

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
तिरुपति जिला, आं.प्र., भारत
लैंड लाइन नं : 0862322
गतिमान नं :



Government of India
Department of Space
Satish Dhawan Space Centre SHAR
Sriharikota Range P.O. 524 124
Tirupati Dist., AP, India
Land Line No : 0862322
Mobile No :

निविदा सूचना सं. TENDER NOTICE NO. SDSC SHAR/HPS/PT/RO-VALF/57/2026-27

भारत के राष्ट्रपति की ओर से प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा निम्नलिखित वस्तुओं के लिए ऑनलाइन निविदाएं आमंत्रित करते हैं/On behalf of President of India, 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 /VALF PURCHASE /VALF/ 2026000904 Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building at SLC Site [Public Tender - Two Part]	Fabrication, Machining, Assembly, Shop inspection, Packing, Forwarding, Transportation, Delivery of SS1 Segment Tilting Fixture at SLC site including unloading at storage site	1 Lot.
		Loading, transportation of items from storage area to NASPF building in SLC site, handling, erecting, testing, commissioning of the SS1 Tilting Fixture	1 Lot.

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 30.07.2026 at 16:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 30.07.2026 at 16:30 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 31.07.2026 at 11:00 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-प्रोक्यूरमेंट www.eproc.isro.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-प्रोक्यूरमेंट वेबसाइट www.eproc.isro.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.
- प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा के पास किसी भी या सभी निविदाओं को स्वीकार / अस्वीकार करने का अधिकार है। / 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/04062026/G0284H03W0GN

दिनांक DT: 08.07.2026


प्रधान क्रय एवं भंडार
HEAD PURCHASE AND STORES

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

**Tender for Procurement, Manufacture, Supply, Erection, Testing &
Commissioning of SS1 Segment Tilting Fixture for NASPF Building at
SLC Site**

Bids to be submitted online

Tender No.: SDSC SHAR/VALF PURCHASE/SH202600090401 dated 08-07-2026

A. Tender Details

Tender No : **SDSC SHAR/VALF PURCHASE/SH202600090401**

Tender Date : **08-07-2026**

Tender Classification: **GOODS**

Purchase Entity : **VALF PURCHASE**

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

Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building at SLC Site

GEM/GARPTS/04062026/G0284H03W0GN

As per tender documents

A.1 Tender Schedule

Bid Submission Start Date : **08-07-2026 19:00**

Bid Clarification Due Date : **15-07-2026 10:00**

Bid Submission Due Date : **30-07-2026 16:30**

Bid Opening Date : **31-07-2026 11:00**

Price Bid Opening Date : **31-08-2026 14:00**

B. Tender Attachments

NA

Instructions To Vendors

1. Format for Self Declaration regarding Restriction under Rule 144 (X) of GFR 2017 (Land Border Sharing)

1. (to be printed in letter head)

DECLARATION BY AUTHORISED SIGNATORY OF THE FIRM

2. I, the undersigned, _____ (full names), do hereby declare, in my capacity as _____ of M/s _____ (name of bidder entity), that:

3. 1) I have read the Order (Public Procurement No.1, 2 & 3) dtd 23 Jul 2020 & 24 Jul 2020 office memorandum (OM) No. F.18/37/2020-PPD Dt:08.02.2021, OM NO. F.12/1/2021-PPD (Pt) dated 02.03.2021 and OM No. F.7/10/2021-PPD dated 08.06.2021 and OM No.F.7/10/2021-PPD dated 23.02.2023 on the subject of Restrictions under Rule 144 (xi) of the General Financial Rules (GFRs), 2017 regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order.

4. I certify that M/s. _____ (name of bidder entity)

5. (A) IS NOT FROM SUCH A COUNTRY

6. (B) IS FROM SUCH A COUNTRY AND HAS BEEN REGISTERED WITH THE COMPETENT AUTHORITY (attach evidence of valid registration)

7. (Select any one of the above (A) or (B) and strike off the other) I hereby certify that this SUPPLIER fulfils all requirements in this regard and is eligible to be considered.

8. 3) I understand that the submission of incorrect data and / or if certificate / declaration given by M/s _____ (name of bidder entity) is found to be false, this would be a ground for debarment and further legal action in accordance with law as per Clause 18 of Procurement Policy Division OM No.F.7/10/2021-PPD dated 23.02.2023

9. AUTHORIZED SIGNATURE:

DATE: _____

Seal / Stamp of Bidder

2. Format for MII declaration

1. (to be printed in letter head) -

Self-Certification under preference to Make in India order Certificate

2. In line with Government Public Procurement Order No. P-45021/2/2017-PP (BE-II)-Part(4) Vol.II dated 19.07.2024 and its latest directives there of, we hereby certify that we

M/s. _____ are local suppliers and the offered item having local content of _____% [Local content means the amount of value added in India which shall, unless otherwise prescribed by the respective Nodal Ministry, be the total value of the item procured (excluding Net Domestic Indirect Taxes, Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc.) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent] as defined in above orders for the material against Tender/Bid No _____ dated _____

3. Details of location at which local value addition will be made as follows:

4. We also understand, false declaration will be breach of the code of integrity under the 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.

5. Thanking You

Signature with date

Name

Designation

Official Seal

3. General Instructions to Vendor

1. Instructions to Tenderers

TeleNo.08623-226289/6082

e-Mail ID : hps.p@shar.gov.in, satya.ch@shar.gov.in, psovalf@shar.gov.in

1. Interested tenderers may, at their option, login to <https://eproc.isro.gov.in> and submit your offers.
2. TENDER FEE IS NOT APPLICABLE.
3. EARNEST MONEY DEPOSIT IS NOT APPLICABLE
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 180 days for 2 part bids and minimum period of 90 days for single part from the date of bid 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. Late bids will not be considered.
- 7 (A). Request for the extension of the due date will not be considered without clear justification and approval of competent authority.
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: BIDDER PARTICIPATION IS NOT ALLOWED.
9. Prices are required to be quoted according to the units indicated. In domestic tenders price shall be quoted in INR only.
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. OPTION CLAUSE: 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. SDSC SHAR SRIHARIKOTA reserves the right to accept or reject any bid in part or full by assigning reasons 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.7/10/2021-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23.02.2023. All the conditions mentioned in the above OM is applicable for this tender.

4. STANDARD TERMS & CONDITIONS

1. 1.OUR GST NUMBER: 37HYDF00385A1DZ- SDSC SHAR SRIHARIKOTA

2.Email for communication: psovalf(at)shar.gov.in

3.Instruction to Indigenous Suppliers:

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

B) 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 plus 15 percent 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 percent of the total tendered value. In case of more than one such eligible MSE, the supply will be shared equally.

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

Interested vendors shall specifically claim the benefit with supporting documents.

C) 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 percent. 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 Rupees 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 04.06.2020 and amendments thereof. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

D) Instruction to Foreign Suppliers-(if allowed as per RFP)

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 namely, hay, straw, wood shavings, wood chips, saw dust, wood waste, wooden pallets, Dunn age Mats, wooden packages, coir pith, pear or sphagnum moss etcetera, will be allowed entry by Customs only with a Phytosanitary Certificate. In case of 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 number 50 - 2017 Customs dated 30.06.2017, Serial Number 539(A) as amended by Notification number 05 - 2018 dated 25.01.2018 and vide Notification No.05-2025 dt.01.02.2025 and 45-2025 dtd 24.10.2025. In case the quote is on Indian Rupee (Outside High Sea Sale), the price shall include taxes and duties if any. We shall not be 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 number 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.

E) Common terms to Indigenous and foreign suppliers:

a.Warranty

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

b.Performance Bank Guarantee

Towards the performance of the systems during the warranty period you shall submit a performance bank guarantee equivalent to 3 percent 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.

c.Security Deposit

On acceptance of the order, you shall submit an interest free amount equivalent to 3 percent 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.

4.Offer Validity

Your offer shall be valid for 180 days in case of 2 part - 90 days in case of single part from the date of

tender opening. In case your offer validity is less than the mentioned above, the said offer is liable for rejection which may please be noted.

5. Liquidated Damages:

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

6.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 and War, stoppage of deliveries by the Government, freight embargoes etcetera; 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.

Note:

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

II.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.

III.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.

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

V.TERMS AND CONDITIONS IN THE RFP/ SCOPE OF WORK, SHALL PREVAIL OVER OTHER TERMS AND CONDITIONS(in case of any contradiction or ambiguity)

5. 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.

C. Bid Templates

C.1 Technical Bid - Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building at SLC Site

1. FABRICATION AND INSTALLATION:

Fabrication, Machining, Assembly, Shop inspection, Packing, Forwarding, Transportation, Delivery of SS1 Segment Tilting Fixture at SLC site including unloading at storage site as per the enclosed specifications and drawings.

[Document : Drawings of SS1 Segment Tilting Fixture](#)

[Document : RFP document for SS1 Segment Tilting Fixture](#)

2. FABRICATION AND INSTALLATION :

Loading, transportation of items from storage area to NASPF building in SLC site, handling, erecting, testing, commissioning of the SS1 Tilting Fixture as per enclosed specification.

Common Specifications (Applicable for all items)

SI No	Specification	Value	Compliance	Offered Specification	Remark
1	Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building at SLC Project	As per enclosed drawings and RFP document of this tender.	Yes / No / Explain		

Supporting Documents required from Vendor

1. As per attached RFP document

2. Please upload Annexure duly sealed & signed by your competent authority

3. GST Certificate

4. Upload Land Boarder Sharing Declaration

5. Technical literature & data sheets of equipment / machinery

6. Experince certificate as mentioned in the attached RFP

7. Annual turnover

8. Solvency Certificate for an amount of Rs. 100 Lakhs (not before 6 months from the date of tender closing)

9. Copy audited balance sheet

10. Firm establishment certificate and nature of work

11. Work completion certificate

12. Structure and organization chart

13. List of personnel with qualification and experience

14. Any other docuements as mentioned in the RFP

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	As per guidelines and terms & conditions mentioned in the RFP document of this tender	Yes / No / Explain	
2	<p>Taxes: GST/IGST @ 5% is applicable.</p> <p>As per the Notification No. 9/2025-Central Tax (Rate) dt:17.09.2025 S.No.462 (Schedule I, 88 or any other chapter) issued by Ministry of Finance (Dept. of Revenue) & Government of Andhra Pradesh, Revenue (Commercial Taxes) Department, G.O.MS.No. 345 Dated: 20.09.2025 S.No.462 (Schedule I, 88 or any other chapter) and as per the Notification No. 9/2025-Integrated Tax (Rate) dt:17.09.2025 S.No.462 (Schedule I, 88 or any other chapter) issued by Ministry of Finance (Dept. of Revenue), SDSC SHAR is eligible to avail GST/IGST @5% for the procurements related to Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for launch vehicles and satellites and payloads. we will issue only End User Certificate for availing GST/IGST @5%. Hence, kindly confirm your acceptance and submit your price quotation accordingly.</p> <p>Please confirm here whether your quoted "UNIT PRICE" in our Price Bid is EXCLUDING GST or INCLUDING GST. ----- NOTE: If you are not clearly stating "GST Extra in basic cost" it will be treated as "GST is included in the quoted Basic/Unit cost in the price bid" AND Your offer will be evaluated as INCLUSIVE OF GST.</p> <p>(HSN/SAC CODE SHALL BE MANDATORILY INDICATED FOR EACH ITEM.)</p>	Yes / No / Explain	
3	Please mention your GST registration details: GSTIN of SDSC SHAR: 37HYDF00385A1DZ	Yes / No / Explain	

4	Indicate whether your quoted unit price is inclusive of this Customs duty @ 5% (i.e., IGST@5% on Assessable Value) or extra.	Yes / No / Explain	
5	DELIVERY TERM: FOR SRIHARIKOTA 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.	Yes / No / Explain	
6	DELIVERY SCHEDULE: Items shall be delivered within - 6 months from the date of release of Purchase Order. Please confirm your acceptance. (detailed in the RFP at the para no. 28 of Section A2)	Yes / No / Explain	
7	LIQUIDATED DAMAGE: Since delivery is the essence of this order, in case of delay in completion of total scope of work beyond the stipulated delivery period, Liquidated Damage will be levied @ 1/2% per week or part thereof on undelivered portion as pre-estimated damages subject to a maximum of 10% of total order value.	Yes / No / Explain	

8	<p>PAYMENT TERM: Option-1: i. 20% of PO cost as Advance against submission of Advance Bank Guarantee (ABG) for an equal amount from a commercial bank and shall be valid till Contract completion period plus 06 months claim period. II. 40% of PO cost along with 100% GST against receipt of complete material at our site and clearance by CLIP. III. 40% of PO cost after successful erection, commissioning & acceptance by CLIP and on submission of PBG.</p> <p>Option-II: 100% payment shall be made through RTGS within 30 days of receipt, testing, demonstration, repacking and acceptance by the department of the item at our site against submission of PBG. (As detailed in RFP para no. 26 & 27 of Section A2)</p> <p>Note: i). Please clearly indicate option of your payment while bidding.</p>	Yes / No / Explain	
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9	<p>Following terms are applicable in case of advance payment.</p> <p>(a) Wherever advance payment is requested, Bank Guarantee from any commercial bank on Rs.200 non-judicial stamp paper should be furnished for the equivalent amount as per the format issued by SDSC SHAR valid till completion of total scope of work plus 60 days.</p> <p>(b) After drawl of advance payments, if the vendor/supplier is not supplying the material within the delivery schedule, the advance amount will be recovered and interest will be levied as per the RBI Prime Lending Rate or similar rate published by RBI plus 2% penal interest.</p> <p>(c) In case of any delay attributable to the contractor/supplier in effecting the supply after the prescribed delivery date. Interest at RBI Prime Lending Rate or similar rate published by RBI will be charged for the period beyond the specified delivery date, on the amount of balance advance payment in addition to LD.</p> <p>(d) Interest will be loaded for advance payments/stage payments as per the RBI Prime Lending Rate or similar published by RBI and will be added to the landed cost for comparison purpose.</p> <p>In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.</p>	Yes / No / Explain	
10	<p>Evaluation Criteria: Order will be placed on total value wise L1 offer basis. Vendors should mandatory quote for all the line items. Part tenders will be summarily rejected.</p>	Yes / No / Explain	
11	<p>PART ORDER: We reserve the right to place part order based on item wise L1 offer, if required. Please confirm acceptance for part order.</p>	Yes / No / Explain	

12	<p>SECURITY DEPOSIT (SD): Security Deposit shall be submitted for 3% of the order value (or as notified by ISRO from time to time) in single installment through Insurance Surety Bonds/ Account Payee Demand Draft/ Bankers Cheque/ Fixed Deposit Receipts or Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or payment online in an acceptable form within 14 days after receipt of Purchase Order valid till completion of the Delivery period plus 60 days claim period. This security deposit shall not carry any interest and shall be returned to you only after successful completion of total scope of work. In case of poor performance/ non performance of the contractual obligation security deposit shall be forfeited. In case of non submission of Security deposit within the stipulated period, this order shall be liable to be cancelled.</p>	Yes / No / Explain	
13	<p>WARRANTY: The offered items shall have warranty for a period of Twelve Months from the date of receipt, installation, commissioning and acceptance against any manufacturing defects/ bad workmanship. If any defects are noticed during the warranty period, the contractor shall, within 14 days (or within any other period, if stipulated in the contract), expeditiously repair, or replace the defective Goods or parts thereof, free of cost, at the ultimate destination.</p>	Yes / No / Explain	

