

भारत सरकार
अंतरिक्ष विभाग (अं.वि.)
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा - 524124
क्रय एवं भंडार



GOVERNMENT OF INDIA
DEPARTMENT OF SPACE (DOS)
SATISH DHAWAN SPACE CENTRE SHAR
SRIHARIKOTA - 524124
PURCHASE & STORES

फोन नं Ph No. 08623-225-023,127,174 / Fax. 91-8623-225170 / ईमेल e-mail: hps@shar.gov.in

सतीश धवन अंतरिक्ष केंद्र शार **SATISH DHAWAN SPACE CENTER SHAR**
श्रीहरिकोटा **SRIHARIKOTA :: तिरुपति जिला (आ.प्र.) TIRUPATI DISTRICT (A.P)- 524 12**
निविदा सूचना सं. **TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/SMP&ETF/19/2025-2026**

भारत के राष्ट्रपति की ओर से वरि. प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा निम्नलिखित वस्तुओं के लिए ऑनलाइन निविदाएं आमंत्रित करते हैं:- On behalf of President of India, Sr. Head Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites on line quotations for the following.

क्र.सं. SI No	संदर्भ सं. Ref. No.	विवरण Description	मात्रा Qty.
01.	SDSC SHAR/SMP&ETF PURCHASE/SMP&ETF/2026000187 [जन निविदा Public Tender – दो भाग Two Part]	Fabrication & Supply of 4.1m diameter Aluminium alloy vibration test fixture	1 No.

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 23.04.2026 at 16:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 23.04.2026 at 16:00 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 24.04.2026 at 16:00 hrs.

निविदाकार के लिए निर्देश Instructions to Tenderers:

*निविदाएं ईजीपीएस के माध्यम से ही भेजी जाएं तथा कोई निविदा शुल्क लागू नहीं होगा।
Bids shall be submitted on line through EGPS only and No tender fee shall be applicable.*

- कार्य के सम्पूर्ण विवरण/जानकारी तथा नियम व शर्तों इत्यादि के लिए संलग्न अनुलग्नक को देखें। / For full details/scope of work and terms and conditions etc., please see the enclosed annexures.
- इच्छुक निविदाकार इसरो की ई-खरीद वेबसाइट इसरो न्यू ई-प्रोकुरमेंट (www.eproc.vssc.gov.in) से ई-निविदा डाउनलोड और अपनी निविदा ई-खरीद पोर्टल पर ऑनलाइन जमा कर सकते हैं। डाक / वाहक / स्वयं द्वारा प्राप्त निविदाओं पर विचार नहीं किया जाएगा। / Interested tenderers can download the e-tender from ISRO e-procurement website ISRO NEW E-PROCUREMENT (www.eproc.isro.gov.in) and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.
- निविदा दस्तावेज इसरो की वेबसाइट www.isro.gov.in, इसरो न्यू ई-प्रोकुरमेंट वेबसाइट (www.eproc.vssc.gov.in) तथा सतीश धवन अंतरिक्ष केंद्र शार की वेबसाइट www.shar.gov.in पर भी उपलब्ध हैं। इन्हें केवल ई-खरीद पोर्टल से डाउनलोड और निविदा ऑनलाइन जमा कर सकते हैं। / Tender documents are also available on ISRO website www.isro.gov.in ISRO New e-procurement website (www.eproc.vssc.gov.in) and SDSC SHAR, Sriharikota website www.shar.gov.in. The same can be down loaded and offer submitted on line in the new e-procurement portal only.
- निर्धारित तिथि/समय के पश्चात प्राप्त बोलियों पर विचार नहीं किया जाएगा। / Quotations received after the due date/time will not be considered.
- इच्छुक विक्रेता विवरण जानने के लिए निविदा खोले जाने वाले सत्र में शामिल हो सकते हैं। निविदा के मूल्यांकन पर विचार करने के लिए उनकी उपस्थिति अनिवार्य नहीं है। / Interested vendors can attend the Bid opening sessions to know the details. Presence not mandatory to consider the quote for evaluation.
- वरि. प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा के पास किसी भी या सभी निविदाओं को स्वीकार / अस्वीकार करने का अधिकार है। / Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.
- GeM ARPTS Report ID: **GEM/GARPTS/20032026/UIA62FOBG5QS**

दिनांक DT: 20.03.2026

वरि. प्रधान क्रय एवं भंडार
Sr. HEAD PURCHASE AND STORES

**GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA (SDSC SHAR)
NELLORE**

**Tender for Fabrication and supply of 4.1m diameter Aluminum alloy
vibration test fixture as per specification and drawing**

Bids to be submitted online

**Tender No.: SDSC SHAR/SMP&ETF PURCHASE/SH202600025201 dated 24-03-
2026**

A. Tender Details

Tender No : **SDSC SHAR/SMP&ETF PURCHASE/SH202600025201**

Tender Date : **24-03-2026**

Tender Classification: **GOODS**

Purchase Entity : **SMP&ETF PURCHASE**

Centre : **SATISH DHAWAN SPACE CENTRE SHAR SRIHARIKOTA
(SDSC SHAR)**

Fabrication and supply of 4.1m diameter Aluminum alloy vibration test fixture as per specification and drawing

Fabrication and supply of 4.1m diameter Aluminum alloy vibration test fixture as per specification and drawing (GEM/GARPTS/20032026/UIA62FOBG5QS DATED 20.03.2026)

A.1 Tender Schedule

Bid Submission Start Date : **24-03-2026 14:40**

Bid Clarification Due Date : **13-04-2026 14:00**

Bid Submission Due Date : **23-04-2026 16:00**

Bid Opening Date : **24-04-2026 16:00**

Price Bid Opening Date : **29-05-2026 16:00**

B. Tender Attachments

Technical Write-up/Drawings

Document : Tender specification

Instructions To Vendors

2. INSTRUCTIONS TO TWO PART TENDER

1. We are proposing to invite Tenders in Two Parts viz., Part-I Techno and Commercial & Part-II Price. All Tenderers are requested to follow carefully the following instructions before preparing their offer.

PART- I- TECHNO COMMERCIAL BID:

(1) This part should contain detailed Specifications of the items quoted by you along with Technical Literature and Leaflets if any.

(2) All the Commercial terms and Conditions applicable also should be indicated separately under separate heads.

(3) The Commercial terms such as delivery terms, delivery period, payment terms, warranty, validity of the offer, Installation & Commissioning, Duties and Taxes etc shall come into this.

(4) Either Technical Specifications or Terms & Conditions as above should be very clearly reflected items wise with reference to the items called for in the tender.

(5) Please note that Prices should not be indicated in this part.

(6) Any deviations from the Technical Specifications and Commercial Terms shall be indicated separately.

PART II-PRICE BID:

(1) The prices applicable for the items, item wise in response to the tender shall come into this part.

(2) Tender shall indicate very clearly item wise prices with reference to their Technical Offer.

Note: 1. PLEASE NOTE THAT THE OFFERS SUBMITTED CONTRADICTORY TO ABOVE INSTRUCTIONS WILL BE LIABLE FOR REJECTION. PLEASE ENSURE OFFERS ARE SUBMITTED WITHIN THE DUE DATE.

2. BEING TWO PART TENDER, WE REQUEST YOU NOT TO DISCLOSE / INDICATE ANY OF THE PRICE VALUE WHILE SEEKING / PROVIDING CLARIFICATION. YOU SHOULD INDICATE ONLY IN PERCENTAGE. IN CASE IF YOU DISCLOSE ANY OF THE PRICE AMOUNT YOUR OFFER WILL BE REJECTED.

3. STANDARD TERMS & CONDITIONS

1. Tele No.08623-225174/225127/226366.

Fax No.08623-225170/22-5028.

E-Mail ID : hps@shar.gov.in, sselvan@shar.gov.in, srinivas123@shar.gov.in.

1. Instruction to Indigenous Suppliers:

a) Payment Terms shall be as specified in RFP. If not specifically mentioned Our Normal payment term is 100% within 30 days after receipt and acceptance of the item at our site. Please confirm acceptance in your quotation.

b) GST/IGST: Please specify GST percentage and HSN code in your offer. Our GST No. is. 37AAAGS1366J1Z1.

c) Purchase / Price preference to MSEs

Purchase/Price preference will be applicable to the product reservation admissible to the Micro and Small Enterprises. Purchase/Price Preference shall be extended to the MSEs under the Public Procurement Policy for MSEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006. The participating MSEs in a tender, quoting price within the band of L-1 + 15% may also be allowed to supply a portion of the requirement by bringing down their price to the L-1 price, in a situation where L-1 price is from someone other than an MSE. Such MSEs may be allowed to supply up to 25% of the total tendered value. In case of more than one such eligible MSE, the supply will be shared equally.

Micro & Small Enterprises which have technical capability to deliver the goods & Services as per prescribed technical & quality specifications and may not be able to meet the qualification criterion relating to prior experience-prior turnover may be relaxed as per guidelines issued by Ministry of MSMEs & as amended from time to time.

Interested vendors shall specifically claim the benefit with supporting documents.

d) Purchase / Price preference to Make-in-India Products:

Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs. 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in-India) order 2017 dated 16.09.2020. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

2. Instruction to Foreign Suppliers:

a) Payment Terms shall be as specified in RFP. If not specifically mentioned Our normal payment term is SIGHT DRAFT, Please confirm acceptance in your offer, if you insist for L/C, and all bank charges shall be to your account. Confirm acceptance.

b) Please specify whether any export clearance is required in case of an order on you.

c) Warranty/Guarantee applicable for the item shall be mentioned in your offer

d) Special Certification for packing Material : as per Plant Quarantine (Regulation of Control into India) Order 2003, Articles packed with packing material of plant origin viz., hay, straw, wood shavings, wood chips, saw dust, wood waste, wooden pallets, Dunn age Mats, wooden packages, coir pith, pear or

sphagnum moss etc., will be allowed entry by Customs only with a Phytosanitary Certificate. In case if a Purchase Order, if you propose to us any of the above material for packing such a certificate issued by your local Plant Quarantine Authority shall be furnished.

e) Confirm whether any Export License is required and for which End User Certificate is to be provided by us, in case of an Order on you. (Enclose format for EUC, if applicable)

f) Either Indian Agent on behalf of the foreign principals or the foreign principal directly can quote against this order, but not both. In either case an Indian agent cannot represent more than one principal against the same tender.

g) In case the quote is in INR we prefer to execute the same on HSS Basis and for which Concessional Customs duty as per Notification no.50/2017 Customs dated 30.06.2017, Serial No.539(A) as amended by Notification no.05/2018 dated 25.01.2018. In case the quote is on Indian Rupee (Outside High Sea Sale), the price shall include taxes and duties if any. We shall not able to provide any duty or IGST tax exemption/concession certificates. If the item quote is of USA make, please quote for all-inclusive price since we prefer to get the item on FOR destination basis.

h) Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with Competent Authority as specified in Office Memorandum no.F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23rd July 2020. All the conditions mentioned in the above OM is applicable for this tender.

Common terms to Indigenous and foreign suppliers:

3.Warranty

You shall provide applicable warranty for the items offered by you without fail. For the applicable period you shall provide necessary warranty certificate.

4.Performance Bank Guarantee

Towards the performance of the systems during the warranty period you shall submit a performance bank guarantee equivalent to 3% of the order value to cover the warranty period. This PBG shall be interest free and the same shall be returned to you on successful completion of all contractual obligations. The said PBG shall have a further claim period of 2 months.

5.Security Deposit

On acceptance of the order, you shall submit an interest free amount equivalent to 3% of the total contract/order value towards security deposit. This security deposit is collected towards the performance of the Contract. The said Security Deposit shall be submitted either in the form of Bank Guarantee/Demand Draft/FDR receipts duly endorsed in the name of the centre. The Security Deposit will be returned to you on successful completion of the Contractual obligations; failing which it shall be forfeited/adjusted.

6.Offer Validity

Your offer shall be valid for 120 days in case of 2 part / 90 days in case of single part from the date of tender opening. In case you offer validity is less than the mentioned above, the said offer is liable for rejection which may please be noted.

7. Liquidated Damages:

If you fail to deliver the ordered items satisfactorily within the time specified or any extension thereof, Liquidated Damage @ 0.5%(zero point five percent) of the order value or part thereof the un-delivered items for each calendar weeks of delay shall be recovered from your bill. However total Liquidated Damage shall not exceed 10% (ten percent) of the order value.

FORCE MAJEURE:

Should a part or whole work covered under this contract be delayed in delivery/completion of work due to reasons of Force majeure which shall include legal lockouts, strikes, riots, civil commotion, fire, accidents, quarantines, epidemic, acts of God & War, stoppage of deliveries by the Government , freight embargoes etc; the delivery period/completion of work referred to in this Contract shall be extended by a period not in excess of duration of such Force Majeure. The occurrence shall be notified by either party within reasonable time.

8. Offers received through post, courier, fax or email will not be considered.

9. Technical and commercial bid (Part-I) shall not contain any price details. Optional accessories or other price details, if any shall be uploaded in Supporting documents related to Price Bid, to be opened along with Price Bid.

10. In respect of FIM being issued, the fabricator shall submit Bank Guarantee for equivalent sum compulsorily. In case, submission of Bank Guarantee is not possible, the reasons there for shall be clearly mentioned. However, for such cases the fabricators at their cost shall secure such FIM through Insurance Policy with Director, SDSC SHAR as beneficiary. In case of PSU and Government Organization, Indemnity Bond in lieu of Bank Guarantee is acceptable. Balance FIM/Scrap, if any shall be returned along with the supply of the items. Please confirm acceptance in your quotation.

11. SDSC SHAR shall have the right to place part order among the parties for the items for which they are the lowest.

12. Arbitration:

In the event of any dispute/s, difference/s or claim/s arising out of or relating to the interpretation and application of the Contract, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Offices of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre only.

Work under the Contract shall be continued by the CONTRACTOR during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the DEPARTMENT or unless the matter is such that the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.

4. Instruction to Vendors

1. Instructions to tenderers

TeleNo.08623-225127/6366

Fax No.08623-22-5028

e-Mail ID : hps@shar.gov.in, sselvan@shar.gov.in, keshavamurthy.sr@shar.gov.in

1) Interested tenderers may, at their option, login to <https://eproc.vssc.gov.in> and submit your offers.

2) TENDER FEE IS NOT APPLICABLE.

3) EARNEST MONEY DEPOSIT IS NOT APPLICABLE IF NOT MENTIONED IN THE RFP SPECIFICATION.

4) Indian agents while quoting on behalf of their principals are requested to attach Principals original quote, necessary authorization letter from their Principals, copy of agency agreement etc. in their bid.