14	<p>PERFORMANCE BANK GUARANTEE (PBG): A Bank Guarantee for 3% of the order value (or as notified ISRO from time to time) shall be provided towards the performance of the system. PBG may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form valid till the successful completion of warranty period plus 60 days. This will not carry any interest and shall be returned to you after successful completion of warranty period against your request. In case of non-performance/poor performance the Bank Guarantee shall be forfeited.</p>	Yes / No / Explain	
15	<p>COMBINED BANK GUARANTEE (Performance Security): In case vendors are unable to submit two separate BG for SD and PBG, to ensure due performance of the contract, please furnish performance security for 03% of the value of the Purchase Order within 15 days of award/release of GeM contract/PO as per the format issued by the purchaser. Performance Security may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form and shall be valid till the completion of total contractual obligation (i.e., Supply period PLUS commissioning period (if applicable) PLUS warranty period PLUS 60 days). This will not carry any interest and shall be returned to you after successful completion of contractual obligations against your request. In case of non-performance/poor performance/breach of contractual obligations, bank Guarantee shall be forfeited and in case if the vendor fails to furnish the performance security deposit within the specified date, the Purchase Order/Contract liable to be cancelled.</p>	Yes / No / Explain	

16	<p>Public Procurement Policy for MSE:</p> <p>Purchaser reserves the right to give preference for procurement of goods in terms of product reservation and preferential / mandatory purchase policy as notified by Government of India from time to time. Bidders claiming any preference shall submit relevant and valid registration certificate along with the tender in terms of the relevant Orders/Notifications issued by appropriate Authority/Government.</p> <p>If the bidder is a Micro or Small Enterprise as per latest definitions under MSME rules, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer.</p> <p>If the bidder is a Startup, the bidder shall be exempted from the requirement of "Bidder Turnover" criteria and "Experience Criteria". In case any bidder is seeking exemption from Turnover / Experience Criteria, the supporting documents (DPIIT registration) to prove his eligibility for exemption must be uploaded for evaluation by the buyer.</p>	Yes / No / Explain	
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17	<p>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.</p> <p>If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer. 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.</p> <p>Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service.</p> <p>If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 PLUS 15% 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.</p>	Yes / No / Explain	
18	Submit manufacturers authorization certificate and manufacturers confirmation of extending the required warranty support for the quoted product (in addition to the bidders confirmation to the required warranty)	Yes / No / Explain	

19	<p>Make-In-India (MII) Clause: For this procurement, provisions contained in Government Public Procurement Order No. P-45021/2/2017-PP(BE-II)-Part(4)Vol.II dated 19.07.2024 its latest directives/amendments there of shall be followed. Accordingly, you are requested to indicate the percentage of local content in the material, clearly mentioning the details of location(s) at which value addition is made in line with clause 9 to O.M dated 19.07.2024 referred above. It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc. 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 a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in-India) order.</p>	Yes / No / Explain	
20	<p>Bidders shall ensure that for tenders involving supply of multiple items, weighted average of all items to be taken while calculating the local content.</p>	Yes / No / Explain	
21	<p>The Bidder shall give self-certification for local content in the quoted item (goods/works/services) at the time of tendering. However, at the time of execution of the project, for all contracts above INR 10 Crore, the contractor/ supplier shall be required to give local content certification duly certified by cost/ chartered accountant in practice. For cases where it is not possible to provide certification by Cost/ Chartered Accountant at the time of execution of project, the supplier shall be permitted to provide the certificate for local content from Cost/Chartered Accountant after completion of the contract, within time limit acceptable to the procuring entity. In case the contractor/supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-I or from Class-II to Non-local, a penalty upto 10% of the contract value shall be imposed.</p>	Yes / No / Explain	

22	"Purchase preference to MSE/MII-Class-I local suppliers will be as per notification No.F.1/4/2021-PPD dated 18-05-2023 and its directives/amendments thereof issued by Ministry of Finance, Department of Expenditure, Public Procurement Division".	Yes / No / Explain	
23	Safe delivery of the ordered item with proper transport worthy pack shall be ensured.	Yes / No / Explain	
24	The bidder shall provide compliance to Order No. F.No.7/10/2021 PPD dated 23.02.2023 and amendments thereof by Ministry of Finance, Department of Expenditure, Public Procurement Division regarding restrictions on procurement from a bidder of a country which shares a land border with India and comply to all the provisions of the Order. In this regard, you shall certify that the bidder entity is not from such a country or, is from such a country, has been registered with the Competent Authority as per the format issued along with the tender.	Yes / No / Explain	
25	VALIDITY OF OFFER: Being two part tender, validity of the offers/ tenders should be 120 days from the date of opening of Part-1. Tenders shorter than offer validity mentioned above will not be considered for evaluation.	Yes / No / Explain	
26	Do you have Unique GeM Seller ID? If YES, provide details. If NO, As per Office Memorandum No 6/9/2020-PPD dated 24/08/2020 of Department of Expenditure, it is mandatory for sellers providing Goods and Services to Central Government Organizations to be registered on GeM and obtain a Unique GeM Seller ID, at the time of Placement of Order/acceptance of contract. Tenderers shall ensure the same.	Yes / No / Explain	
27	Please furnish Contact details i.e. Name of the focal point for this tender, E-mail id, Mobile no/ Landline no. etc. for further communication.	Yes / No / Explain	

28	<p>FORCE MAJEURE:</p> <p>A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong doing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a non-performance of party entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs (say, not later than 14 days after its occurrence), and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (Ninety) days, either party may at its option terminate the contract without any financial repercussion on either side.</p> <p>Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.</p>	Yes / No / Explain	
29	Compliance to the Technical specifications shall be submitted duly sealed and signed	Yes / No / Explain	
30	This being a domestic tender prices shall be quoted in INR only. Quotations in foreign currency shall be summarily rejected.	Yes / No / Explain	
31	The price quoted shall be firm and fixed till completion of contract period and total scope of work.	Yes / No / Explain	

32	The Purchase Order / Contract shall be governed by Indian Law and jurisdiction shall lie in the Courts of Andhra Pradesh, India.	Yes / No / Explain	
33	Commercial terms and conditions quoted by the vendor in the Commercial Bid (Vendor specified terms) of tender will only be considered. Department will not consider the commercial terms quoted any where else in the tender or in any document attached by the bidder. However, department can consider if the same is beneficial. Counter terms and conditions offered by the bidders shall not be deemed to have been accepted by the Purchaser unless specific written acceptance thereof is obtained from the Purchaser. Bidders are requested to make a note and comply.	Yes / No / Explain	
34	The contractor shall take all safety precautions and ensure the safety of his workmen. SDSC SHAR is not responsible for injury / loss of life due to any accident / explosion during the execution of the contract.	Yes / No / Explain	
35	Remarks, if any:	Yes / No / Explain	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	Remark
1	FABRICATIO N AND INSTALLATI ON: Fabrication, Machining, Assembly, Shop inspection, Packing, Forwarding, Transportatio n, Delivery of SS1 Segment Tilting Fixture at SLC site including unloading at storage site as per the enclosed specifications and drawings.	1.00 Lot		-		

2	FABRICATIO N AND INSTALLATI ON : Loading, transportation of items from storage area to NASPF building in SLC site, handling, erecting, testing, commissionin g of the SS1 Tilting Fixture as per enclosed specification.	1.00 Lot		-		
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PROCUREMENT, MANUFACTURE, SUPPLY, ERECTION,
TESTING & COMMISSIONING
OF
SS1 SEGMENT TILTING FIXTURE FOR NASPF BUILDING
At
SLC site

SPECIFICATIONS & PRICE SCHEDULE

OWNER : INDIAN SPACE RESEARCH ORGANISATION

PROJECT : SSLV LAUNCH COMPLEX (SLC)

LOCATION : **SSLV PROJECT OFFICE, SURVEY NO. 260-3C,
MADHAVANKURICHI VILLAGE – 628206, OPP. TO
KODAL NAGAR, THIRUCHENDUR TK., TUTICORIN
DIST., TAMILNADU**



SSLV LAUNCH COMPLEX (SLC)
SATISH DHAWAN SPACE CENTRE
SRIHARIKOTA -524124
INDIAN SPACE RESEARCH ORGANISATION

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: TITLE
	SS1 SEGMENT TILTING FIXTURE	SHEET 2 OF 3

SPECIFICATIONS & ANNEXURES			
SEC	SPECIFICATION NO	ISSUE NO.	TITLE: SS1 SEGMENT TILTING FIXTURE SPECIFICATIONS DOCUMENT
SPECIFICATIONS			
A1	SPEC: SLC/STF/2026	R0	General Terms and Conditions of the Contract
A2	SPEC: SLC/STF/2026	R0	General Specifications & Project information
B	SPEC: SLC/STF/2026	R0	Scope of work & Technical Specifications
C	SPEC: SLC/STF/2026	R0	Quality Assurance Plane
ANNEXURES			
D1	SPEC: SLC/STF/2026	R0	Schedule of prices & general particulars
D2	SPEC: SLC/STF/2026	R0	Bid qualification criteria
D3	SPEC: SLC/STF/2026	R0	Schedule for general particulars / vendor evaluation format
D4	SPEC: SLC/STF/2026	R0	Exceptions and deviations
D5	SPEC: SLC/STF/2026	R0	Schedule of bidder's experience
D6	SPEC: SLC/STF/2026	R0	Data to be filled along with the bid
D7	SPEC: SLC/STF/2026	R0	Check list

ENCLOSURES				
S.NO	DRAWING TITLE	DRAWING NUMBER	VERSION	SHEET
1.	General Assembly Of SS1 Segment Tilting Fixture For SLC	10-04-SLC-08-007/A1/R1	R1	1 of 1
2.	SS1 Head End Segment On Tilting Fixture For SLC	10-04-SLC-08-008/A1/R1	R1	1 of 3
3.	SS1 Middle Segment On Tilting Fixture For SLC	10-04-SLC-08-008/A1/R1	R1	2 of 3
4.	SS1 Nozzle End Segment On Tilting Fixture For SLC	10-04-SLC-08-008/A1/R1	R1	3 of 3
5.	A-Frame With Bearing Housing Assembly (Tilting System For SLC)	10-04-SLC-08-009/A1/R1	R1	1 of 1
6.	A-Frame Assembly	10-04-SLC-08-010/A1/R1	R1	1 of 1
7.	Bearing Housing Assembly	10-04-SLC-08-011/A2/R1	R1	1 of 2
8.	Trunnion Shaft	10-04-SLC-08-011/A3/R1	R1	2 of 2
9.	L-Frame With Tilting Frame Assembly	10-04-SLC-08-012/A1/R1	R1	1 of 4
10.	L-Frame	10-04-SLC-08-012/A1/R1	R1	2 of 4
11.	L-Frame With Mounting Plate Details	10-04-SLC-08-012/A1/R1	R1	3 of 4
12.	Saddle Spacer Locating Plates On L-Frame	10-04-SLC-08-012/A1/R1	R1	4 of 4
13.	Tilting Frame (Right Hand Side)	10-04-SLC-08-013/A1	R0	1 of 1

ISSUE
R0

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: TITLE
	SS1 SEGMENT TILTING FIXTURE	SHEET 3 OF 3

14.	Tilting Frame (Left Hand Side)	10-04-SLC-08-014/A1	R0	1 of 1
15.	Saddle Spacer	10-04-SLC-08-015/A2	R0	1 of 1
16.	Arrangement Of Power Jacks With Support Stands	10-04-SLC-08-016/A1/R1	R1	1 of 1

ISSUE R0

SECTION –A1

GENERAL TERMS AND CONDITIONS OF THE CONTRACT

PROPOSAL DOCUMENT, CLARIFICATION AND ADDENDUM

Quotations are invited from the interested bidders for the enclosed scope of work in two-part bid.

Part-1: Technical & un-priced part of the work and **Part-2:** Priced commercial part.

Only experienced Bidders who are qualifying the bid-qualification criterion given in Section D2 shall quote.

The RFP document is organized in three sections as follows.

Section –A1 : General Terms and Conditions of the Contract

Section –A2 : General Specifications & Project information

Section –B : Scope of work & Technical Specifications.

Section –C : Quality Assurance Plane

Section- D1 to D7: Annexures.

Title of the proposal:

“Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building of SLC Project”

at

“SSLV PROJECT OFFICE, SURVEY NO. 260-3C, MADHAVANKURICHI VILLAGE – 628206, OPP. TO KOODAL NAGAR, THIRUCHENDUR TK., TUTICORIN DIST., TAMILNADU”

Date Public Notification issued by ISRO: [as per the notification](#)

Last Date of downloading tender Document by tenderer: [as per the notification](#)

Last date of submission of tender documents in online by tenderer: [as per the notification](#)

Last date of Bid sealing in online by ISRO: [as per the notification](#)

1. PROPOSAL DOCUMENT

- 1.1. Bidder shall sign & stamp each page of this tender document as token of his acceptance and submit the same during the submission of Part-I bid.
- 1.2. Proposal documents shall remain the property of SDSC SHAR and shall not be used for any another purpose without the consent of SDSC SHAR.
- 1.3. The proposal shall be completely filled in all respects and shall be tendered together with requisite information & Annexure. Any offer incomplete in any particulars is liable to be rejected.

- 1.4. The Proposal (Unpriced Techno-commercial bid) with a complete set of the required documents shall be submitted in ISRO e-procurement website.
- 1.5. The Proposals shall be submitted on-line before the time limit for bid submission specified in the Letter Inviting Bid.
- 1.7. The Proposal will be opened on the date and on the time specified in the Letter Inviting Bid or as soon thereafter as convenient. Proposal not received in time will not be considered.
- 1.8. Bidders shall set their quotations in firm figures and without variations/additions in the terms of the Proposal documents.
- 1.9. Should there be any ambiguity or doubt as to the meaning of any of the tender clause/condition or if any further information is required, the matter shall be immediately brought to the notice of Head, Purchase & Stores of SDSC SHAR in writing.

2. PREPARATION OF BIDS

2.1 SITE VISIT

Bidder is advised to visit & examine the site and its surrounding to familiarize himself of the existing facilities & environment and shall collect all other information which may require for preparing & submitting the Bid and entering into the contract. Claims and objections due to ignorance of existing conditions or inadequacy of information will not be considered after submission of the Bid and during implementation.

2.2 VALIDITY OF OFFER

Bid shall remain valid for acceptance for a minimum period of 4 (four) months from the due date of submission of the Bid. The Bidder shall not be entitled during the said period to revoke or revise his Bid or to vary the Bid except and to the extent required by SDSC SHAR in writing. Bid shall be revalidated for extended period as required by SDSC SHAR in writing. In such cases, unless otherwise specified, it is understood that validity is sought and provided without varying either the quoted price or any other terms & conditions of Bid finalized till that time.