5) TWO PART BIDS: In case of Two part tender, price details shall not be uploaded in the Technical & Commercial Bids (Part I), failing to which the bid will be treated as INVALID.

6) The offer should be valid for a minimum period of 120 days for 2 part / 90 days for single part from the date of opening.

7) Due date & time: Sufficient time has been allotted for Bid submission. Vendors are requested to complete Bid submission well in advance. Last minute requests for due date extension citing server problems etc. will not be entertained. Bids will not be entertained after the due date and time.

7)(A). Request for the extension of the due date will not be considered.

8)(a) Bid Opening for Public Tender: In case of Public Tender-Two Part Tenders: Technical and Commercial Bids will be opened on the first day specified for Tender opening. Interested vendors can attend the tender opening session to know the bidding details (Bidders presence is not mandatory to consider the quote for evaluation). Price Bid opening of the selected vendors will be scheduled later and it will be intimated to the selected Bidder (s).

(b) For Limited Tender: Bidders participation is not allowed.

9) Prices are required to be quoted according to the units indicated.

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

11) (a) All available technical literature, catalogues and other data in support of the specifications and detail of the items should be furnished as attachments.

(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 non-acceptance 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 dimensions details are available the same should be indicated in your offer.

(d) Specifications: Stores offered should strictly conform to our specifications. Deviations, if any, should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples wherever necessary. Test certificates wherever necessary should be attached. Whenever options are 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.

12) 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 portion of quantity offered and the tenderers shall supply the same at the rates quoted.

13) All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.

14) The tenderer will be required to furnish a document containing the name of his bankers as well as the latest income-tax clearance certificate duly counter signed by the Income-tax Officer of the Circle concerned under the Seal of his office, if required by the Purchaser.

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

16) Sr. Head, Purchase and Stores, SDSC SHAR SRIHARIKOTA reserves the right to accept or reject any bid in part or full without assigning any reason thereof.

17) Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with Competent Authority as specified in Office Memorandum no.F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23rd July 2020. All the conditions mentioned in the above OM is applicable for this tender.

C. Bid Templates

C.1 Technical Bid - Fabrication and supply of 4.1m diameter Aluminum alloy vibration test fixture as per specification and drawing

1. Vibration test fixture - Fabrication & supply of 4.1m diameter Aluminum alloy vibration test fixture as per specification and drawing

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Warranty	Warranty of 1 year has to be provided against any manufacturing defects from the date of delivery & final acceptance at SDSC SHAR	Yes / No / Explain		
2	Technical specification compliance	Signed (Authorized signatory with seal), filled and scanned copy of technical specification and drawings should be submitted by the party along with the tender offer as part of compliance and acceptance of technical specification.	Yes / No / Explain		
3	Delivery	The item should be delivered within 26 weeks from the date of release of purchase order	Yes / No / Explain		

Supporting Documents required from Vendor

1. Signed (Authorized signatory with seal), filled and scanned copy of technical/tender specification and drawings should be submitted by the vendor along with the tender offer as part of compliance and acceptance of technical/tender specification

2. Supporting documents for vendor's annual financial turnover not less than 500 Lakhs during the past three financial years ending by 31.03.2026

3. supporting documents for execution of one similar work for value not less than Rs 70 Lakhs

or two similar works for value not less than 50 Lakhs or three similar works for value not less than 30 Lakhs

4. Supporting documents for confirming that, they have previous experience in fabrication and welding of components of minimum size of 2.4m using Aluminium alloys

5. Supporting documents for confirming that, they are an organization with experience of more than 5 years as on 31.03.2026, in executing similar kind of fabrication work with any material to various Organizations.

6. DOCUMENTS

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	<p>Delivery Term: Please quote your rates on FOR- SDSC SHAR, Sriharikota basis including P&F & freight charges. If you quote YES or ACCEPTED or NOTED or AS PER TENDER SPECIFICATIONS, it means your prices are FOR- Sriharikota basis including P&F and FREIGHT charges. Even if you quote P&F and FREIGHT charges are extra in price bid or at any other place, this only holds good.</p> <p>Note:Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p>	Yes / No / Explain	
2	<p>Taxes: GST if any, please mention percentage (HSN/SAC code shall be indicated for each item and accordingly). As per Ministry of Finance Dept. of Revenue Notification No. 25/2018 Integrated Tax (Rate) (Schedule-I, Sl. No. 243B) (Amendment to Notification No. 7/2018-Integrated Tax (Rate) dated 25.01.2018 and Notification No. 1/2007-Integrated Tax (Rate) dated 28.06.2017) for raw materials, spares, tools and consumables etc., required for launch vehicles applicable GST is 5%. We will issue IGST certificate. Note: Suppliers are requested to explicitly state whether Quoted percentage/amount is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost.</p> <p>Note:Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p>	Yes / No / Explain	
3	Please mention your GST registration details & enclose a copy of GST Registration. GST No. for SHAR- GSTIN: 37HYDF00385A1DZ	Yes / No / Explain	
4	In case of Specific Brand items, Please provide Authorization certificate from OEM.	Yes / No / Explain	

5	<p>As per Notification No. 05/2018 CUSTOMS Dtd. 25.01.2018 ISRO is eligible to reduced rate of customs duty @ 10.775% (CD@5% plus Surcharge@10% plus IGST@5%). In case of foreign component involved, We will provide Customs Duty Exemption Certificate in case of Import Orders/ imported supplies/ High Sea Sales. In this connection, tenderer has to provide the following.</p> <p>(i) Please indicate whether your rate is inclusive of this Customs duty @ 10.775% or extra. (ii) what would be the percentage of foreign exchange component you have considered in your quote. (iii) List of items with approximate quantities which require customs duty exemption certificate to be provided. Note: Suppliers are requested to explicitly state whether Quoted percentage is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost. Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p>	Yes / No / Explain	
6	<p>Installation Charges, if any, (Please mention the percentage). Note: Suppliers are requested to explicitly state whether Quoted percentage is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost. Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.</p>	Yes / No / Explain	
7	<p>Delivery Term:- FOR :SDSC SHAR, Sriharikota In case of Foreign orders, FOB or FCA or EX-WORKS. Note: Suppliers are requested to explicitly state whether Quoted Delivery Term as FOR-SHAR / Ex-Works Etc.. If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as FOR-SHAR. Further clarification will not be sought.</p>	Yes / No / Explain	

8	Delivery Period: Within 26 weeks from the date of release of PO.	Yes / No / Explain	
9	Liquidated Damages (LD) :- Since delivery is the essence of this order, LD @ 0.5% per week or part thereof subject to a maximum of 10% of the order value for the delayed period of supply/ scope of work.	Yes / No / Explain	
10	Freight charges, if any. If YES please mention the percentage Note: Suppliers are requested to explicitly state whether Quoted percentage is Extra or Inclusive, If Not i.e, if you quote as "YES/Accepted /Noted/ As per tender specifications" it will be treated as included in the quoted basic cost. Please note that in Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.	Yes / No / Explain	
11	Warranty:- Warranty for the offered item shall be from the from the date of delivery & acceptance at SDSC SHAR for a minimum period of one year	Yes / No / Explain	
12	Performance Bank Guarantee (PBG) :- You have to submit a PBG from a Nationalised / Scheduled Bank for 3% of the order value at the time of supply valid till the completion of warranty period plus 60 days towards claim period. [The said percentage reconsideration shall be based on guidelines issued by Govt. of India, from time to time]	Yes / No / Explain	
13	Security Deposit (SD) :- 3% value of the order shall be deposited with SDSC within 10 days from the date of the Purchase Order towards security deposit in the form of Bank Guarantee towards performance of the Contract valid till completion of the contract period plus sixty days towards claim period. (This will be returned by SDSC immediately on execution of the order satisfactorily as per order terms. If not, the amount will be forfeited). NOT REQUIRED FOR LANDED COST BELOW RS.5 LAKHS. [The said percentage reconsideration shall be based on guidelines issued by Govt. of India, from time to time]	Yes / No / Explain	

14	In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 3% of the Order value valid till the completion of total contractual obligation (i.e., Supply period plus warranty period plus 60 days). Please confirm. [The said percentage reconsideration shall be based on guidelines issued by Govt. of India, from time to time]	Yes / No / Explain	
15	Payment Term :-Please choose any one of the below. a) Payment of 100% within 30 days after satisfactory pre-delivery inspection, delivery, site acceptance tests and final acceptance at SDSC SHAR. b) Advance of maximum 30% of PO value against submission of Advance BG for equal amount, 50% of balance 70% will be paid after receipt of the item at SDSC SHAR after satisfactory pre-delivery inspection. Remaining payment will be cleared within 30 days after site acceptance tests and final acceptance at SDSC SHAR and submission of Performance Bank Guarantee	Yes / No / Explain	
16	Validity of Offer :- The validity of the offers / tenders should be 120 days from the date of opening of the tenders. Tenders shorter than offer validity mentioned above will not be considered for evaluation.	Yes / No / Explain	
17	Please provide valid/currently using E-mail Id & Contact no. for seeking further clarifications if any	Yes / No / Explain	
18	Insurance :- Being a Govt. Of India Dept., Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper transport worthy packing.	Yes / No / Explain	
19	Remarks if any	Yes / No / Explain	

20	<p>For this procurement, bids from Class-I & class-II Local Suppliers are admissible. Hence provisions contained in Public Procurement (Preference to Make in India), Order 2017 issued by Department for Promotion of Industry and Internal Trade (DIPP), Ministry of Commerce & Industries vide letter No. P-45021/2/2017-PP(BEII) dated 04.06.2020 and subsequent amendment & directives shall be followed.</p> <p>(a) Class-I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50%, as defined under order. (b) Class-II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content more than 20% but less than 50%, as defined under this Order. IT IS ALSO REQUESTED TO PROVIDE MII CERTIFICATE FOR PROVING THE PERCENTAGE OF LOCAL CONTENT.</p>	Yes / No / Explain	
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21	<p>Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 plus 15% (Selected by Buyer) of margin of purchase preference/price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total QUANTITY. Clearly specify whether you are eligible for MSE Preference. If YES, supporting documents shall be uploaded.</p>	Yes / No / Explain	
22	<p>PLEASE CONFIRM CLEARLY WHETHER YOUR QUOTED PRICE IS INCLUSIVE OF GST (OR) EXTRA, FOR CONSIDERATION OF YOUR OFFER FOR FURTHER EVALUATION.</p>	Yes / No / Explain	
23	<p>PLEASE MENTION THE NAME AND ADDRESS ON WHICH THE PURCHASE ORDER TO BE PLACED, IN CASE THE ORDER ON YOU.</p>	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
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1	Vibration test fixture - Fabrication & supply of 4.1m diameter Aluminum alloy vibration test fixture as per specification and drawing	1.00 Nos.				
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Common charges (Applicable for all items)

P&F CHARGES	
FREIGHT CHARGES	

SPECIFICATIONS FOR FABRICATION & SUPPLY OF 4.1m DIAMETER ALUMINIUM ALLOY VIBRATION TEST FIXTURE

1. Introduction:

The 4.1m diameter fixture is required to be made of AA 6061 T6 aluminium alloy material and will be used for vibration testing of launch vehicle components. The fixture should be 4.1m in diameter and 0.45m in height. It should consist of a top plate and bottom plate connected together using a conical shell. The fixture should be stiffened inside and outside using plate stiffeners. The mass of the fixture will be 1060 kg approximately.

2. Scope of the Vendor:

- Fabrication of 4.1m diameter Aluminium alloy vibration test fixture as per the details, specifications and drawing given in the table below and following sections
- Painting of the fixture and carrying out factory & site acceptance tests
- Packing & delivery of the fixture to SDSC SHAR

S.No	Assembly/ Component	Drawing Number	Material	Overall size	Approx weight in Kg	Qty (Nos)
1	4.1m diameter Aluminium alloy vibration test fixture	VTF-FIX-2026-1	AA 6061 T6	4100mm diameter, 450mm height	1060	1

3. Vendor qualification criteria

The vendors will be evaluated and qualified based on the following criterion. ***The offers of only the qualified vendors will be considered for bid evaluation and order placement.***

- Vendor shall be an organization with experience of 5 years or higher as on 31.03.2026, in executing similar kind of fabrication work with any material of construction to the Central/State Govt/ Public sector/Major Private Registered Organizations.
- The vendor should have previous experience and proven heritage in fabrication and welding of components of minimum size of 2.4m using Aluminium alloys.
- The vendor should have executed one similar work for value not less than Rs 70 Lakhs or two similar works for value not less than 50 Lakhs or three similar works for value not less than 30 Lakhs.
- Vendor shall provide the contract / purchase order copy and (or) work completion certificates with details for the orders executed as stated above
- The Vendor's annual financial turnover shall be not less than ₹500 Lakhs during the past three financial years ending by 31.03.2026
- Based on the documents submitted in technical bid, if required, personnel from SDSC SHAR may make an inspection visit to vendor's factory or have an online discussion/inspection with the vendor for evaluating the vendor.

4. Delivery Schedule:

Fabrication and delivery of vibration fixture to SDSC SHAR should be completed **within 26 weeks** from the date of release of Purchase order.

5. Manufacturing Terms & Conditions and Technical compliance

S. N	Description	Terms & conditions	Remarks	Vendor compliance
1.	Raw material testing – Mechanical & Chemical properties, NDT	<p><u>Mechanical</u></p> <ul style="list-style-type: none"> - Six numbers of test coupons (2 nos - tension, 2 nos - compression, 2nos - shear) to be prepared as per the standard from all the raw material samples of different thicknesses being used and the mechanical properties should be evaluated at a certified and recognized laboratory. - Six numbers of test coupons (2 nos - tension, 2 nos- compression, 2nos - shear) with weld joint and subjected to stress relieving heat treatment has to be tested for evaluating the mechanical properties of the weld joint. <p><u>Chemical</u></p> <ul style="list-style-type: none"> - Chemical composition of the raw material sample for all plate thickness should be evaluated at a certified and recognized laboratory <p><u>Non destructive testing</u></p> <ul style="list-style-type: none"> - Ultrasonic/Radiographic testing has to be carried out for all the raw material plates of different thicknesses for ensuring defect free raw material 	<p>Test reports & certificates should be furnished. Mechanical, chemical & NDT test certificates, whichever applicable to be produced before start of fabrication.</p>	
2.	Fabrication – Metal cutting & fitting (Number of segments)	<p>The top plate, bottom plate and conical shell as shown in the drawing shall be strictly made using the required number of segments as mentioned below</p> <ol style="list-style-type: none"> 1) Bottom plate – Single plate (Single forged ring, No segments are allowed) 2) Conical shell – From a maximum of 5 segments joined using butt welding, 3 segments is most preferable 3) Top plate - From a maximum of 5 segments joined using butt welding, 3 segments is most preferable 4) The individual segments should be of equal size 5) The individual segments of conical shell & top plate are to be positioned/oriented in such a way to make it symmetric with 		