2.3 COST OF BIDDING

All direct and indirect costs associated with the preparation and submission of bid shall be to Bidder's account and SDSC SHAR will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bid process.

2.4 APPLICABLE LANGUAGE/ MEASUREMENTS

The bid and all correspondence incidentals to and concerning the bid shall be in the English Language. For supporting document and printing literature submitted in any other language, an accurate English Translation shall also be submitted. Responsibility for correctness in translation shall lie with the Bidder.

All the measurements shall be given in metric system.

2.5 ARRANGEMENT OF BID

The Bid shall be neatly presented on white paper with consecutively numbered pages. It should not contain any terms and conditions which are not applicable to the Bid. The Bid and all details submitted by the Bidder shall be signed and stamped on each page as token of acceptance, by a person legally authorised to enter into agreement on behalf of the Bidder. (Corrections / alteration, if any, shall also be signed by the same person) and upload in EGPS portal.

2.6 SCHEDULE OF PRICES

The schedule of prices shall be read in conjunction with all the sections of proposal document. The price must be filled online in the same format of 'Schedule of Prices' in Section D1. No copy of price bid shall be enclosed along with other document and upload the same anywhere in the e-procurement portal.

2.7 DOCUMENTS COMPRISING THE BID

Bids shall be arranged in the following order.

2.7.1 Part – I : Technical and Unpriced Commercial Part

Technical and un-priced commercial part shall comprise the attachments, specifying attachment number arranged in the order as follows:

- (a) Submission of bid letter.
- (b) Power of attorney in favour of authorised signatory of the bid / proposal documents.
- (c) All the annexure in Section-D1 to D7 enclosed in proposal duly filled, signed and sealed
- (d) Bid qualification criteria as mentioned in Section-D2 and all supporting documents.
- (e) Write-up on the detailed procedure to be erection at SLC Site of all the items.
- (f) **Unpriced copy of schedule of prices** with all other commercial terms, taxes, duties, exemption certificates and conditions duly filled (**Prices to be kept blank**), signed and stamped.
- (g) Audited balance sheet including profit and loss account for last three financial years showing annual turnover.
- (h) Income tax certificate for last three financial years.
- (i) Solvency certificate from a commercial bank for a value not less than Rs. 100 lakhs and not before 6 months from the date of tender closing.
- (j) Data sheets for all the equipment & checklists enclosed in proposal duly filled, signed & stamped.

- (k) Technical literature & data sheets of equipment / machinery used by him and any other document as mentioned in the proposal.
- (l) Project execution plan.
- (m) Any other relevant document, bidder desires to submit.

2.7.2 Part – II: Priced Commercial Bid

Priced commercial bid shall be filled online in the price bid format. Schedule of prices (Section D1) also to be filled in the online format and no separate document shall be attached. Deviations in terms and conditions, assumptions, conditions, discounts etc. shall be stipulated in format specified in the portal. SDSC SHAR will not take cognizance of any such statement and may at their discretion reject such bids.

3. BID SUBMISSION

Bids duly filled in by the Bidder should invariably be submitted as stipulated in the Letter inviting bid. Bids shall be submitted in the following manner.

3.1 PART – I: UN PRICED TECHNO-COMMERCIAL PART OF THE BID FOR THE WORK

Complete Techno–commercial part of the bid shall be filled online in the “Vendor Specified Terms’ form of the e-tender. Any documents related, technical literature, guarantee / warrantee certificates and any other relevant documents as per the tender shall be scanned in lower resolution format and uploaded to the e-tender under ‘Documents solicited from Vendor’ form only in ISRO e-procurement portal (<https://eprocure.isro.gov.in>).

The deviation statement and checklist shall be filled online, without which the bid will not be considered.

Any bids/offers with price/cost details in Techno-Commercial Offer (Part –I) shall be rejected.

3.2 PART – II: PRICE PART OF THE BID FOR THE WORK

Price bid shall be filled in the on-line ‘price bid’ form of the e-tender only in ISRO e-procurement <https://eprocure.isro.gov.in>. Any other terms and conditions given in this part shall not be considered and if insisted upon by the Bidder, bids are liable for rejection.

- a) SDSC SHAR may open Part – I of the bid on the due date of opening .Price Bids (Part-II) of technically and commercially acceptable offers shall be opened at a later date.
- b) SDSC SHAR reserves the right to reject any or all the Bids without assigning any reasons thereof.

4. Vendor Evaluation Format

SDSC SHAR seeks response to the given questionnaire for assimilating data which would be used for evaluating the capability of the supplier for executing the referred work. Hence, the supplier is requested to provide only genuine data and any discrepancy found at a later point of time may result in rejection of the supplier from purchase process. Furnishing of data cannot be construed as automatic qualification for participation in the tender. Questionnaire should be signed by a responsible and authorized person of the Company / Agency.

Schedule of general particulars / vendor evaluation format shall be filled as per Section: D3. Schedule of Bidders experience and details of present works being executed are to be filled as per Section: D5.

Note: In order to consider as valid experience, all the experience has to be supported with the technical details, completion certificate and purchase order.

If warranted, department/ third party will carry out the inspection of the vendor site / site at which vendor has executed the order for evaluation of the capability and genuineness of the documents.

5. DETERMINATION OF RESPONSIVENESS

SDSC SHAR will scrutinize tenders to determine whether the tender is substantially responsive to the requirements of the tender documents. For the purpose of this clause, a substantially responsive tender is one which inter-alia conforms to all the terms and conditions of the entire Tender document without any deviations and reservations. The decision of SDSC SHAR shall be final in this regard.

6. BID EVALUATION

6.1 During evaluation, SDSC SHAR may request Bidder for any clarification on the bid or additional documents.

6.2 Bidder must provide the point-by-point compliance to the technical specifications along with deviations as per "Schedule of deviations" attached in D4. The tender will be rejected, if the deviations are not acceptable to the Department.

6.3 Performance of Bidder on similar nature of works executed/ under execution shall be taken into consideration before selecting the Bidder for opening his price bid.

6.4 The time schedule for completion is given in the Proposal document. Bidder is required to confirm the completion period unconditionally.

6.5 SDSC SHAR reserves the right to accept a bid other than a lowest and to accept or reject any bid in full or part without assigning any reasons. Such decisions by SDSC SHAR shall bear no liability whatsoever consequent upon such decision.

SPEC: SLC/STF/2026

SSLV LAUNCH COMPLEX (SLC)

SECTION: A1

SS1 SEGMENT TILTING FIXTURE

SHEET : 7 OF 7

6.6 The Bidder, whose bid is accepted by SDSC SHAR, shall be issued a Purchase Order (PO) to proceed with the work. Bidder shall confirm acceptance by returning a signed copy of the PO.

SPEC: SLC/STF/2026

SSLV LAUNCH COMPLEX (SLC)

SECTION: A2

SS1 SEGMENT TILTING FIXTURE

SHEET : 1 OF 24

SECTION –A2

GENERAL SPECIFICATION & PROJECT INFORMATION

1. INTRODUCTION

Specification of “Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building of SLC Project”.

2. SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

The detailed scope of work and technical specifications are given in Sections B of this document. The general terms and conditions are given below.

- Understanding the drawings enclosed with the tender
- Fabrication and supply of SS1 Segment Tilting Fixture as per specifications to SLC site, Tuticorin.
- Packing of all the items and storing at an identified location.
- Erection and commissioning of SS1 Segment Tilting Fixture in NASPF Building at SLC Project

2.1 GENERAL SCOPE

- This specification covers procurement and fabrication at CONTRACTOR's shop floor, packing, transportation from place of manufacture to site, unloading and storage at site, erection & commissioning at SLC site, Tuticorin.
- It is not the intent to specify completely herein all the details of fabrication of the fixtures, erection and commissioning. However, the component / assemblies / equipment shall conform in all respects to high standards of engineering design and workmanship and be capable of performing in continuous commercial operation up to the CONTRACTOR's guarantee ensuring high degree of reliability, ease of operation and maintenance of the equipment in a manner acceptable to the Department who will interpret the meaning of drawings and specifications and shall be entitled to reject any work or material which in his judgment is not in full accordance therewith.
- The extent of supply under the contract includes all items shown in the drawings and this tender document, notwithstanding the fact that such items may have been omitted from the specifications or Schedules. Similarly, the extent of supply also includes all items mentioned in the specification and/or Schedules, notwithstanding the fact that such items may have been omitted in the drawings.
- In the event of conflict between requirements of any two clauses of the specification documents or requirements of different codes/standards, specified, the more stringent requirement as per the interpretation of the Department shall apply.
- All necessary co-ordination with regard to sub-contracted equipment shall be carried out by the CONTRACTOR. The Department will communicate only with the CONTRACTOR for all matters pertaining to this contract.

3. SUPPLIER'S OBLIGATIONS & FUNCTIONS

3.1 SPECIFICATIONS AND DRAWINGS

Supplier shall execute the works in compliance with the provisions of Contract, good engineering practices and codes requirements.

3.2 SUBMISSION OF TECHNICAL DOCUMENTS

Supplier shall prepare and submit to SDSC SHAR for approval of following documents and drawings:

- Technical literatures & data sheets of equipment used by him.
- Fabrication shop layout for fabricating platforms, guide columns & support brackets etc.
- Erection sequence schedule along with erection drawings.
- Detailed Quality Assurance Plan.
- No activity shall be executed unless SDSC SHAR's approval is obtained. The above documents shall be submitted in a format approved by SDSC SHAR.

3.3 FABRICATION & SUPPLY

Supplier shall carry out fabrication and supply of the Tilting fixture in accordance with the scope, technical specifications and terms & conditions of contract.

3.3.1 ERECTION & COMMISSIONING OF THE SS1 SEGMENT TILTING FIXTURE

- Party shall be assembled the tilting fixture at SLC site (SDSC-SHAR) and demonstrate the functional checks.
- Party shall arrange suitable spacers to level the A- Frame for ensuring proper alignment of the fixture.
- Suitable dummy weight will be provided by department for functional check and load test of the Tilting fixture.

3.4 DELIVERY AND STORAGE

- Dispatch Instructions given in the Contract shall be strictly followed. Failure to comply with the instructions may result in delay in payment apart from imposing any other charges as may be deemed to fit.
- Delivery of the fabricated items as per specifications: FOR SLC site, Tuticorin.
- The Supplier shall be responsible for transporting all the equipment to site, unloading and storage.

- No equipment shall be delivered without obtaining dispatch clearance from department.
- All the equipment shall be properly packed to avoid any damage during transportation / handling / storage.
- The equipment received at site shall be stored at a place assigned for this purpose.
- Supplier shall take proper care while storing the equipment and shall provide watch & ward at his own cost.

3.5 PRE-DELIVERY INSPECTION

- The Purchaser or any person nominated by him, shall have access and right to inspect the work spot and work, at all times, during the progress of the work. The inspection and supervision is for the purpose of assuring the purchaser that the plans and specifications are being properly executed. The purchaser or his representative will extend all desired assistance to the supplier in interpreting the plans and specifications. However, such assistance shall not relieve the supplier of any responsibility for the work. Any work, which is proved faulty, shall be corrected by the supplier without delay.
- The fabricated item shall be inspected by the purchaser or his representative at the party's site before dispatch to site as per QAP.
- The item shall be supplied to the purchaser site along with pre-delivery inspection report and dispatch clearance from department.

4. DEMONSTRATION & TESTING

4.1 GENERAL

- Supplier's staff shall include adequate number of competent erection engineers with proven experience on similar works to supervise the erection works and sufficient skilled, unskilled and semiskilled labour to ensure completion of work in time.
- Supplier's erection staff shall arrive at site on date agreed by department. Prior to proceeding to work, Supplier shall however, first ensure that required/sufficient part of his supply has arrived at site.
- Erection of equipment may be phased in such a manner so as not to obstruct the work being done by other Suppliers and / or operating staff who may be present at that time.
- During erection, Department's quality team / their engineer will visit site from time to time with or without Supplier's engineer to establish conformity of the work with

specification. Any deviations, deficiencies or evidence of unsatisfactory workmanship shall be corrected as instructed by Department.

- During demonstration and testing, Department's quality team / their engineer will visit site to establish conformity of the work with specification. Any deviations, deficiencies or evidence of unsatisfactory workmanship shall be corrected as instructed by Department.
- Supplier shall carry out work in a true professional manner and strictly Adhere to the approved drawings. Any damage caused by Supplier during erection to new or existing building / environment shall be made good at no extra cost to Department.

4.2 RECORDS

Supplier shall maintain records pertaining to the quality of erection work in a format approved by Department.

Whenever erection work is complete, Supplier shall offer erected equipment for inspection to Department's engineer who along with Supplier's engineer will sign such records on acceptance.

4.3 TILTING FIXTURE ERECTION

- Supplier shall carry out the works in accordance with the specific instructions given on the approved drawings, method statements, manufacturer's drawings / documents or as directed by Department.
- Equipment shall be erected in neat manner so that they are level, plumb, and square and properly aligned and oriented.
- Tolerances shall be as established in manufactures drawings or as stipulated by Department.
- No equipment shall be welded or bolted, until its alignment is checked and found acceptable by Department.
- Supplier shall provide all supervision, labour, tools, machines, cranes, equipments, scaffolding, rigging material and incidental material such as bolts, wedges, anchors, etc. required to complete the works.
- Supplier shall also provide at his own cost all such consumables like oxygen - acetylene gas, welding rods, grinding wheels, temporary supports, shims etc. required to complete work.
- Supplier shall take utmost care while handling instruments, delicate equipment, panels etc. and protect all such equipment on erection.

4.4 SAFETY

Supplier shall follow the safety regulations / codes and shall take necessary measures at his own cost.

4.5 ERECTION & CONSTRUCTION POWER

- As the site is not fully established and no power supply is available at site, Vendor has to arrange required electrical power for completing this order.
- Material handling equipment required for loading or unloading, erection, testing and commissioning at SLC site is in the scope of vendor.
- Arranging the Material handling equipment for loading/ unloading and movement of parts, sub assembly, bought out items or any other required materials etc., stored within 1km from the erection site including manpower is in the scope of vendor.
- Storing of the supplied items before successfully handing over of the Tilting fixture at SLC site is in the scope of vendor, no separate shelter will be provided for storage.

4.6 SITE PREPARATION / CLEARANCE

- No site preparation works are planned by SLC Project for site fabrication works.
- Preparation of required site for any fabrication and approach requirements for handling the systems shall be in scope of Supplier. The site identified in such works shall be within 500 m from the NASPF buildings location.
- Upon completion of work, Supplier shall remove all his equipment and material from the site within one month or time mutually agreed.
- Supplier at all times shall keep site in clean condition and remove all unwanted material at regular intervals.
- In case Supplier fails to remove all their equipment and material within the mutually agreed time, it is deemed that department will arrange to remove the same at Supplier's cost.