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

		<p>respect to X & Y axis or at least X axis as per the drawing</p> <p>6) The orientation of individual segments should be discussed with SDSC SHAR before start of fabrication</p>		
3	Cutting & Machining of individual plates	<ul style="list-style-type: none"> - The individual plates to be used for top, bottom, conical plate and stiffeners have to be cut and machined to the required dimensions as per the drawing - Required extra material / thickness to be maintained wherever necessary considering the final machining of top and bottom surface of the fully welded/fabricated fixture - The bottom plate has to be machined to the required dimension from a 80mm thick single forged plate as per the drawing 		
4	Welding	<ul style="list-style-type: none"> - The fixture is made of AA 6061 T6 material. Suitable welding methodology and technique has to be followed for Welding of AA 6061 T6 base fixture. - Complete details viz. type of welding, weld geometry and welding rods used shall be provided in prior for department approval - All sharp edges shall be chamfered as per standard practice. - Welding shall be done by experienced and certified welders, who have been qualified by tests in accordance with IS: 817 – 1966 and having prior experience in Aluminium alloy welding. - Welding scheme for the fabrication of top and bottom plate are to be followed strictly as per the drawing - Welding has to be done using suitable attachments wherever applicable, in a controlled and intermittent manner so as to avoid warpage. Heat affected zones near the welds have to be minimized to retain the mechanical properties and also to avoid warpage. - Weld bead shape, penetration, adequate throat thickness of fillets shall be maintained as per standard practice. - Following weld inspection shall be performed through an approved testing laboratory. <p>➤ Die penetrant test has to be performed</p>	<p>Welder Certificate, Die penetrant and Radiography test certificates to be provided</p>	

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

		<p>on all weld joints.</p> <ul style="list-style-type: none"> ➤ RT (radiography testing) to be performed on bottom plate-to-conical shell circular weld joint ➤ RT to be performed on the top plate and conical shell segment weld joints <p>- Wherever welded attachment shall be used to facilitate fabrication, the same shall be removed carefully by cutting or chipping and the surface of material shall be finished smooth by grinding. Hammering shall be avoided.</p> <p>- <i>Welding & positioning of individual segments should be planned accordingly to achieve Center of Gravity (CG) of the fixture within +/-10mm with respect to both X and Y axis as per the drawing.</i></p>		
5	Heat treatment	<ul style="list-style-type: none"> - Heat treatment of the fully fabricated fixture has to be carried out as per the standards for AA 6061 T6 alloy. - Heat treatment has to be carried out after all the fabrication and welding activities to relieve the residual stresses induced. - Six numbers of test coupons (2 nos - tension, 2 nos - compression, 2 nos - shear) with welding joint should also be subjected to stress relieving heat treatment along with the vibration fixture for evaluating the mechanical properties of the weld joint. 	Test Certificate to be provided	
6	Machining	<ul style="list-style-type: none"> - After completion of all welding activities & heat treatment, top and bottom faces of the fixture has to be machined to achieve the required geometric dimension, parallelism, flatness and other features mentioned in the drawing. 		
7	Drilling	<ul style="list-style-type: none"> - The holes at different PCDs on the top and bottom plates have to be drilled after the final machining of the fully fabricated fixture as per the drawing. - During PCD drilling on top flange and bottom flange, if any stiffener is interfering, the vendor has to provide a M20xM12 threaded solid insert at those locations for a thread depth of minimum 20mm. Material removal on stiffener along the insert axis to be done if necessary. - Spot facing has to be done on the bottom 	Details of hole dimensions & PCD details, if available from drilling machine shall be provided	

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

		<p>face of top plate with a diameter of 27mm on all the 90 holes of 3240mm PCD to a maximum depth of 0.2mm</p> <ul style="list-style-type: none"> - The tolerances mentioned in the drawing should be strictly adhered. - Spot facing has to be done for 4030 and 2400 PCD holes for a depth of 0.2mm, if necessary 		
8	Dimensional inspection (using CMM)	<ul style="list-style-type: none"> - After the completion of fabrication, heat treatment, machining and drilling, the fixture has to be inspected using CMM (Coordinate Measuring Machine) for all the geometrical dimensions as per the drawing. Any other measurements not mentioned in the drawing, informed later and essential for ensuring the fabrication compliance should also be measured. - The CMM should have valid calibration certificate from an authorized and recognized laboratory - The accuracy of CMM used should be 60 micro meter or lesser. The CMM used should be capable of measuring/handling 4.1m diameter fixture - The vendor should intimate the date of CMM inspection in prior. SDSC SHAR personnel may visit and participate during the CMM inspection. - Vendor should submit the dimensional inspection report. The dimensional inspection reports should consist of all the dimensions mentioned in the drawing and other dimensions if required by SDSC SHAR - The report should have a tabulation of required dimension as per drawing and actually measured dimension along with tolerances for all the dimensions mentioned in the drawing. - If any dimensional deviations are found during inspection, the vendor has to rectify the same and carry out the dimensional inspection again until the deviation is rectified - CMM inspection to be carried out with sufficient number of measurement points wherever applicable 	CMM inspection report to be submitted. CMM calibration certificate to be provided	
9	Weight & CG measurement	<ul style="list-style-type: none"> - The weight of the fixture should be measured using a calibrated weighing scale with an accuracy of +/- 5kg or 		

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

		<p>lesser and reported</p> <ul style="list-style-type: none"> - The CG (Center of Gravity) of the finished fixture should be measured using suitable technique applicable for such a bigger fixture and the same should be reported 		
10	Pre-delivery inspection	<ul style="list-style-type: none"> - Vendor has to inform SDSC SHAR with minimum 1 week advance for participating in the pre-delivery inspection (Factory acceptance tests at Vendors site) as per the details given in section-6 below. Detailed inspection plan will be shared to the vendor upon intimation. - SDSC SHAR personnel will visit vendor's factory on a mutually agreed date and inspect the fixtures in all respects. Vendor should arrange suitable measurement setup (CMM and other instruments necessary) for accurately inspecting larger diameters, flatness, parallelism and other critical tolerance parameters. Vendor should produce the dimension report and the necessary documents as mentioned in Section 6.1. - Any deviations in the fixture found during inspection have to be rectified by the vendor. - Clearance for transportation of the fixtures will be provided by SDSC SHAR based on the inspection result & specification compliance only. 		
11	Painting	<ul style="list-style-type: none"> - Painting should be done with two coats of primer and a single coat of paint - Paint colour will be finalized by SDSC SHAR at the time of inspection at vendor factory - The surfaces of the fixture should be prepared properly before painting - All holes, bolt head & washer contact areas on all PCDs should not be painted and the same should be masked before painting - The top surface of the top plate and bottom surface of the bottom plate should be painted with one coat of primer only - Painting should be done only after pre-delivery inspection by SDSC SHAR at vendor site 	Dimensional inspection report to be submitted	
12	Fixture	<ul style="list-style-type: none"> - Brackets (4nos) made of mild steel for 		

	handling brackets	<p>lifting the fixture using crane has to be fabricated and provided by vendor.</p> <ul style="list-style-type: none"> - Each bracket should have provision to be assembled to the fixture top plate using two adjacent 13mm diameter holes at 4030PCD. - Each bracket shall have hole provision for inserting D shackle 		
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6. Quality Inspection plan

6.1. Factory acceptance tests at Vendor’s factory

- SDSC SHAR may make multiple inspection visits to factory site during fabrication, machining, drilling and CMM inspection. Vendor has to update SDSC SHAR regularly about the status of the activities with photographs
- SDSC SHAR personnel will visit vendor’s factory for the final inspection for carrying out factory acceptance tests on a mutually agreed date and inspect the fixtures in all respects
- The vendor should produce the following certificates and reports to SDSC SHAR personnel
 - Material test certificates (chemical composition) for all raw material plate batches
 - Mechanical test certificates for raw material coupons from all the raw material samples of different plate thicknesses used(2 nos - tension, 2 nos - compression, 2nos - shear)
 - Mechanical test certificates for welded coupons (2 nos - tension, 2 nos - compression, 2nos - shear)
 - Material test certificates (Ultrasonic/Radiographic) for all raw material batches
 - Welder certificate
 - Die penetrant test certificate for all the weld joints.
 - RT (radiography) test certificate for the bottom plate to conical shell circular weld joint
 - RT test certificate for the top plate and conical shell segment weld joints
 - Stress relieving heat treatment test certificate
 - Dimensional inspection report (Inspection using CMM)
 - CMM calibration certificate
 - Fixture weight and CG details
- Any specification deviation found during the inspection has to be rectified by the vendor and the cost for the same should be borne by the vendor.
- Clearance for despatch & delivery will be given by SDSC SHAR based on factory acceptance test results only

6.2.Site acceptance tests At SDSC SHAR

- The vibration test fixture upon receipt at SDSC SHAR, will be inspected thoroughly for all the dimensions again and any transportation related damages. Any damage found during inspection has to be rectified by the vendor and the cost for the same should be borne by the vendor.

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

- The vibration test fixture will be assembled on vibration table/ slip plate (which is having the three mounting PCDs 2, 2.2 and 2.4m with 60 number of holes each) for verifying the base plate PCDs.
- Similarly, for verifying the top plate PCDs, fixtures with 3.24m PCD and 4.03m PCD with the required number of holes will be assembled and verified.
- The following vibration tests will be carried out as part of qualification & workmanship evaluation. The tests are to be carried out in slip table mode using dual shaker system by SDSC SHAR. The resonance survey responses of the fixture before and after sine and random vibration tests will be compared and evaluated.
 - Sine resonance survey, 5-2000 Hz, 0.2g, 2 Oct/min, with 4 point fixture base control
 - Random resonance survey, 20-2000 Hz, 0.45 grms, 30 seconds duration, with 4 point fixture base control
 - Sine vibration test, 5-100 Hz, 5g max, 2 Oct/min, with 4 point fixture top control
 - Random vibration test, 20-2000 Hz, Overall grms: 10.45, 30 seconds duration, with 4 point fixture top control
 - Sine resonance survey, 5-2000 Hz, 0.2g, 2 Oct/min, with 4 point fixture base control
 - Random resonance survey, 20-2000 Hz, 0.45 grms, 30 seconds duration, with 4 point fixture base control
- *A vendor representative/engineer should be present at SDSC SHAR during the dimensional inspection and all the site acceptance tests mentioned above*
- Any specification deviation issues found during the dimensional verification, assembly, interface verification and qualification tests has to be rectified by the vendor and the cost for the same should be borne by the vendor.

7. Documents to be submitted by the vendor

7.1 During tender submission

- Signed (Authorized signatory with seal), filled and scanned copy of technical specification and drawings should be submitted by the vendor along with the tender offer as part of compliance and acceptance of technical specification.
- The vendor should submit supporting documents for confirming that, they are an organization with experience of more than 5 years as on 31.03.2026, in executing similar kind of fabrication work with any material of construction to the Central/State Govt/ Public sector/Major Private Registered Organizations.
- The vendor should submit supporting documents for confirming that, they have previous experience in fabrication and welding of components of minimum size of 2.4m using Aluminium alloys.
- The vendor should provide supporting documents (contract / purchase order copy and (or) work completion certificates) towards execution of one similar work for value not less than Rs 70 Lakhs or two similar works for value not less than 50 Lakhs or three similar works for value not less than 30 Lakhs.
- Supporting documents for vendor's annual financial turnover not less than ₹500 Lakhs during the past three financial years ending by 31.03.2026

7.2 After order placement

- Vendor should submit the detailed manufacturing sequence, welding details and procedure document within two weeks from the date of release of purchase order. SDSC SHAR will review the same, suggest changes if any and provide approval within a week for start of the manufacturing.
- Vendor should submit the following certificates to SDSC SHAR before start of fabrication activities as part of raw material approval. SDSC SHAR will review the same and provide approval for start of the fabrication activities.
 - Material test certificates (chemical composition)
 - Mechanical test certificates for raw material coupons (2 nos - tension, 2 nos - compression, 2nos - shear)
 - Material test certificates (Ultrasonic/Radiographic)) for raw material
- The remaining certificates as per section 6.1 should be submitted after completion of fabrication, heat treatment, machining and drilling activities before/during final inspection at vendor site for carrying out factory acceptance tests

8. Tender Terms & conditions

- *This is a two part tender consisting of technical bid (Part-1) and price bid (Part-2). Technical bid (Part-1) should contain technical details covering all the technical aspects along with necessary technical attachments / literature/ documents and commercial terms & conditions (without prices). Price bid (Part-2) should contain only the commercial price bid along with the commercial terms and conditions.*
- Firstly, only the technical bid will be opened and evaluated. After evaluation of the technical bid only, the price bid of technically qualified vendors will be opened and considered for further evaluation and order placement. The vendor should provide the offer price only in the price bid. The vendor should not disclose the offer price in any form in the technical bid, failing which the offer will be rejected and will not be considered for further processing.
- Based on the documents submitted in technical bid, if required personnel from SDSC SHAR may make an inspection visit to vendor's factory or have an online discussion/inspection with the vendor for evaluating the vendor, verifying the information provided by the vendor in the technical bid and other infrastructure facilities claimed. The vendor may be evaluated and qualified based on the inspection results. The technical bid of the vendor, who is not able to satisfy the technical requirements mentioned in this tender is liable to be rejected.
- It is mandatory that vendor should reply to all the specifications/parameters as per our tender specification, with numerical values wherever applicable and wherever being asked with all applicable documentation. Proposal without these details will not be considered.
- Vendor shall be ready to give a techno-commercial presentation if required during the technical bid evaluation (Part-1) at SDSC SHAR or in online mode. The vendor shall be intimated one week in advance for this presentation. This intimation may be sent to the vendor only after technical evaluation of the proposal and if it is found technically suitable.

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- Purchaser reserves the right to accept or decline any bid without assigning any reason. Such decisions by the Purchaser shall bear no liability on the Purchaser whatsoever consequent upon such decision.
- Purchaser shall not be obliged to furnish any information / clarifications to unsuccessful Vendors regarding non-acceptance of their bids.
- Vendor shall fill the price bid as per the below table in Section 9. Total project is considered as a single package only. No split orders are considered.