4.7 ACCOMMODATION

- Accommodation will not be provided by department to Contractors.
- Supplier shall make their own arrangement for accommodation, transportation & canteen facility for all his staff, technicians, labour & workers.

4.8 MEDICAL FACILITIES

No medical facilities will be provided by department. Supplier shall make their own arrangement at their own expenses for medical facilities for site personnel.

4.9 WORK PROGRAMME

Supplier shall prepare a detailed program schedule for review / approval by department. Supplier as per exigencies of work shall revise and update programme periodically.

4.10 SUB-CONTRACTS

- No work shall be sub-contracted without prior approval of department.
- Supplier shall be responsible for the proper execution of any sub-contract placed by him in connection with this purchase order.
- Supplier shall furnish to department the copies of all un-priced sub-orders showing promised delivery dates and places.

4.11 CHANGES AND MODIFICATION TO SPECIFICATIONS, DRAWINGS AND QUALITATIVE / QUANTITATIVE REQUIREMENTS

- Supplier shall obtain approval from department before initiating the action for procurement of bought out items.
- During the fabrication review, supplier has to carry out the mutually agreed modifications to meet the overall requirement.

4.12 RECORD OF DRAWINGS AND O&M MANUALS

- Supplier shall submit 3 hard copies & one soft copy of all the approved drawings incorporating any modification / changes made during the execution of CONTRACT. All these drawings shall be marked as 'As Built'.
- Supplier shall submit 3 hard & one soft copy of O&M manual. These manuals should indicate weekly, monthly and yearly maintenance schedule and other instructions necessary for safe maintenance of equipment.
- Submission of the drawings and manuals shall be a precondition for releasing of any final payment due to Supplier.

5. TAXES AND DUTIES

- As per the Notification No. 9/2025-Central Tax (Rate) DT: 17.09.2025 S.No.462 (Schedule I, 88 or any other chapter) issued by Ministry of Finance (Dept. of Revenue) & Government of Andhra Pradesh, Revenue (Commercial Taxes) Department, G.O.MS.No. 345 Dated: 20.09.2025 S.No.462 (Schedule I, 88 or any other chapter) and as per the Notification No. 9/2025-Integrated Tax (Rate) dt:17.09.2025 S.No.462 (Schedule I, 88 or any other chapter) issued by Ministry of Finance (Dept. of Revenue), SDSC SHAR is eligible to avail GST/IGST @5% for

the procurements related to Scientific and technical instruments, apparatus, equipment, accessories, parts, components, spares, tools, mock ups and modules, raw material and consumables required for launch vehicles and satellites and payloads. We will issue only End User Certificate for availing GST/IGST @5%. Hence, kindly confirm your acceptance and submit your price quotation accordingly.

- It is the responsibility of the contractor to issue the Tax Invoice strictly as per the format prescribed under the relevant applicable GST law (CGST Act/SGST Act/UTGST Act/IGST Act). Contractor to indicate the proper GSTN Registration/ HSN code in their tax invoices.
- CGST/SGST/UTGST/IGST shall be paid at actual against Tax Invoice but restricted to the amount and percentage in the contract.
- GST details of SDSC SHAR are given below:
Designation : Senior Accounts Officer
GSTIN : 33HYDF00385A1D7

6. STATUTORY VARIATION

- Statutory variation for CGST/SGST/UGST/IGST is applicable, provided the actual completion of services does not occur beyond the period stipulated in the order/contract or any extension (without levy of penalty). For variation after the agreed completion periods, the service provider alone shall bear the impact for the upwards revisions.
- For downward revisions, the Department shall be given the benefit of reduction in CGST/SGST/UGST/IGST.

7. RISK COVERAGE

- The Supplier shall arrange comprehensive risk coverage for his personnel and equipments at his own cost covering the value of equipment including transportation to the site storage at site till completion of works at site. The period of such coverage shall be up to contractual completion period or any extension granted by Department thereof.
- The purchaser shall not be responsible for any type of risk allowance. This is solemnly lying with service provider.

8. SAFETY CLAUSE

- The contractor shall take all safety precautions and ensure the safety of his workmen. SDSC SHAR is not responsible for injury / loss of life due to any accident / explosion during the execution of the contract.

9. INCOME TAX

Income tax at the prevailing rate as applicable from time to time shall be deducted from the Supplier's bills as per Income Tax Act, 1961 and the rules there-under or any re-enactment or modifications thereof and a TDS certificate shall be issued.

10. BANK GUARANTEE FOR SECURITY DEPOSIT, PERFORMANCE BANK GUARANTEE:**10.1. PERFORMANCE BANK GUARANTEE (PBG):**

A Bank Guarantee for 3% of the order value (or as notified ISRO from time to time) shall be provided towards the performance of the system. PBG may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form valid till the successful completion of warranty period plus 60 days. This will not carry any interest and shall be returned to you after successful completion of warranty period against your request. In case of non-performance/poor performance the Bank Guarantee shall be forfeited and necessary action as per departmental procedures will be initiated.

10.2. SECURITY DEPOSIT (SD)

If Order value exceeds Rs.5 Lakh, Security Deposit shall be submitted for 3% of the order value (or as notified by ISRO from time to time) in single installment through Insurance Surety Bonds/ Account Payee Demand Draft/ Bankers Cheque/ Fixed Deposit Receipts or Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or payment online in an acceptable form within 14 days after receipt of Purchase Order valid till completion of the Delivery period plus 60 days claim period. This security deposit shall not carry any interest and shall be returned to you only after successful completion of total scope of work. In case of poor performance/ non performance of the contractual obligation security deposit shall be forfeited. In case of non submission of Security deposit within the stipulated period, this order shall be liable to be cancelled and necessary action as per departmental procedures will be initiated.

10.3. COMBINED BG FOR PBG CUM SD

In case vendors are unable to submit two separate BG for SD and PBG, to ensure due performance of the contract, please furnish performance security for 3% of the

value of the Purchase Order within 15 days of award/release of GeM contract/PO as per the format issued by the purchaser. Performance Security may be furnished in the form of Insurance Security Bonds, Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank Guarantee) from a Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form and shall be valid till the completion of total contractual obligation (i.e., Supply period PLUS commissioning period (if applicable) PLUS warranty period PLUS 60 days). This will not carry any interest and shall be returned to you after successful completion of contractual obligations against your request. In case of non-performance/poor performance/breach of contractual obligations, bank Guarantee shall be forfeited and in case if the vendor fails to furnish the performance security deposit within the specified date, the Purchase Order/Contract liable to be cancelled and necessary action as per departmental procedures will be initiated.

Note: No interest shall be payable on any bank guarantee.

11. PACKING AND FORWARDING

- The Supplier shall arrange to have all the material suitably packed as per the standards and as specified in the contract. Unless otherwise provided for in the contract, all containers (including packing cases, boxes, tins, drums, and wrappings) used by the Supplier shall be non-returnable.
- All packing and transport charges, transit handling costs and transport fees of agents employed at the place of delivery or elsewhere, shall be deemed included in the price to be paid to the Supplier.

12. ARBITRATION

13. 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.
14. 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.

15. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic) as per its rules and regulations.
16. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator.
17. The considered and written decision of the Arbitrator shall be final and binding between the Parties.
18. The applicable language for Arbitration shall be English only.
19. 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 of Space 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.
20. Arbitration will be a method of dispute resolution in contracts where the dispute value is lesser than Rs.10 Crore (Rupees Ten Crore) only.

In case order is concluded on the Public Sector Undertakings, the following Arbitration Clause will be applicable:

In the event of any dispute(s) or difference(s) relating to the interpretation and application of the provisions of the commercial contracts between ISRO/SDSC SHAR & Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between ISRO/SDSC SHAR & CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute(s) or difference(s) shall be taken by either party for resolution through the "Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD)", as mentioned in the Office Memorandum F No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22nd May, 2018 issued by the Director of the Department of Public Enterprises (DPE) under the Ministry of Heavy Industries and Public Enterprises, Government of India.

21. APPLICABLE LAW AND JURISDICTION

The laws of India shall govern this purchase order for the time being in force. The Courts of Andhra Pradesh, India only shall have jurisdiction to be with and decide any legal matters or disputes what so ever arising out of the purchase order.

22.FORCE MAJEURE

A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrongdoing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party's non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs (say, not later than 14 days after its occurrence), and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase organisation only. In such a situation, the purchase organisation is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (Ninety) days, either party may at its option terminate the contract without any financial repercussion on either side. Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.

23.WARRANTY

- The bidder shall provide **12 months** warranty for the entire system for a defect liability, after final erection, commissioning, testing and acceptance by the department at his cost. During this period, supplier has to provide and adhere to the following:

24.SCHEDULE OF PRICE

- CONTRACT price shall include all costs of "Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building of SLC Project" as per this contract, transport to site, unloading, storage, all risk coverage, erection, installation, testing & evaluation and commissioning of equipment including any other cost for proper and complete execution of the CONTRACT.
- CONTRACT prices shall also include all travelling expenses, living expenses, salaries, overtime, benefit and any other compensation for engineers, supervisors, skilled, semiskilled workmen, watch and ward staff, labours and other staff employed by the Supplier, cost of tools and tackles required for erection and other consumable material required, and all taxes, duties, and levies as applicable on the date of submission of bid.

- Supplier shall quote the prices similar to price bid format enclosed as Section – D1 only in online. The rate quoted shall be on FOR SLC site, Tuticorin, Tamil Nadu, basis.

25. DISCOUNTS

Tenderer shall not indicate any discount separately and quoted price should be after deducting the discount.

26. TERMS OF PAYMENTS

General guideline terms of payments are as indicted below. Any deviation to these payment terms to be brought out.

Option-1:

- I. 20% of PO cost as Advance against submission of Advance Bank Guarantee (ABG) for an equal amount from a commercial bank and shall be valid till Contract completion period plus 06 months claim period.
- II. 40% of PO cost along with 100% GST against receipt of complete material at our site and clearance by CLIP.
- III. 40% of PO cost after successful erection, commissioning & acceptance by CLIP and on submission of PBG.

Or

Option-2:

100% payment shall be made through RTGS within 30 days of receipt, testing, demonstration, repacking and acceptance by the department of the item at our site against submission of PBG.

Note: Interest on advance will be loaded in cost to arrive L1

27. TERMS AND CONDITIONS APPLICABLE FOR ADVANCE PAYMENT.

- a) Wherever advance payment is requested, Bank Guarantee from any commercial bank on Rs.200 non-judicial stamp paper should be furnished for the equivalent amount as per the format issued by SDSC SHAR valid till completion of total scope of work plus 60 days.
- b) After drawl of advance payments, if the vendor/supplier is not supplying the material within the delivery schedule, the advance amount will be recovered and interest will be levied as per the RBI Prime Lending Rate or similar rate published by RBI plus 2% penal interest.
- c) In case of any delay attributable to the contractor/supplier in effecting the supply after the prescribed delivery date. Interest at RBI Prime Lending Rate or similar rate

published by RBI will be charged for the period beyond the specified delivery date, on the amount of balance advance payment in addition to LD.

- d) Interest will be loaded for advance payments/stage payments as per the RBI Prime Lending Rate or similar published by RBI and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

28. DELIVERY SCHEDULE

- The realization of fabrication works within the schedule is very essential. Hence, bidders are requested to adhere to the schedules given below.
- Contractor shall follow the following schedule for executing the contract:

S. No	Description of Target	Responsibility	Target Completion Date (in months)
1.	Purchase Order release	Dept.	T0
2.	Procurement, fabrication / machining, control assembly, inspection, transportation, handling and storage at site.	Vendor	T0 + 4 months
3.	Department clearance for erection and commissioning.	Dept.	T1
4.	Erection, Commissioning of the Tilting Fixture.	Vendor	T1 + 2 month from the date of site clearance for erection

Note: Site clearance for starting erection and commissioning will be given by department via official correspondence. T1 shall be considered as the date mentioned in the correspondence.

29. LIQUIDATED DAMAGES

In the event of the Supplier failing to complete the work within the delivery period specified in the contract agreement or in extension agreed thereto, Department shall reserve the right to recover from the Supplier as liquidated damages, a sum of 0.5 percentage per week or part thereof of the undelivered portion of the total contract price of equipment or work. However, the total liquidated damages shall not exceed 10.0 percentage of the total contract price.

30. DISCLOSURE AND USE OF INFORMATION

- If the documents supplied by SDSC SHAR are marked “Strictly Confidential”, Supplier shall take all necessary steps to ensure the same.
- Supplier shall guarantee that all information and data received during execution of Purchase Order from SDSC SHAR shall be classified as “confidential” within the meaning of the Official Secrets Act and will not be divulged to any third party without prior written permission of SDSC SHAR. All drawings & documents shall be returned after execution of work.
- No publicity of any kind whatsoever regarding this work shall be given without prior clearance from department.

31. ACCEPTANCE AND REJECTION:

- On completion of the work or part of the work as specified in the contract, the representative of the Department referred to, shall check as soon as possible, but in any event within one month of notification of readiness for acceptance that the work performed complies with the contract requirements as regards quantity and quality.
- In the event of rejection of any of the articles, whereby the Supplier feels himself aggrieved, he may within eight days of the receipt of notification of rejection and before such articles have been removed from the place of inspection, give the Department notice of objection. Such objection shall be considered by a Board of Appeals of the Department. The Department shall, without prejudice to the arbitration clause in the contract, take a decision upon presentation of the Board's findings.
- On completion of tests, the members of the Inspection Organization of the Department or Inspection agency appointed by Department shall prepare a report, which must be countersigned by the Supplier.

32. SUSPENSION

- Department may notify the Supplier to suspend performance of any or all of his obligations under the Contract. Such notice will specify the reasons for suspension and the effective date of suspension. Supplier there upon shall suspend the performance of such obligations until ordered in writing to resume performance of Contract by Department.

33. CANCELLATION**23.1 GENERAL RULE**

The Department shall have the right at any time to cancel a contract either wholly or in part by giving written notice by registered mail. From the time of receipt of the written notice, the Supplier shall undertake to observe the instructions of the Department as to the winding up of the contract both on his own part and on the part of his sub-Suppliers.

23.2 WITHOUT FAULT OF SUPPLIER

- In the case of cancellation of a contract by the Department without any fault of the Supplier, the Supplier shall on receipt of Department's instructions forthwith take the necessary steps to implement them. The period to be allowed to implement them shall be fixed by the Department after conclusion with the Supplier and, in general, shall not exceed three months.
- Subject to the Supplier confirming, Department shall take over from the Supplier at a fair and reasonable price all finished parts not yet delivered to the Department, all unused and undamaged material, bought-out components and articles in course of manufacture in the possession of the supplier and property obtained by or supplied to the Supplier for the performance of the contract, except such material, bought-out components and articles in course of manufacture as the supplier shall, with the agreement of the Department, elect to retain.