9. Price bid format

The vendor should submit the price bid in the following format

Item description	Category	Cost / Option	Remarks
Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture as per specification	Fabrication		-
	Painting		-
	Delivery		-
	Tax (with GST %)		5% GST is preferred. 5% GST certificate will be provided by SDSC SHAR
	Total cost		-
Payment terms option chosen by vendor (Option-1 or Option-2 as per Section 10) :			-

10. Payment terms

- Vendor has to comply for one of the two payment options mentioned below and has to clearly mention in the Part-1 (techno-commercial bid) as well as in Part-2 (Price bid) about which option of payment terms is chosen for the submitted offer.
Option-1: Payment of 100% within 30 days after satisfactory pre-delivery inspection, delivery, site acceptance tests and final acceptance at SDSC SHAR.
Option-2: Advance of maximum 30% of PO value against submission of ABG, 50% of balance 70% will be paid after receipt of the item at SDSC SHAR after satisfactory pre-delivery inspection. Remaining payment will be cleared within 30 days after site acceptance tests and final acceptance at SDSC SHAR and submission of Performance Bank Guarantee
- Note: (1) Wherever advance payment is requested, bank guarantee from any commercial Bank should be furnished. (2) After drawl of advance payment, if the vendor/vendor is not supplying the material within the delivery schedule, the advance amount will be recovered and interest will be levied as per the Bank Lending Rate plus 2% penal interest. (3) In case of any delay attributable to the contractor/vendor in effecting the supply after the prescribed delivery date. Interest at MCLR of SBI will be charged for the period beyond the specified delivery date, on the amount of balance advance payment.
- Payment will be processed only if the fixture is free from transportation related damages and the dimensional verification at SDSC SHAR is found satisfactory. If any

deviations or issues are found, vendor has to arrange for the rectification of the same, without which payment will not be cleared.

11. General Terms & Conditions

- The fixtures shall conform to the technical requirements covered in this specification and the relevant manufacturing/approved drawings/standards in respect of dimensions, sizes, material of construction, manufacturing, inspection, testing, painting, marking, packaging and delivering at SDSC SHAR.
- Conformance to specification & dimensions is the sole responsibility of the vendor
- *During the course of execution of the work/order, the department has the right to modify design/drawing, award additional work or deletion of work or advice removal/repair/re-fabricate the work already executed, which can account up to 10% of total value of the order. Vendor shall note & plan accordingly.*
- Vendor may suggest any improvement for the betterment of the fabrication, which shall be reviewed by SDSC-SHAR as necessary.
- Vendor shall clearly indicate any assumption made in respect of specification, data or any other details that have not been mentioned in this tender but considered necessary for meeting the specified requirements. Any such assumptions not indicated during tendering stage, will not be binding on department.
- Tolerances in fabrication of structural components shall be maintained as specified in the relevant drawings. However, where no such tolerances are specified in the drawing tolerances shall conform to IS 7215: 1974.
- Welding shall be done by experienced welders, who have been qualified by tests in accordance with IS: 817 – 1966.
- Wherever welded attachment shall be used to facilitate fabrication, the same shall be removed carefully by cutting or chipping and the surface of material shall be finished smooth by grinding. As far as possible, hammering shall be avoided.
- All sharp edges shall be chamfered as per standard practice.
- Corner welds (Fillet) shall be finished/dressed neatly.
- Weld bead shape, penetration, adequate throat thickness of fillets shall be maintained as per standard practice.
- Vendor has to execute the work in a time bound manner and shall complete the work in stipulated time as specified in delivery schedule. Any delay in the completion of work as per the agreed time schedule will attract L.D. charges.
- The raw material used for the fabrication of fixture shall be recently manufactured and should be free from corrosion/pitting/ any other defects.
- Re-rolled plates should not be used for fabrication.
- The fixtures will be accepted and payment will be done only if the item is as per specification. If there are deviations found, the items will be rejected.
- The vendor shall be solely responsible for obtaining necessary clearances, if any, from various statutory bodies including those of central & state government, as applicable, during the course of manufacture/fabrication, transportation of the system to SDSC-SHAR.

Fabrication & supply of 4.1m diameter Aluminium alloy vibration test fixture

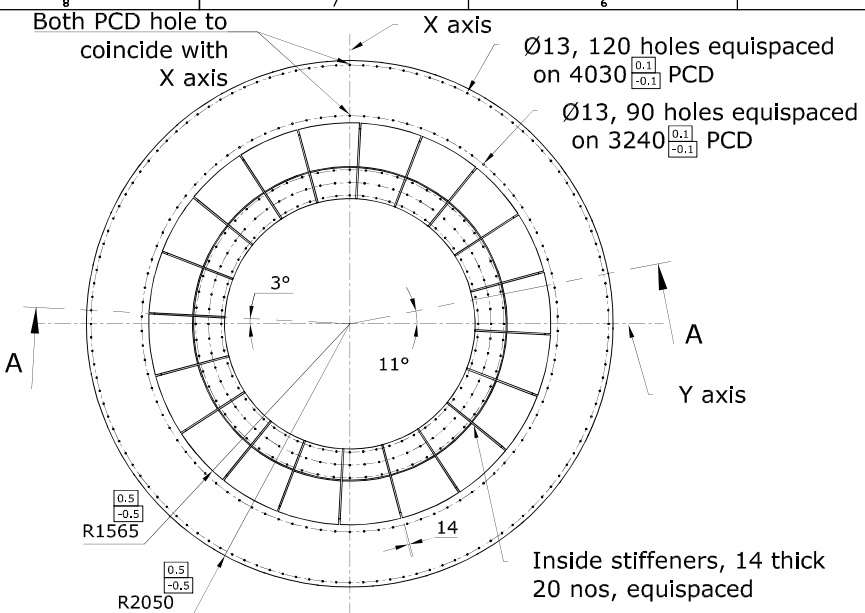
- The item should be properly packed and delivered to SDSC SHAR. Any damage during transportation will be under the scope of vendor and vendor has to rectify the same.
- Pre-delivery Inspection will be carried out by SDSC SHAR at vendor factory before despatch
- Warranty of 1 year has to be provided against any manufacturing defects from the date of delivery & acceptance at SDSC SHAR
- Sub-contracting of entire order to 3rd vendor is not acceptable. However, machinery/equipment for machining, drilling, heat treatment and CMM inspection shall be utilized from other agencies/service providers if necessary. The details of activities planned through external agencies shall be intimated to SDSC SHAR.

12. Drawing

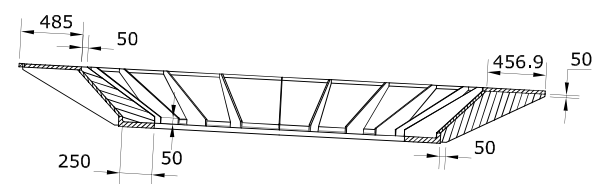
The drawing VTF-FIX-2026-1 is provided in the annexure-1 below.

Annexure -1

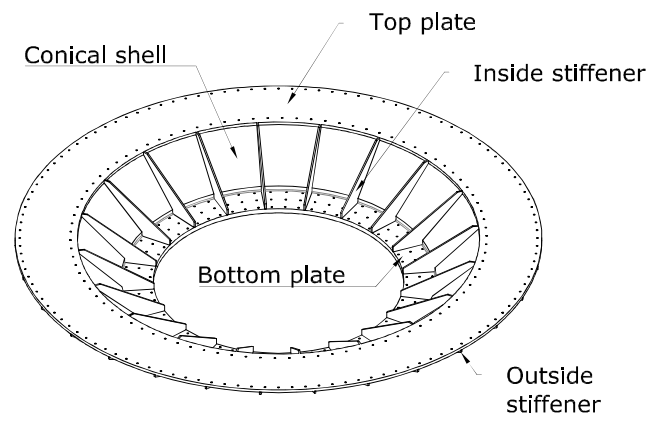
REF. DRG. NO.
CON. FILE NO.