23.3 WITH FAULT OF SUPPLIER:

- The Department reserves the right, after full consideration of all relevant circumstances, including the observations of the supplier, to cancel a contract in any of the following circumstances.
- In the event of the Supplier's failure to meet
 - I. The Technical requirements of the Supplier.
 - II. The Progress and/or delivery requirements.
- If the Supplier has not observed the provisions of the contract concerning the disclosure and use of information provided by the Department.
- If the Supplier fails to comply with the provisions of the contract concerning the equipment, supplies and technical documents made available by the Department.
- If the Supplier transfers his contract without the Department's authorization or concludes sub-contracts against the Department's explicit directives.

- In the event that Supplier unjustifiably repudiates the Contract or fails to ship or dispatch all or part of the goods ordered for reasons other than those attributed to the Department's actions or as provided in the Force Majeure clause, the Department may, by giving an appropriate notice in writing to the Supplier, fix a Date of Essence by which the Supplier must complete the dispatch in full. If the Supplier fails to do so, the Department, in addition to his right to recover Liquidated Damages in terms of the Contract, shall also have the right to cancel this Contract and make substitute purchases from other sources. If the goods are in a partial state of fabrication, Department may have the fabrication completed by other means, in which event Supplier shall be liable to Department for the additional expenses incurred thereby, but shall not have any claim on savings, if any, in such cases.
- In the event of such cancellation, the Department shall unless otherwise specified in the contract, only pays.
 - In the case of a fixed-cost contract for the supply of equipment or material. The contractual value of items delivered and accepted under the contract before receipt of notification of cancellation, or to be accepted under the special conditions of cancellation.
 - In the other cases. Fair and reasonable price in respect of such work as has been carried out prior to the receipt by the Supplier of notification of cancellation.

34.FRAUDULENT PRACTICES, BRIBERY AND CORRUPTION OF GOVERNMENT SERVANTS

The Supplier represents and undertakes that he has not given, offered or promised to give, directly or indirectly any amount, gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the department or otherwise in procuring the contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the contract or any other contract with the Government for obtaining a contract or showing or forbearing to show favour or disfavour to any person in relation to the contract or any other contract with the government. Any breach of the aforesaid undertaking by the contract or any one employed by him or acting on his behalf or for his benefit (whether with or without the knowledge of the Supplier) or the commissioning of any offence by Supplier or any one employed by him or acting on his behalf, as defined in chapter IX of the Indian Penal code, 1860 or the prevention of corruption Act.

1947 or any other Act enacted for the prevention of corruption shall, without prejudice to any other legal action, entitle the Department to cancel the contract either wholly or in part, and all or any other contracts with Supplier and recover from the Supplier such amount or the monetary value thereof and the amount of any loss arising from such cancellation without any entitlement or compensation to the Supplier. The Department will also have the right to recover any such amount from any contracts concluded earlier between the Supplier and the Government of India. The Supplier will also be liable to be debarred from entering into any contract with the Government of India for a minimum period of five years. A decision of the Department to the effect that a breach of the undertaking had been committed shall be final and binding on the Supplier.

35. RISK AND COST PURCHASE:

Timely delivery of goods/services is of prime importance and where the vendor fails to fulfil their contractual obligations, the Procuring Entity shall be entitled, and it shall be lawful on his part, to procure Stores and/ or services similar to those ordered/cancelled, with such terms and conditions and in such manner as it deems fit at the "Risk and Cost" of the Contractor and the Contractor shall be liable to the Procuring Entity for the extra expenditure, if any, incurred or accrued by the Procuring Entity for arranging such procurement. However, the Contractor shall not be entitled to benefits if any, from such procurements.

Prior to resorting to risk purchase the Purchaser shall consider impact of the default by the contractor, proper notice to the contractor to invoke risk purchase clause and method of recovering the additional amount spent by the Purchaser. The cost as per risk purchase exercise may be recovered from the Earnest Money Deposit/ Security Deposit/ Performance Security of the supplier and/or bills submitted by the supplier against the same contract or any other contract. GST will be charged / levied on Risk Purchase as per the provision of GST Act Rule thereon.

Risk purchase action may be initiated under any of the following conditions.

- a) When the supplier fails to deliver the materials even after extending the delivery period.
- b) When the supplier fails to respond to purchases request for supply of the materials and fails to provide any genuine and bonafide reason for the delay in supply.
- c) When the supplier breaches any of the terms and conditions of the supply order/ contract and as a result fails to execute the order satisfactorily.

36. LAND BOARDER SHARING DECLARATION

The bidder shall provide compliance to Order No. F.No.7/10/2021 PPD dated 23.02.2023 and amendments thereof by Ministry of Finance, Department of Expenditure, Public Procurement Division regarding restrictions on procurement from

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<p>a bidder of a country which shares a land border with India and comply to all the provisions of the Order. In this regard, you shall certify that the bidder entity is not from such a country or, is from such a country, has been registered with the Competent Authority.</p>		
<p>37. MAKE-IN-INDIA (MII) CLAUSE:</p>		
<ul style="list-style-type: none"> • Preference to Make in India: Class-I Local Supplier and Class-II Local Supplier are eligible to bid in terms of Public Procurement (Preference to Make in India), Order 2017 – Revision dated 04.06.2020 and 19.07.2024 issued by Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, Government of India. • <u>Eligibility of ‘Class-1 local supplier/Class-II local supplier’/Non-local suppliers’ for different types of procurement:</u> <ol style="list-style-type: none"> I. In procurement of all goods services or works in respect of which the Nodal Ministry/Department has communicated that there is sufficient local capacity and local competition, only ‘Class-I local supplier’, as defined under the Order, shall be eligible to bid irrespective of purchase value. II. Only ‘Class-I local supplier and class-II local supplier, as defined under the Order, shall be eligible to bid in procurements undertaken by procuring entities, except when Global tender enquiry has been issued in global tender enquiries. ‘Non-local suppliers’ shall also be eligible to bid along with “Class-I local suppliers and Class-II local suppliers. In procurement of all goods, services of works, not covered by sub-para (i) above and with estimated value of purchases less than Rs.200 Crore, in accordance with Rule 161(iv) of GFR,2017, Global tender enquiry shall not be issued except with the approval of competent authority as designated by Department of Expenditure. III. For the purpose of this Order, works includes Engineering Procurement and Construction (EPC) contracts and services include System Integrator (S) contracts. • <u>Local Content:</u> <ol style="list-style-type: none"> I. Local content means the amount of value added in India which shall be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value in percent. II. It shall be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc. III. Imported items sourced locally from resellers/distributors, license fees/royalties paid/technical charges paid out of India, procurement/Supply of repackaged/refurbished/rebranded, shall be excluded from the calculation of local content. IV. For contract involving supply of multiple items, weighted average of all items has to be taken while calculating the local content. 		

A. Purchase Preference:

- a) Subject to the provisions of this Order and to any specific instructions issued by the Nodal Ministry or in pursuance of this Order, purchase preference shall be given to 'Class-1 local supplier' in procurements undertaken by procuring entities in the manner specified here under.
- b) In the procurements of goods or works, which are covered by para (ii) above and which are divisible in nature, the 'Class-I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier' as per following procedure:
- Among all qualified bids, the lowest bid will be termed as L1, if L1 is 'Class-I local supplier, the contract for full quantity will be awarded to L1.
 - If L1 bid is not a 'Class supplier' 50% of the order quantity shall be awarded to L1. Therefore, the lowest bidder among the Class-1 local supplier will be invited to match the L1 price for the remaining 50% of quantity subject to the Class-I local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such 'Class-1 local supplier' subject to matching the L1 price. In case such lowest eligible 'Class-I supplier' fails to match the L1 price or accepts less than the offered quantity, the next higher 'Class-I 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 case some quantity is still left uncovered on Class-I suppliers, then such balance quantity may also be ordered on the L1 bidder.
- c) In the procurements of goods or works, which are covered by para (ii) above and which are not divisible in nature and in procurement of services where the bid is evaluated on price alone, the 'Class-I local supplier shall get purchase preference over 'Class-II local supplier as well as 'Non-local supplier, as per following procedure:
- Among all qualified bids, the lowest bid will be termed as L1 if L1 is Class-I local supplier, the contract will be awarded to L1.
 - If L1 is not Class-I local supplier' the lowest bidder among the 'Class-I local supplier, will be invited to match the L1 price subject to Class-I local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such 'Class-I local supplier subject to matching the L1 price.
 - In case such lowest eligible 'Class-1 local supplier fails to match the L1 price, the 'Class-I local supplier with the next higher bid within the margin of purchase reference shall be invited to match the L1 price and so on and contract shall be awarded accordingly. In case none of the 'Class-I local supplier' within the margin of purchase preference matches the L1 price, the contract may be awarded to the L1 bidder.
- d) "Class-II local supplier" will not get purchase preference in any procurement undertaken by procuring entities.

B. Applicability in tenders where contract is to be awarded to multiple bidders-

In tenders where contract is awarded to multiple bidder's subject to matching of L1 rates or otherwise, the 'Class -I local supplier' shall get purchase preference over 'Class-II local supplier' as well as 'Non-local supplier', as per following procedure:

- In case there is sufficient local capacity and competition for the item to be procured, as notified by the nodal Ministry, only Class I local suppliers shall be eligible to bid. As such, the multiple suppliers, who would be awarded the contract, should be all and only 'Class 1 local suppliers.
- In other cases, 'Class II local suppliers' and 'Non-local suppliers' may also participate in the bidding process along with 'Class I Local suppliers' as per provisions of this Order.
- If 'Class I Local suppliers qualify for award of contract for at least 50% of the tendered quantity in any tender, the contract may be awarded to all the qualified bidders as per award criteria stipulated in the bid documents. However, in case 'Class I Local suppliers' do not qualify for award of contract for at least 50% of the tendered quantity, purchase preference should be given to the 'Class I local supplier' over 'Class II local suppliers'/ 'Non local suppliers' provided that their quoted rate falls within 20% margin of purchase preference of the highest quoted bidder considered for award of contract so as to ensure that the 'Class I Local suppliers' taken in totality are considered for award of contract at least 50% of the tendered quantity.
- First purchase preference has to be given to the lowest quoting 'Class-I local supplier'. Whose quoted rates fall within 20% margin of purchase preference, subject to its meeting the prescribed criteria for award of contract as also the constraint of maximum quantity that can be sourced from any single supplier. If the lowest quoting 'Class – I local supplier', does not qualify for purchase preference because of aforesaid constraints or does not accept the offered quantity, an opportunity may be given to next higher 'Class-I local supplier', failing within 20% margin of purchase preference, and so on.

C. Verification of Local Content:

- The 'Class-I local supplier'/ 'Class-II local supplier' at the time of tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for 'Class-I local supplier'/ 'Class-II local supplier', as the case may be. They shall also give details of the location(s) at which the local value addition is made.
- In cases of procurement for a value in excess of Rs. 10 Cr., the 'Class-I local supplier'/ 'Class-II local supplier' shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.
- The Bidder shall give self-certification for local content in the quoted item (goods/works/services) at the time of tendering. However, at the time of execution of the project, for all contracts above INR 10 Crore, the contractor/ supplier shall be required to give local content certification duly certified by cost/ chartered accountant in practice. For cases where it is not possible to provide certification by Cost/ Chartered Accountant at the time of execution of project, the supplier shall be

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permitted to provide the certificate for local content from Cost/Chartered Accountant after completion of the contract, within time limit acceptable to the procuring entity. In case the contractor/supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-I or from Class-II to Non-local, a penalty up to 10% of the contract value shall be imposed. However, contract once awarded shall not be terminated on this account.

- False declarations will be in breach of 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.
- Certification/ Declaration under preference to Make in India order indicating the percentage of local content in the goods, services or works offered for procurement shall be submitted.

"Purchase preference to MSE/MII-Class-I local suppliers will be as per notification No.F.1/4/2021-PPD dated 18-05-2023 and its directives/amendments thereof issued by Ministry of Finance, Department of Expenditure, And Public Procurement Division".

38. 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. 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% 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 100% of total QUANTITY or as defined in the RFP/Tender.

PROJECT INFORMATION

- 1.0 Project Title : SSLV LAUNCH COMPLEX (SLC)
- 2.0 Location of Plant : SSLV LAUNCH COMPLEX, SSLV PROJECT OFFICE, SURVEY NO. 260-3C, MADHAVANKURICHI VILLAGE – 628206, OPP. TO KODAL NAGAR, THIRUCHENDUR TK., TUTICORIN DIST., TAMILNADU
- 3.0 Elevation : 22 m
- 4.0 Access to Site : Road about 21km from Thiruchendur and about 46km from Koodankulam approximately.
- 5.0 Terrain : Uneven with level varying significantly.
- 6.0 Climatic Conditions
- a) Temperature
- Mean of daily max : 34 °C
- Mean of daily min. : 28 °C
- Maximum Temperature : 39 °C
- Design ambient temperature : 45.0 °C
for performance guarantee
- b) Relative humidity
- i. Range : 58% to 72%
- ii. Design relative humidity : 80%
for performance guarantee
- c) Rainfall
- i. Annual average maximum : 1222.7 mm

7.0 Wind Load

Basic wind speed

: 7m/s

(Enhanced by a factor 1.4)

8.0 Seismic Data

: As per IS : 1893 latest issue

Zone

: Zone II

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TECHNICAL SPECIFICATION

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1. SCOPE

- This specification covers the description of scope of work, functional requirements, technical parameters, general design, materials, construction features, interfaces, list of drawings, and bought out items.

2. QUANTITY

The following are the list of items comprising this tender.

S. No	Description	Quantity
1	Procurement, Manufacture, Supply, Erection, Testing & Commissioning of SS1 Segment Tilting Fixture for NASPF Building of SLC Project	01 LOT*

****One Lot includes Fabrication, Supply, Erection, Painting, Testing and commissioning of the Tilting Fixture in NASPF building of SLC site.***

3. BACKGROUND INFORMATION / FUNCTIONAL REQUIREMENT

- NASPF is an RCC building where rocket motors are integrated to various sub-assemblies at different approach levels.
- The Tilting Fixture will be used to tilt the SS1 Segments from Horizontal to Vertical condition.
- The side frames shall be fixed members rigidly fasten to the ground and they act as pivot points for the L-Frame during Tilting.
- The L-Frame will be connected to the side frames through the Tilting frame and a specially designed trunion shaft. The entire load of the L-Frame and the SS1 Segment approx (40t) will be acting on these shafts and side frames.
- The L-Frame along with saddles and segment holding belt will be used to position and hold the SS1 Segments in place.
- The mechanical jacks used with the tilting fixture are meant for taking the loads of the L-Frame and Segments during non-tilting conditions.

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4. DETAILED SCOPE OF WORK / EQUIPMENT AND SERVICES TO BE PROVIDED BY CONTRACTOR

For successful realization of SS1 Segment Tilting Fixture, the scope of tender shall include but not limited to the following items:

- Complete understanding of functional requirements of the Tilting Fixture, interfaces and thereby ensuring satisfactory operation of the system.
- Understanding of supplied drawings and preparation of required part drawings.
- Procurement of raw materials and bought out items with qualification.
- Preparation / Revision of drawings to incorporate changes in Bought out components.
- Carrying out of fabrication and machining as per approved drawings.
- Control Assembly / assembly and testing of sub systems /system such as drive units at shop along with bought out items as per approved manufacturing /fabrication drawing and bills of materials.
- Receipt of manufactured items and related materials at site, unloading, storing the items at specified location at SLC site.
- After departmental clearance, items are to be transported from storage place to erection site and erecting the fixture.
- Finalizing the procedure for the erection, testing and the fixture to ensure all the functional requirements.
- Carrying out erection, testing and commissioning of subsystems and the Tilting Fixture to ensure all the functional requirements.
- Supply and erection of Foundation bolts for fixing brackets.
- **Jacks shall be provided as per the specifications provided in the drawings and of the following make are only to be considered: POWER JACKS/ ELECON / SANTI GEARS**

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<ul style="list-style-type: none"> • Party has to provide all the test certificates for the bought out items like, Load test certificate for jacks, Material test certificates etc. • Only plain concrete floor, with embedment plate of 56mm locally will be provided for erection of tilting fixture. Vendor has to carryout, minor civil works if required to fix jacks and tilting fixture. • Jacks and tilting fixture has to fixed using recommended bolts as per drawing by <ul style="list-style-type: none"> ○ Drilling of foundation embedment plate to suitable depth ○ Tapping the plate with suitable tap. ○ Fixing of tilting frame/ jacks with embedment plate using suitable bolts. ○ Levelling of the jacks/ tilting fixture using suitable spacers ○ and any minor welding works to fix the tilting fixture • All tools, tackles, cranes etc for erection. • Submission of execution plan for all major actives including manufacturing, testing, packaging, delivery to SLC site at Tuticorin, Tamilnadu, erection and commissioning. • Paint and painting of equipment, structures, supports etc. (Inclusive of Primer Coating). • Shop inspection (in Vendor's works & at project site) after installation along with all required calibrated measuring instruments. • First fill of oil, grease, lubricants consumables, etc. as required during start up and commissioning operations. • Testing, commissioning of complete Tilting Fixture and handing over. • Arrangement for carry out the inspection on works at various stages as per the approved QAP for manufacturing and testing procedures in the document are only for the general guideline of the tenderer. The tenderer shall furnish these details in their offer as required in the relevant articles of this specification. 		

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- Preparation / Revision of Drawings if any changes made and submission of “As built” drawings.

5. **LIST OF DRAWINGS**

The lists of drawings mentioned below are for tendering purpose only. Fabrication drawings will be issued along with the Purchase Order.

S.No	Drawing No.	Description
1	10-04-SLC-08-07/A1/R1	GENERAL ASSEMBLY OF SS1 SEGMENT TILTING FIXTURE FOR SLC
2	10-04-SLC-08-08/A1/R1	SS1 HEAD END SEGMENT ON TILTING FIXTURE FOR SLC
3	10-04-SLC-08-08/A1/R1	SS1 MIDDLE SEGMENT ON TILTING FIXTURE FOR SLC
4	10-04-SLC-08-08/A1/R1	SS1 NOZZLE END SEGMENT ON TILTING FIXTURE FOR SLC
5	10-04-SLC-08-09/A1/R1	A-FRAME WITH BEARING HOUSING ASSEMBLY (TILTING SYSTEM FOR SLC)
6	10-04-SLC-08-10/A1/R1	A-FRAME ASSEMBLY
7	10-04-SLC-08-11/A2/R1	BEARING HOUSING ASSEMBLY
8	10-04-SLC-08-11/A3/R1	TRUNNION SHAFT
9	10-04-SLC-08-12/A1/R1	L-FRAME WITH TILTING FRAME ASSEMBLY
10	10-04-SLC-08-12/A1/R1	L-FRAME
11	10-04-SLC-08-12/A1/R1	L-FRAME WITH MOUNTING PLATE DETAILS
12	10-04-SLC-08-12/A1/R1	SADDLE SPACER LOCATING PLATES ON L-FRAME
13	10-04-SLC-08-013/A1	TILTING FRAME (RIGHT HAND SIDE)
14	10-04-SLC-08-014/A1	TILTING FRAME (LEFT HAND SIDE)
15	10-04-SLC-08-015/A2	SADDLE SPACER
16	10-04-SLC-08-016/A1/R1	ARRANGEMENT OF POWER JACKS WITH SUPPORT STANDS

NOTE:

1. As per drawing No: 10-04-SLC-08-007/A1/R1, Part No: 4, **four numbers of Nylon sandwiched chrome leather belt of width minimum 100mm and SWL of 5t capacity each shall be provide with suitable end fittings for holding the segment during tilting.**

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Configuration of the belt with end fittings shall be provided for department approval. After successful approval, same shall be supplied and installed. Belts shall be load tested to 2 times the SWL for acceptance.

2. Permanent Ladders to approach different locations of tilting fixture has to be provided suitably during site erection as per department approval. An additional 4 tonne weight of structural fabrication and erection works shall be considered for costing.

6. MANUFACTURING, ASSEMBLY, TESTING AND INSPECTION

6.1 GENERAL INSTRUCTIONS FOR FABRICATION AND ERECTION ARE SPECIFIED IN THE SUBSEQUENT CLAUSES.

- The fabrication of components shall confirm to provisions of IS : 800 – 2013
- All rolled material before being laid off shall be clean, free from bends, twist etc. and straight within tolerance allowed by IS: 1852 – 1885. If straightening or flattening is necessary, it shall be done by methods that will not injure the material. Long Plates shall be straightened by passing through a mandrel or levelling rolls and structural shapes by the use of mechanical or hydraulic bar section straightening machines.
- For butt-weld joints, edge preparation shall be preferably done by machining and may be done by mechanically controlled gas cutting machine. Sub surfaces shall be ground cleaned and inspected before fitting/ welding.
- Welding shall be performed as per IS: 9595 – 1996.
- All welding shall be carried out by qualified and approved welders shall perform welding in accordance to ASME Sec IX.
- Unless otherwise specified on drawings, tolerances for fabrication shall be as per ISO: 13920.
- Edge preparation shall be carried out for all plates before welding. For butt-weld joints, edge preparation shall be preferably done by machining and may be done by mechanically controlled gas cutting machine. Sub surfaces shall be ground, cleaned and inspected before fitting / welding.

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- Unless otherwise specified on drawings, all butt welds shall be full penetration welds.
- Unless otherwise specified on drawings, all fillet welds shall be 50% of the minimum plate thickness and shall be on both sides of the plate. Also, the weld shall be continuous.
- Welding sequence shall be such that the distortion and residual stresses are minimised. All welds shall be deposited in proper sequence so as to balance the applied heat as far as possible. (A wandering sequence shall be used whenever necessary).
- The procedure to be followed by CONTRACTOR for all weld repairs shall be subject to approval by the PURCHASER.
- Threaded joints that are to be seal welded shall be thoroughly cleaned before welding.
- All sharp corners of machined/ fabricated items shall be smoothed by deburring, hand grinding, chipping and filing.
- Fabricator employed at site shall have adequate machining, welding, metrology and portable NDT facilities.
- All fabrication work undertaken in parts shall bear distinct match marking to facilitate further identification and erection.
- During manufacturing, assembly, erection and commissioning bolt tightening shall be carried out using torque wrench/ impact wrench to ensure required tightening/ tension in the bolts.

6.2 WELDING INSPECTION

6.2.1 NON-DESTRUCTIVE TESTING

Tenderer shall satisfy himself and the purchaser as to the quality of welds by visual, liquid dye-penetrant test, radiographic inspection as applicable and shall submit the subsequent reports for examination.

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The procedure for testing preparation of surfaces of the welded area shall be as per relevant Indian codes and standards or other equivalents. All non-destructive testing shall be carried out by qualified operators. In case of radiographic and ultrasonic inspection, the operator shall be report to the purchaser any circumstances, which prevent him from carrying out a full volumetric inspection of the weldments whether due to weld geometry, access or equipment limitations. Welds, which may become inaccessible or more difficult to inspection at later stage, shall be inspected during fabrication itself.

6.2.2 EXTENT OF TESTING

The general welding guidelines shall be followed.

- a) 100% Liquid penetrant (LPI) for all fillet joints. (For root and final welds only).
- b) 100% Radiography of all butt-welds.

6.2.3 VISUAL INSPECTION

The component shall be checked for conformity with the detail drawings, dimensional accuracy, surface finish, fit & alignment and other related documents/specifications/codes. Particular attention shall be given to material, fit & installation, workmanship, cleanliness and completeness

Following indications are unacceptable:

- a) Cracks on external surface
- b) Undercut on surface, which is more than 1 mm deep

6.3 INSPECTION & TESTS FOR MACHINED ITEMS

- a) Dimensional record to be maintained
- b) Geometrical tolerance of work piece shall be checked using separate metrology equipment (Gauges, CMM, etc.). For large work pieces, due size constraint, same can be checked on machine before unloading. Machine shall be checked for geometrical accuracy before checking on machine.
 - c) NDT like MPT, DP, or Radiography as applicable shall be carried out on desired portions.

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d) Quality milestone indicated in process sheet/rout card serves as a checklist for inspection during machining. After complete inspection of a component a summary sheet shall be prepared and maintained.

e) Inspection record of all components shall be compiled, mentioned and furnished to the purchaser for each mechanical system.

6.4 SURFACE PREPARATION & PAINTING SYSTEM

This document describes standard procedures for the prevention of atmospheric corrosion of exposed carbon steel equipments/sub-systems through the application of protective coatings. It defines the requirements for the preparation of surface, materials, equipment, procedure and inspection.

All the shop fabricated items shall be sand blasted, painted and then transported to site. The final coat of polyurethane enamel paint of approved quality shall be applied.

6.4.1 SURFACE PREPARATION

All surfaces to be painted shall be clean, dry and free from oil, grease, dirt, dust, corrosion, weld spatters and any other surface contaminants except tightly bonded residues of mill scale rust is permissible to limit not more than 5% of whole surface and a maximum of 10% of any particular square inch area. Surface that may become inaccessible after erection or installation or both, shall be prepared and painted while accessible, with one coat of high build epoxy primer and two coats of polyurethane top coat paint positively of different colour to prove application of two coats before assembly. This does not apply to the interior of sealed hollow sections. Contact surface shall be cleaned before assembly.

6.4.2 GRIT BLASTING

The entire surface of all the fabricated materials shall be grid blasted. Items for which surface preparation is difficult by sandblasting, manual cleaning shall be carried out by chipping, scraping and wire brush and/or abrasive wheels.

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All surfaces shall be degreased using a suitable solvent to remove oil & grease and shall be dried off before painting.

6.4.3 PAINTING SCHEME

- a) After cleaning thoroughly, one coat of “inorganic zinc silicate” or “zinc rich epoxy” primer shall be applied.
- b) Two coats of “Polyurethane enamel paint” having excellent resistance to UV radiation and abrasion finish paint shall be applied before despatch. The following brands are only acceptable.
 - a. GP Bond 141 of Grand Polycoats (aliphatic polyurethane)
 - b. Bergerthane enamel of Berger (Acrylic polyurethane)
 - c. Pentathane finish paint 4513 of Bombay Paints (Aliphatic isocyanate polyurethane)
 - d. MRF special finish, Metal coat (Glossy).
- c) All the machined surfaces & tapped holes shall be protected from corrosion by applying grease.
- d) All the items shall be packed neatly to avoid any damage during transit / storage.
- e) Paint shall be applied on all the fixtures to DFT of 150 microns minimum.
- f) The exact color will be intimated after release of purchase order.
- g) Any intermediate cleaning required between successive coats of paint shall also be carried out as per the manufacturer’s specification and guidelines.
- h) Details given by the purchaser shall be stenciled on the fixtures at appropriate location such as Item description (as per drawing), SWL, etc.

6.5 PACKAGING SCHEME

Packing, Loading, transportation charges should be borne by the tenderer and shall be indicated in the price bid.

This includes Material handling equipment for loading alone and required manpower for loading & unloading (at identified place) is in the scope of contractor and shall be included in the price bid.

6.6 TRANSPORTATION & TEMPORARY PLACEMENT:

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- After the completion of Inspection & Testing at shop, the equipment shall be dismantled with proper match marking into transportable modules.
- The L-Frame, Side frames, jacks, etc. shall be loaded on trailers at supplier stores, transported from works to erection site and unloaded at a place designated for the purpose of Temporary storage.
- The material shall be loaded on truck/ trailer at Temporary storage place using mobile crane transported to actual site and unloaded at site using mobile crane.
- Mobile crane of adequate capacity and boom length shall be used for handling and erecting side frames and L-Frames.
- Temporary storage place is approximately 1000 m from NASPF building; it is open yard without roof, sandy soil with bushes and trees. Hence, clearing of bushes / trees is in the scope of tenderer /supplier only.

6.7 DELIVERY

Supplier shall deliver the items as per delivery schedule from the date of release of purchase order to

**“SSLV Project Office, Survey No. 260-3c, Madhavankurichi Village – 628206,
Opp. To Koodal Nagar, Thiruchendur Tk., Tuticorin Dist., Tamilnadu”**

6.8 ERECTION SEQUENCE

6.8.1 PRE-REQUISITE FOR ERECTION:

- Civil works of NASPF building shall be complete in all respect and building material including scaffoldings shall be removed and area shall be cleaned.
- **No major fabrication is to be planned at SLC Site.**
- **Minor fabrications like fixing of ladders, jack support stands, etc are only to be allowed or any rectifications work with the approval of department.**

6.8.2 ERECTION & COMMISSIONING

- Inspection and testing during/after erection shall be as per QAP.

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- Supplier shall submit detailed erection plan and procedure along with erection loads on building & also on parts being lifted shall be submitted for approval.
- Supplier shall depute adequate qualified personnel i.e., Engineers/supervisor/foreman, (for mechanical and for electrical), fitters, riggers, and electricians and helpers for carrying out quality erection work at our site within schedule.
- Material (lifting equipment, lifting tackles, etc) required during erection, loading and unloading are in Bidder's scope. All lifting machines / tackles used shall be tested & certified as per standards before their usage for lifting crane.

6.8.3 ERECTION PROCEDURE FOR TILTING FIXTURE:

Typical Erection Sequence shall be as follows:

- All the items stored at the storage yard shall be moved to the erection site using suitable material handling equipment. Material handling equipment, mobile cranes, transportation trailer, manpower etc., for moving the item to erection place (inside NASPF) is in the scope of Vendor.
- The equipment to be delivered at the site as per approved site erection plan.
- The equipments delivered at site shall be inspected and checked as per packing list for totality of requirement.
- The machinery parts shall be cleaned and the corrosion preventing coating shall be removed from surface of the machinery. The parts, which are delivered in dismantled condition, shall be cleaned prior to their assembly.
- The Contractor shall submit documents depicting Fabrication and Erection Procedure at site, Alignment Sequence, Detailed Trial / Test Runs at site based on the guide lines indicated in this document.
- The centerlines & benchmarks shall be checked and established in suitable place for easy reference.
- The items / components / sub-assemblies shall be erected / mounted in the following sequence. However, the sequence may be altered due to site condition and local constraints.