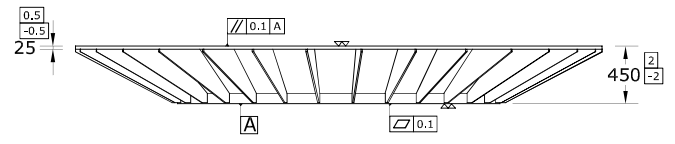
Top view



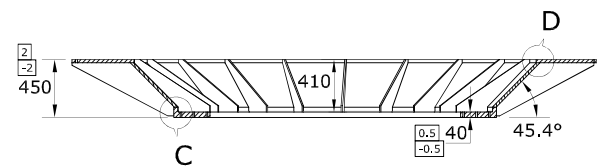
Section A-A



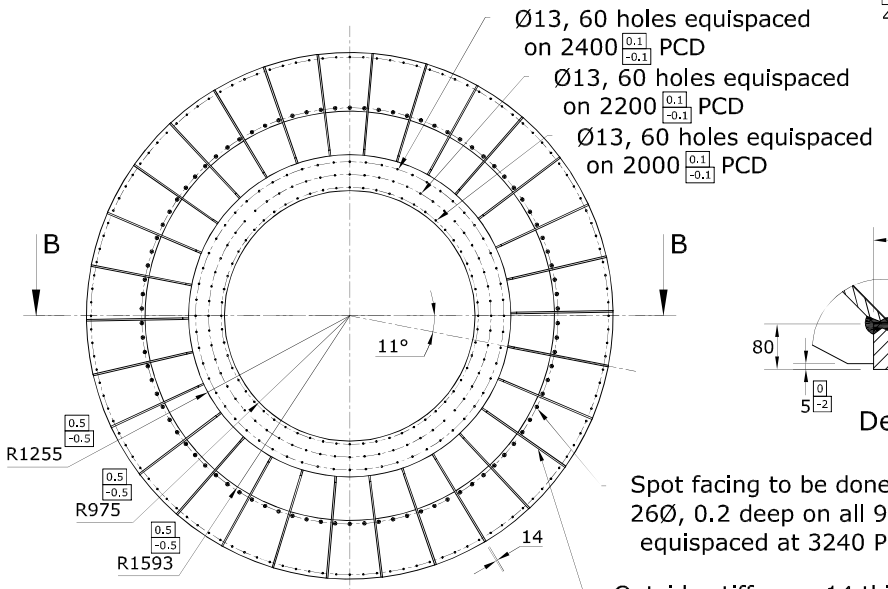
Isometric view



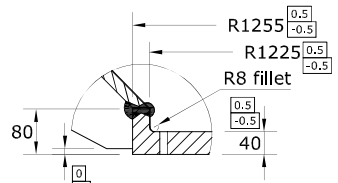
Front view



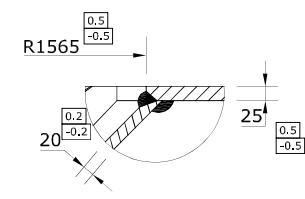
Section B-B



Bottom view



Detail C



Detail D

- Note:**
1. Material : AA 6061 T6
 2. Total mass : 1060 kg approximately
 3. Dimensions are not to scale
 4. All dimensions are in mm
 5. Bottom plate should be machined from a 80mm thick single forged plate
 6. Conical plate should be made from a maximum of 5 segments (3 segments is preferable). The individual segments should be of equal size
 7. Top plate should be made from a maximum of 5 segments (3 segments is preferable). The individual segments should be of equal size
 8. Segments are to be oriented in such a way to make it symmetric with respect to X & Y axis or at least X axis
 9. After completion of all welding operations, final machining should be carried out on top and bottom surfaces to achieve required dimensional tolerances
 10. Spot facing to be done for 4030 and 2400 PCD holes for a depth of 0.2, wherever necessary

- Weld details:**
1. Weld rod suitable for AA 6061 T6 to be used
 2. Weld thickness
Between bottom plate & conical plate : 12mm
Between top plate & conical plate : 12mm
Between stiffeners & other plates : 8mm
 3. Weld details of bottom plate - conical plate & top plate - conical plate are shown in Detail C & D

Spot facing to be done for 26Ø, 0.2 deep on all 90 holes equispaced at 3240 PCD

STATUS	
DISCUSSION / REVIEW	
TENDER PURPOSE	✓
FABRICATION	

<p>DO NOT SCALE THE DRAWING</p> <p>ASK IF IN DOUBT</p> <p>UNLESS OTHERWISE SHOWN ALL DIMENSIONS ARE IN MILLIMETERS</p> <p>REMOVE SHARP EDGES & BURRS</p> <p>CHAMFER 1 MM X 45°</p> <p>MACHINING FINISH IN MICRONS :-</p> <p>▽ 6 - 25 √▽ 1.8 - 8</p> <p>▽▽ 0.025 - 1.6 √▽▽ < 0.025</p>	<p>DEVIATION FOR NON TOLERANCED DIMENSIONS (IS - 2102)</p> <table border="1"> <thead> <tr> <th>DIMETERS & LENGTHS UPTO & INCL. 6</th> <th>LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.</th> </tr> </thead> <tbody> <tr> <td>6 - 30 +0.2</td> <td>1 - 6 ± 1'-00</td> </tr> <tr> <td>30 - 120 +0.3</td> <td>6 - 30 ± 0'-30</td> </tr> <tr> <td>120 - 315 +0.5</td> <td>30 - 120 ± 0'-25</td> </tr> <tr> <td>315 - 1000 +0.8</td> <td>120 - 400 ± 2.0</td> </tr> <tr> <td>1000 - 2000 +1.2</td> <td>400 & ABOVE +3.0</td> <td></td> </tr> <tr> <td>2000 - 4000 +2.0</td> <td></td> <td></td> </tr> <tr> <td>4000 & ABOVE +3.0</td> <td></td> <td></td> </tr> </tbody> </table>	DIMETERS & LENGTHS UPTO & INCL. 6	LENGTH IN MM OF SHORTER SIDE OF ANGLE UPTO & INCL.	6 - 30 +0.2	1 - 6 ± 1'-00	30 - 120 +0.3	6 - 30 ± 0'-30	120 - 315 +0.5	30 - 120 ± 0'-25	315 - 1000 +0.8	120 - 400 ± 2.0	1000 - 2000 +1.2	400 & ABOVE +3.0		2000 - 4000 +2.0			4000 & ABOVE +3.0			<p>SMP&ETF</p> <table border="1"> <tr> <td>DESIGNED</td> <td></td> </tr> <tr> <td>DES.CHECKD</td> <td></td> </tr> <tr> <td>DRAWN</td> <td></td> </tr> <tr> <td>DRG.CHECKD</td> <td></td> </tr> <tr> <td>APPROVED</td> <td></td> </tr> </table>	DESIGNED		DES.CHECKD		DRAWN		DRG.CHECKD		APPROVED		<p>TITLE</p> <p>4.1m Aluminium alloy vibration test fixture</p>
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