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: B
	SS1 SEGMENT TILTING FIXTURE	SHEET : 13 OF 21

- The structure shall be erected ensuring that there is no mismatch between L-Frame and Side frames. The verticality of the side frames shall be checked with plumb and also the required distance between side frames and L-Frame shall be maintained throughout its height.
- The Side frames shall be assembled on Ground level one at a time and then locked at required position.
- The L-Frame shall be then lifted using a suitable crane and assembled to the side frames. Clearances and gaps between the side frame and L-Frame shall be ensured.

6.8.4 SPECIFIC REQUIREMENTS

- All bought out items supplied shall have capacities not less than those stated in the attached drawings and necessary test certificates shall be furnished in this regard.
- Any items which may not have been specifically mentioned herein but are needed to complete the equipment / system shall also be treated as included and the same shall also be furnished and erected, unless otherwise specifically excluded as indicated.
- All tools and tackles required during various stages of execution of order right from manufacture at shop to the erection and testing at site shall be in the scope of the Contractor.

6.9 TESTING PROCEDURES AND SCOPE OF INSPECTION

- Raw Material Inspection shall be carried out at the Vendor's works for compliance of the raw materials to the specified standards.
- Raw materials identification & physical and chemical test certificates for all materials used in manufacture of the equipment.
- Details of stage wise inspection and rectification records for fabricated items and machined articles.

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	SS1 SEGMENT TILTING FIXTURE	SHEET : 14 OF 21

- Manufacturer’s material and performance/relevant test certificates for all bought-out items.
- Non-destructive test reports.
- Surface preparation and painting certificates.
- Certificates from competent authority for the items coming under statutory regulations, if any
- Alignment & Geometrical Accuracy Certificates.
- Where physical and chemical test certificates of material are not available, the tenderer shall arrange to have specimens and test samples of the materials, tested in Government approval laboratory at his cost and submit the copies of test results to the purchaser for scrutiny and approval. Number of test samples against each heat/cast/lot of batch of materials shall be as per relevant Indian or international standards.
- Where facilities for testing do not exist in the tenderer’s laboratories or in case of any dispute, samples and test pieces shall be drawn by the tenderer in presence of the purchaser and sealed sample shall be sent to any Government approval laboratory for necessary tests at supplier’s cost.
- The purchaser shall have the right to be present and witness all the tests being, carried by the tenderer at their own laboratory or Government approved laboratories. Also, they shall reserve the right to call for confirmatory test on samples at their discretion.
- Bought out components shall be inspected either at Vendor’s works or at the Sub-contractor’s premises for compliance with the Specifications.
- Mechanical Jacks shall be tested to the SWL and the load test certificate shall be provided.
- Fabricated components shall be inspected at the Vendor’s works for compliance with the component drawings. Sub-Assemblies shall be inspected at the Vendor’s works for compliance with the Sub-Assembly drawings and for performance requirements.

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	SS1 SEGMENT TILTING FIXTURE	SHEET : 15 OF 21

- Full Assembly of the platforms shall be inspected at Purchaser's premises after site assembly for compliance with the Assembly Drawings and performance requirements.
- After the award of contract, CONTRACTOR shall prepare detailed Quality Assurance Plan (QAP) for inspection & testing of all subassemblies / components of the Tilting Fixture. The QAP shall be reviewed and approved by the Third Party Inspection Agency and the PURCHASER. Indicative QAP for Tilting Fixture is enclosed in Section C of this specification.
- The procedure to be followed for testing the accuracy requirements for Platforms shall be as specified by the PURCHASER.
- All measuring and testing instruments / equipment required for carrying out all tests at VENDOR's works and at PURCHASER's site shall be provided by the Contractor.

6.9.1 TESTING AT MANUFACTURER'S WORKS

- Control assembly of the tilting fixture and No load functional checks of the complete tilting fixture and mechanical jacks shall be carried out at SLC site.
- Control assembly of the fixture involves following things:
 - A-Frames / Side frames shall be positioned on the level bed/platform
 - L-Frame along with the Tilting frame shall be assembled to the side frames through the Trunion shaft.
- No load functional checks includes following activities:
 - Dimensions, various clearances, surface finish etc as specified in drawings.
 - Verification of Levelling, alignment of all sub systems.
 - Free rotational movement of the Tilting Fixture. L-Frame shall be tilted to Horizontal and Vertical conditions
 - Satisfactory working of Mechanical jacks.

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	SS1 SEGMENT TILTING FIXTURE	SHEET : 16 OF 21

- Suitable match markings are to be done before dismantling.

6.9.2 TESTING AT SITE.

- SS1 segment tilting fixture shall be load tested with dummy load at SLC site, after erection and commissioning.
- Dummy load for the load test activities will be provided by department.
- Deflection and strain values as per departmental designer's requirements shall be measured as per QAP.

7. DOCUMENTS TO BE SUBMITTED

7.1 PRIOR TO START OF FABRICATION WORK

- a) Fabrication and machining procedure to be followed.

7.2 DURING FABRICATION

- a) Raw materials identification & physical and chemical test certificates for all materials used in manufacturing of the equipment.
- b) Details of stage wise inspection and rectification records if any for fabricated items and machined articles.

7.3 AFTER COMPLETION OF FABRICATION

- a) DP reports for root and final weld passes.
- b) UT test reports for plate thicknesses 20 mm or above.
- c) Radiography reports for all butt welds as per the requirement projected in the drawing.
- d) Dimensional inspection report.
- e) Stress relieving chart as applicable.

8. COMPLIANCE TO STANDARDS

All the items supplied or used shall be new and of first quality and shall be manufactured/ fabricated and tested in accordance with the latest editions of the relevant Indian / International Standards. All components shall be manufactured in accordance with the relevant standards published in the country of manufacture after allowing for the specific aspects under the Indian site conditions such as tropical station etc. Any components or systems where no specific standards are

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: B
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applicable shall be fabricated as per the instructions and directions of the purchaser or its authorized nominee.

8.1 CODES AND STANDARDS

- The procurement, manufacture, inspection, testing and performance of the Tilting Fixture shall comply with all currently applicable statutes, regulations and safety codes in the locality where the equipment is to be installed. The equipment shall also conform to the latest applicable Indian or equivalent standards. Other international standards are also acceptable, if these are established to be equal or superior to the listed standards. Nothing in this specification shall be construed to relieve the CONTRACTOR of this responsibility.
- The following are some of the codes and standards relevant to this specification.

IS:2062	Hot rolled medium and High tensile Structural Steels
IS:1367 part13	Technical supply conditions for threaded fasteners Hot-dip galvanized coatings (second revision)
IS:800	Code of practice for use of structural steel in general building construction.
IS: 1364	Hexagonal Head bolts, Screws and nuts of product grades A and B.
IS:816	Code of Practice for Use of Metal Arc Welding for general Construction in Mild Steel.
IS:823	Code of Practice for Use of Metal Arc Welding of Mild Steel.
IS:1181	Qualifying Tests for Metal Arc Welders (Engaged in Welding Structures other than pipes).
IS:1323	Code of Practice for Oxy-Acetylene Welding for Structural Work in Mild steel.
ASTM E94	Standard Guide for Radiographic Examination
ASTM E165	Standard Test Method for Liquid Penetrant Examination
ASTM E709	Standard Guide for Magnetic Particle Examination
ASTM A370	Standard Test Methods and Definitions for Mechanical Testing of Steel Products
ASTM A388	Standard Practice for Ultrasonic Examination of Steel Forgings
ASTM A275	Standard practice for Magnetic Particle Examination of Steel Forgings

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	SS1 SEGMENT TILTING FIXTURE	SHEET : 18 OF 21

9. QUALITY OF MATERIALS AND WORKMANSHIP

All equipment, materials and articles incorporated in the work should be new, free from defects and of the most suitable grade for the purpose intended. All work under this contract shall be performed in a skilful and workman-like manner and shall be consistent with the best practices of the industry.

If at any time SDSC SHAR (ISRO) notifies that any such equipment, material, article or workmanship fails to meet the foregoing standards, the contractor shall promptly take all the remedial steps required to meet those standards.

SL. NO.	COMPONENT/ OPERATION	CHARACTERISTICS TO BE CHECKED	METHOD OF CHECKING	CATEGORY	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORDS	INSPECTION AGENCY		REMARKS
									VR	IS	
A. MATERIAL (RAW MATERIALS & BOUGHTOUTS)											
1	Rolled plates & sections, Forgings & Castings	a. Appearance	Visual	Major	100%	IS:2062	Freedom from defects like pitting, cracks	--	H	R	
		b. Properties	Chemical analysis & physical test	Major	100%	IS:2062	Drawing, specification	Mill test certificates/ Lab reports	H	R	
		c. Internal flaws	UT	Critical	100% for plates ≥20mm thick, 100% for Castings & Forgings	ASTM A435	Specification	NDT reports	H	R	
2	Fasteners (high tensile bolts & nuts etc.)	a. Quality	Visual	Major	Sample check as per relevant specification	IS:1367	a. No cracks b. Proper matching with nuts	IR	H	R	
		b. Chemical composition & physical properties	Chemical analysis, mechanical test	Major	Sample check as per relevant specification	IS:1367	IS:1367 Part III	Manufacturer's test certificates	H	R	
		c. Dimensional	Measurements	Major	Sample check as per relevant specification	IS:1367	IS:1367 Part III & XIII		H	R	
3	Mechanical Jacks	Dimensional conformance	Measurements	Major	100%	As per Manufacturer's Specification	As per Manufacturer's Specification	IR	H	R	
		Performance Tests	Verification	Major	100%	As per Manufacturer's Specification	As per Manufacturer's Specification	IR	H	R	
4	Bearings	Dimensional conformance	Measurements	Major	100%	As per Manufacturer's Specification	As per Manufacturer's Specification	IR	H	R	

Legend :

VR – Vendor

IS – ISRO

H – Carrying out responsibility

R – Review of records & results

W – Test/inspection to be witnessed

Signature

For VENDOR

Signature

For ISRO

Date :

Place :

SL. NO.	COMPONENT/ OPERATION	CHARACTERISTICS TO BE CHECKED	METHOD OF CHECKING	CATEGORY	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORDS	INSPECTION AGENCY		REMARKS
									VR	IS	
B. WELDING PROCEDURE, WELDER'S QUALIFICATION, ETC.											
1	Welding	WPS, Welder's & Welding operator's qualification	Test piece, Visual, Physical & NDT (RT)	Critical	100%	ASME Sec IX	ASME Sec IX	WPS, PQR & WPQ	H	R	
C. FABRICATION (Side frames, L-Frame, Tilting frame, Saddle Spacers, Access ladders & Jack support stands)											
1	Setting out / Layout / Marking	Layout	Measurement	Major	100%	Relevant drawings	Full scale layout to be checked before cutting	Shop register	H	R	
2	Fitup before welding.	Quality	Visual alignment & check of major dimensions	Major	100%	Drawings	a. proper edge preparation b. proper tack welds c. minimum gap for butt joints as per WPS d. DIN-8570	IR	H	R	Members requiring site welding shall be match marked at joining ends for site erection
3	Welding (fillet joints)	Profile, fillet size, overall physical appearance	Visual/ gauge, DP/ MPT after final welding	Major	100%	ASME SecVIII, Vol-1	Drawings	IR	H	R	10% DP test at random shall be done
4	Full penetration welding	a. Root inspection after back gouging	Visual & LPI	Major	100%	IS:3658	No cracks allowed	IR	H	R	
		b. Internal defects	UT / RT	Critical	Wherever asked in the drawing	ASME Sec-VIII, Vol-1	ASME Sec-VIII, Vol-1	Test report	H	R	
		c. Welding quality, surface defects	LPI / MPI	Critical	Wherever asked in the drawing	ASME Sec-VIII, Vol-1	ASME Sec-VIII, Vol-1	Test report	H	R	

Legend :

VR – Vendor

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Signature

For VENDOR

Signature

For ISRO

Date :

Place :

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)									SECTION: C
	QUALITY ASSURANCE PLAN FOR SS1 SEGMENT TILTING FIXTURE									SHEET: 3 of 5

SL. NO.	COMPONENT/ OPERATION	CHARACTERISTICS TO BE CHECKED	METHOD OF CHECKING	CATEGORY	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORDS	INSPECTION AGENCY		REMARKS
									VR	IS	
5	Dimensional inspection after welding & stress relieving	Dimensional	Measurement of major dimensions & full size shop layout checking	Major	100%	Drawing / DIN 8570	Drawings	IR	H	W	
D. GRIT BLASTING & PAINTING											
1	Grit blasting & painting	Paint thickness	Visual & measurement by paint thickness gauge	Major	At random for paint thickness	Drawing & specification	Drawings & specification	IR	H	R	
E. MACHINING (Bearing housing assembly, Trunion shaft, L-Frame mounting plates, Tilting frame, Saddle seating plates, etc.)											
1	Machining	Overall dimensions	Measurement & visual	Major	100%	Drawing	Drawing	IR	H	R	

Legend :

VR – Vendor

IS – ISRO

H – Carrying out responsibility

R – Review of records & results

W – Test/inspection to be witnessed

Signature

For VENDOR

Signature

For ISRO

Date :

Place :

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: C
	QUALITY ASSURANCE PLAN FOR SS1 SEGMENT TILTING FIXTURE	SHEET: 4 of 5

SL. NO.	COMPONENT/ OPERATION	CHARACTERISTICS TO BE CHECKED	METHOD OF CHECKING	CATEGORY	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORDS	INSPECTION AGENCY		REMARKS
									VR	IS	
F. CONTROL ASSEMBLY of Side frames, L-Frame, Tilting Frames, Saddles, Mechanical Jacks, etc. AT Vendor site											
1	Control assembly at vendor site	Dimensions, Leveling, Alignment of SS1 Segment Tilting Fixture and all sub systems etc., Various clearances, etc as specified in drawings.	Visual & measurement	Critical	100%	Drawing	Drawings	IR	H	H	Before dismantling, reference line and match marking to be punched.
		Free rotational movement of Tilting fixture, bearings, L-Frame movement of mechanical Jacks	Visual & measurement	Critical	100%	Drawing	Drawings	IR	H	H	Before dismantling, reference line and match marking to be punched

Legend :

VR – Vendor

IS – ISRO

H – Carrying out responsibility

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Signature

Signature

Date :

For VENDOR

For ISRO

Place :

SL. NO.	COMPONENT/ OPERATION	CHARACTERISTICS TO BE CHECKED	METHOD OF CHECKING	CATEGORY	EXTENT OF CHECK	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	FORMAT OF RECORDS	INSPECTION AGENCY		REMARKS
									VR	IS	
G. ERECTION & COMMISSIONING AT SLC SITE											
1	Fabricated material inspection	Visual, dimensional, review of TC & IR	Visual & measurement	Major	100%	TS & approved drawings	TS & approved drawings	IR	H	R	
2	Welding & welder qualification	WPS, Welder's & Welding operator's qualification	Test piece, Visual, Physical & NDT (RT)	Critical	100%	ASME Sec IX	ASME Sec IX	WPS, PQR & WPQ	H	R	
3	Positioning & alignment of Side frames, L-Frames, etc.	Position, level, alignment and other dimensions.	Measurement & visual	Major	100%	Drawing	Drawing	IR	H	H	
4	Welding	Preheat / inter-pass / sequence of welding	Visual	Major	100%	Drawing & TS	Drawing & TS	IR	H	H	
5	Complete welding	Visual, DPT, UT	Visual & UT	Major	100%	TS & drawings	TS & drawings	IR	H	H	
6	Dimensional check of whole assembly	Position, level, alignment and other dimensions, clearances	Measurement & Visual	Major	100%	Drawings	Drawings	IR	H	H	
7	Functional Test: Tilting and rotational movement of L-Frame & side frame assembly about the side frames	Clearances	Visual & measurement, smooth movement without jerks throughout the range of travel.	Major	100%	TS & drawings	TS & drawings	IR	H	H	

Legend :

VR – Vendor

IS – ISRO

H – Carrying out responsibility

R – Review of records & results

W – Test/inspection to be witnessed

Signature

Signature

Date :

For VENDOR

For ISRO

Place :

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)									SECTION: C
	QUALITY ASSURANCE PLAN FOR SS1 SEGMENT TILTING FIXTURE									SHEET: 6 of 5

Load Test: The complete tilting fixture shall be load tested with dummy load (dummy load will be arranged by department)	Deflection and strain values as per departmental designer's requirements.	Visual & measurement, smooth movement without jerks throughout the range of travel.	Major	100%	TS & drawings	TS & drawings	IR	H	H	
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Legend :

VR – Vendor

IS – ISRO

H – Carrying out responsibility

R – Review of records & results

W – Test/inspection to be witnessed

Signature

For VENDOR

Signature

For ISRO

Date :

Place :

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: D1
	SS1 SEGMENT TILTING FIXTURE	SHEET 1 OF 2

SCHEDULE OF PRICES (UN-PRICED COPY) & GENERAL PARTICULARS

1. Bidders shall not alter the contents of this schedule of prices. If the bidder wants any additions / alterations, these shall be brought out separately in the format as given in this schedule of prices.
2. Equipment and material to be supplied and erected shall be in accordance with section A, B & C of this specification.
3. The quoted price shall be price in Indian Rupees for Supply of material, manufacture, inspection and testing at manufacturer's works, packing, forwarding, transportation from place of manufacture to site, transit insurance, unloading / receipt at site, storage / handling and erection at site inclusive of all taxes and duties as applicable except sales tax on finished products, and service tax which shall be separately indicated in the price bid.

S.No	Item	Qty.	Cost in Rs.
1.	Fabrication, Machining, Assembly, Shop inspection, Packing, Forwarding, Transportation, Delivery of SS1 Segment Tilting Fixture at SLC site including unloading at storage site as per the enclosed specifications and drawings.	01 lot	
2.	Loading, transportation from the storage site to the erection site (NASPF), handling, erecting, testing, commissioning, performance / acceptance testing of SS1 Segment Tilting Fixture as per the enclosed specifications. This includes minor civil works for jacks/ fixture erecting.	01 lot	
3.	GST @ 5% for items 1 to 2		
	Total cost		

Note:

1. Cost off packing, forwarding and transportation shall be loaded to the unit rate, not to be quoted extra.
2. **Any bids/offers with price details in Techno-Commercial Offer (Part -I) shall be rejected.**
3. **Interest on advance will be loaded in cost to arrive L1.**
4. **Both the line items (SL no 1 & 2) are inter-related. Hence, overall L1 offer will be considered for placement of order.**

SIGNATURE: _____

NAME: _____

DESIGNATION: _____

DATE: _____

SEAL OF THE COMPANY

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SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: D2
	SS1 SEGMENT TILTING FIXTURE	SHEET 1 OF 2

BID QUALIFICATION CRITERIA FOR FABRICATION, PAINTING, SUPPLY, ERECTION AND COMMISSIONING OF SS1 SEGMENT TILTING FIXTURE FOR SLC

Bidders who are qualifying / meeting following Technical and financial criteria are eligible to participate in the bid for supply of SS1 Segment Tilting Fixture. Bidder shall furnish all the information mentioned in the criteria with documentary proof and submit along with quotation. Bids of the parties which are not meeting the following criteria will not be considered for evaluation and will be rejected without seeking any further clarifications.

A. TECHNICAL QUALIFICATION REQUIREMENTS

The bidder shall meet the following technical qualifying requirements and shall submit relevant certificates to establish his credentials.

1. The Bidder shall be an organization with minimum 5 years of experience ending by 31.05.2026 having executed contracts for fabrication and erection of structural items.
2. The bidder shall have successfully completed fabrication, Installation, testing and commissioning of heavy structural work during last seven (7) years ending with 31.05.2026 as follows:

Minimum 40 MT of structural works in a single work order

OR

Minimum 20 MT of structural works in two separate purchase order (each)

Bidders have to provide PO copy and corresponding Completion certificates or relevant certificates (like Final inspection reports, Despatch clearance from Client, Tax invoices , Delivery challan etc.) to proof the completion of the works successfully, along with the submission of bid for consideration of bid document.

3. The firm shall have facilities for fabrication and handling big structural items of 10 m long and 9 m wide for fitment, alignment, welding etc.

Bidders have to provide relevant documentary (shop layout with dimensions) proof for the above experience, along with the submission of bid for consideration of bid document.

B. FINANCIAL QUALIFICATION REQUIREMENTS

1. The bidder shall have successfully completed fabrication and erection of structural items during last Seven (7) years ending with 31.05.2026 as follows.

- One structural work costing not less than Rs.200 lakhs in a single order
- OR

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SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: D2	
	SS1 SEGMENT TILTING FIXTURE	SHEET 2 OF 2	
<ul style="list-style-type: none"> • Two structural works , each costing not less than Rs.125 lakhs; OR • Three structural works , each costing not less than Rs. 100 lakhs <p>Documentary proofs like PO, completion certificate or relevant documents like final inspection report, dispatch clearance from client, Tax invoices, delivery challan etc are to be submitted as proof of completion of the work order.</p> <ol style="list-style-type: none"> 2. The firm should have an average annual turnover of Rs. 100 Lakhs in the last three financial years ending with March 2025. 3. Bidder shall submit audited profit/loss & balance statement of financial status for last three years ending with March 2025. 4. Bidder shall submit ITR documents for the last three financial years ending with March 2025. 			
<p>C. THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED ALONG WITH THE TECHNO COMMERCIAL BID</p>			
<ol style="list-style-type: none"> 1. Firm establishment certificate and nature of work. 2. Details of work of similar type completed during the last ten years ending with 31.05.2026. 3. Satisfactory work Completion certificates from the clients, with the work order copies. 4. Solvency certificates from a commercial bank for a value not less than Rs. 100 lakhs and not before 6 months from the date of tender closing. 5. Structure and Organization chart. 6. List of personnel with qualification &. experience in the firm in the areas of design, production, quality, safety, administration etc., 7. List of Machinery & Equipment to be used for the work. 			
<p>D. BID SELECTION PROCEDURE AND PROCESS OF PRE-QUALIFICATION</p>			
<ol style="list-style-type: none"> 1. Short listing based on documents submitted, satisfying the all-eligibility criteria given above by the firm or individual along with their Bid / application. (No submission of any document as given in above list within stipulated time leads to rejection of Bid). 2. Subsequently Bidder's competency, their technical achievements and financial status will be evaluated suitable for this project. Feedbacks from Bidder's clients will be verified. 3. Visit to sites by technical team (ISRO or Third party) where Bidder has established above mentioned works. 4. If required, visit will be made to their factory/ firm by technical team (ISRO or third party) for accessing the capability of manufacturer. 5. Scrutiny of all technical specification and supply conditions mentioned in techno commercial bid. 			
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ISSUE R0			

SCHEDULE OF GENERAL PARTICULARS / VENDOR EVALUATION FORMAT

S. NO.	DESCRIPTION	RESPONSE
1.	Name of Company	
2.	Address of Company	
3.	Type of Company (Proprietary/Pvt.Ltd/Public Ltd/Joint Venure/Consortium)	
4.	Registration number	
5.	Year of inception of the company	
6.	Registered address	
7.	Name & address of the office of the Chief Executive of the company	
8.	Name & Designation of the officer of the Bidder to whom all correspondence shall be made for expeditious technical/ commercial co-ordination. Telephone number Fax number E-mail address	
9.	Locations of the Branches of Company (if any)	
10.	Annual turn-over of the company for the last three years	
11.	Major customers (Enclose copies of the Purchase Orders)	
12.	Any customers feedback on the services which is in writing (Pl. enclose copies)	
13.	Quality certification of the company	
14.	Orders executed during last three years, (Separate sheet can be attached).	
15.	Shop floor area covered	
16.	No. of employees	
17.	Handling facility available:	
18.	Welding professionals:	
19.	Details of inspection facilities / Instruments available (Brief description & specifications shall be provided)	
20.	Bid validity period (Min. 4 months from date of bid opening)	

SIGNATURE :

NAME :

SEAL OF THE COMPANY DESIGNATION :

COMPANY :

DATE :

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R0

EXCEPTIONS AND DEVIATIONS

In line with Proposal Document, Bidder may stipulate Exceptions and deviations to the proposed conditions if considered unavoidable.

S.No	Reference in Specification		Dept. Specification	Offered Specification	Deviation
	Page no	Clause no			

NOTE:

- Only deviations are to be written in the above form.
- Any deviations taken by the Bidder to the stipulations of the Proposal document shall be brought out strictly as per this format and enclosed along with the bid.
- Any deviations not brought out in this Proforma and written elsewhere in the Proposal document shall not be recognized and the same is treated as null and void.
- Any wilful attempt by the Bidders to camouflage the deviations by giving them in the covering letter or in any other documents that are enclosed may render the Bid itself non-responsive.

SIGNATURE: _____

NAME: _____

DESIGNATION: _____

DATE _____

SEAL OF THE COMPANY

SPEC: SLC/STF/2026	SSLV LAUNCH COMPLEX (SLC)	SECTION: D5
	SS1 SEGMENT TILTING FIXTURE	SHEET: 1 of 1

SCHEDULE OF BIDDERS EXPERIENCE

The bidder shall furnish here under a list of works executed by him to whom a reference may be made by the PURCHASER in case the PURCHASER considers such a reference necessary.

S. NO.	Name & address of Client / Name & address of project or plant (incl. Tel.no., fax no., e-mail and name & Designation of person who can be contacted.	Purchase Order / Contact no. and Date.	Brief details of equipment / system covered	Scope of services	Contract price (Rs)	Scheduled date of completion	Actual date of completion	Reasons for delay in completion, if applicable.	REMARKS

SIGNATURE :
NAME :
DESIGNATION :
COMPANY SEAL:

**DATA TO BE FILLED ALONG WITH THE BID FOR SUPPLY & COMMISSIONING OF
SS1 SEGMENT TILTING FIXTURE**

S. NO.	DESCRIPTION	TENDERS OFFER
1	Confirm that the system shall be realised as per technical specification, approved manufacturing drawings, bill of material to meet the functional requirement.	Yes / No
2	Confirm that all the bought-out items are to be procured as per the specification from the approved parties	Yes / No
3	Confirm that fabrication of all items shall be done as per IS: 800 & tolerance in fabrication shall be maintained as specified in relevant drawings.	Yes / No
4	Confirm that all sub-assemblies shall be tested for proper functioning, free running, bearing noise etc. & shall be brought to site in grease packed condition.	Yes / No
5	Confirm that all the items shall be painted as per painting scheme.	Yes / No
6	Erection sequence shall be submitted along with offer.	Yes / No
7	Manufacturing schedule & Erection schedule shall be submitted along with offer.	Yes / No
8	Confirm that, it agreed by vendor for supplying minor spacer plates for erecting the tilting fixture for alignment purpose	Yes / No
9	Confirm that, it is agreed by vendor for carrying minor civil works for erecting the jacks and tilting fixture. Cost for the same is included in the offer	Yes / No
10	Confirm that, vendor has considered extra 4t of supply, fabrication & erection of structural items for providing the ladders to the tilting fixtures as per the site condition to approach different locations of tilting fixture	Yes / No
11	Confirm that, vendor has considered cost for belts to secure the segments.	Yes / No
12	Confirm that, vendor has offered Jacks as per the technical specifications mentioned in the drawing and tender specifications.	Yes / No
13	Confirm that testing and commissioning of the total system shall be carried out as per specification.	Yes / No
14	Confirm that QAP for fabricated items machined items, Subassemblies and for total platform in assembled condition shall be submitted for approval.	Yes / No

SIGNATURE: _____

NAME: _____

DESIGNATION: _____

DATE _____

SEAL OF THE COMPANY

CHECK LIST

S.No	Description	Response by supplier
1	All documents related to Prequalification criteria mention in Section D2 have been met and all related documents are enclosed in technical Bid	Yes / No
2	Are all the technical particulars as called for in the data sheets section A, B, C, & Annexure D1 to D7 and commercial details as called for in schedule of prices are filled up.	Yes / No
3	The detailed scope of work and technical specifications are understood and price was quoted accordingly.	Yes / No
4	Confirmation that the quoted prices are firm and fixed till the completion of scope of work.	Yes / No
5	Validity of Offer is 4 months (minimum).	Yes / No
6	Vendor Evaluation Format is attached	Yes / No
8	Delivery Schedule with milestones	Yes / No
9	Acceptance of departmental payment terms & conditions as per para no.17 of Section A2	Option 1(With Advance) / Option 2 (Without advance)
10	Are General terms and Conditions of Contract for Supply & Erection included in proposal acceptable?	Yes / No
11	If not acceptable, are the deviations brought out in the "Schedule of Deviations"	Yes / No
12	Are there any deviations from enquiry technical specifications?	Yes / No
13	If there are technical deviations, are these filled in "Schedule of Deviations from Tech. Specifications"?	Yes / No
14	Warranty for the fully commissioned and accepted system is 12 months	Yes / No
15	PBG of 3% as per clause 9.1 of Section-A2	Yes / No
16	SD of 3% as per clause 9.2 of Section-A2	Yes / No
17	Combined BG for SD & PBG for 3% as per clause 9.3 of Section-A2	Yes / No
18	Liquidated Damages as specified in the specification document are acceptable	Yes / No
19	Last three years audited financial results are enclosed	Yes / No
20	Registration certificate of the company is enclosed	Yes / No
21	All the forms in Section D1 to D7 are filled	Yes / No
23	Un priced copy enclosed along with technical-unpriced bid.	Yes / No
24	Section Priced Bid Format (D1) filled in E-procurement portal Price Bid form only.	Yes / No
25	Signed copy of the complete RFP document is submitted.	Yes / No

SIGNATURE: _____

NAME: _____

DESIGNATION: _____

DATE _____

SEAL OF THE COMPANY

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