

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
श्री पोष्टि श्रीरामुलु नेल्लूर जिला, आं.प्र., भारत
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Government of India
Department of Space
Satish Dhawan Space Centre SHAR
Shriharikota Range P.O. 524 124
SPSR Nellore Dist., AP., India
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निविदा सूचना सं. TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/RO-VALF/18/2026

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

क्र.सं. SI No	संदर्भ सं. Ref. No.	विवरण Description	मात्रा Qty
01.	SDSC SHAR /VALF PURCHASE / VALF/ 2026000411	Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 1) along with pneumatic components	01 Set
	Fabrication, painting, supply of SSLV assembly fixtures [Public Tender - Two Part]	Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 2) along with pneumatic components	01 Set
		Fabrication, Painting and Supply of SS2 & SS3 roller stands	01 Set
		Fabrication, Painting and Supply of SS2 motor tilting system	01 Set
		Fabrication, Painting and Supply of SS1 Nozzle Protection Structure	01 Set

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 13.04.2026 at 16:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 13.04.2026 at 16:30 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 14.04.2026 at 10:30 hrs.

निविदाकार के लिए निर्देश Instructions to Tenderers:

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

- कार्य के सम्पूर्ण विवरण/जानकारी तथा नियम व शर्तों इत्यादि के लिए संलग्न अनुलग्नक को देखें। / For full details/scope of work and terms and conditions etc., please see the enclosed annexures.
- इच्छुक निविदाकार इसरो की ई-खरीद वेबसाइट इसरो न्यू ई-प्रोकुरमेंट www.eproc.vssc.gov.in से ई-निविदा डाउनलोड और अपनी निविदा ई-खरीद पोर्टल पर ऑनलाइन जमा कर सकते हैं। डाक / वाहक / स्वयं द्वारा प्राप्त निविदाओं पर विचार नहीं किया जाएगा। / Interested tenderers can download the e-tender from ISRO e-procurement website ISRO NEW E-PROCUREMENT www.eproc.vssc.gov.in and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.
- निविदा दस्तावेज इसरो की वेबसाइट www.isro.gov.in इसरो न्यू ई-प्रोकुरमेंट वेबसाइट www.eproc.vssc.gov.in तथा सतीश धवन अंतरिक्ष केंद्र शार की वेबसाइट www.shar.gov.in पर भी उपलब्ध हैं। इन्हें केवल ई-खरीद पोर्टल से डाउनलोड और निविदा ऑनलाइन जमा कर सकते हैं। / Tender documents are also available on ISRO website www.isro.gov.in ISRO New e-procurement website www.eproc.vssc.gov.in and SDSC SHAR, Sriharikota website www.shar.gov.in. The same can be down loaded and offer submitted on line in the new e-procurement portal only.
- निर्धारित तिथि/समय के पश्चात प्राप्त बोलियों पर विचार नहीं किया जाएगा। / Quotations received after the due date/time will not be considered.
- निविदा दस्तावेज दिनांक 13.04.2026 को 16:00 बजे तक डाउनलोड करने के लिए उपलब्ध रहेंगे तथा निविदा ऑनलाइन जमा करने की अंतिम तिथि 13.04.2026 को 16:30 बजे तक है। निविदाएं दिनांक 14.04.2026 को 10:30 बजे खोली जाएंगी। / The tender documents are available for download upto 13.04.2026 at 16:00 hrs. and last date for submission of tenders on line 13.04.2026 at 16 30 hrs. and Tender Opening on 14.04.2026 at 10:30 hrs.
- इच्छुक विक्रेता विवरण जानने के लिए निविदा खोले जाने वाले सत्र में शामिल हो सकते हैं। निविदा के मूल्यांकन पर विचार करने के लिए उनकी उपस्थिति अनिवार्य नहीं है। / Interested vendors can attend the Bid opening sessions to know the details. Presence not mandatory to consider the quote for evaluation.
- वरि. प्रधान क्रय एवं भंडार, सतीश धवन अंतरिक्ष केंद्र श्रीहरिकोटा के पास किसी भी या सभी निविदाओं को स्वीकार / अस्वीकार करने का अधिकार है। / Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.
- GeM ARPTS Report ID: GEM/GARPTS/05032026/TII2SFVYZHBB

दिनांक DT: 20.03.2026

भारतीय अंतरिक्ष अनुसंधान संगठन



वरि. प्रधान क्रय एवं भंडार
Sr. HEAD PURCHASE AND STORES
Indian Space Research Organisation

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

Tender for Fabrication, painting, supply of SSLV assembly fixtures

Bids to be submitted online

Tender No.: SDSC SHAR/VALF PURCHASE/SH202600041101 dated 23-03-2026

A. Tender Details

Tender No : **SDSC SHAR/VALF PURCHASE/SH202600041101**

Tender Date : **23-03-2026**

Tender Classification: **GOODS**

Purchase Entity : **VALF PURCHASE**

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

Fabrication, painting, supply of SSLV assembly fixtures

GEM/GARPTS/05032026/TII2SFVYZHHB

As per tender documents.

A.1 Tender Schedule

Bid Submission Start Date : **23-03-2026 11:00**

Bid Clarification Due Date : **08-04-2026 10:00**

Bid Submission Due Date : **13-04-2026 16:30**

Bid Opening Date : **14-04-2026 10:30**

Price Bid Opening Date : **14-05-2026 10:00**

B. Tender Attachments

NA

Instructions To Vendors

1. 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.

2. 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 SHALL PREVAIL OVER OTHER TERMS AND CONDITIONS(in case of any contradiction or ambiguity)

3. General Instructions to Vendor

1. Instructions to tenderers

TeleNo.08623-225174/225127

Fax No.08623-225170/22-5028

e-Mail ID : hps@shar.gov.in, sselvan@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 IF NOT MENTIONED IN THE RFP SPECIFICATION.

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

5. TWO PART BIDS: In case of Two part tender, price details shall not be uploaded in the Technical &

Commercial Bids (Part I), failing to which the bid will be treated as INVALID.

6. The offer should be valid for a minimum period of 180 days for 2 part / 90 days for single part from the date of opening.

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

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

8.

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

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

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

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

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

(b) Samples, if called for, should be submitted free of all charges by the tenderer and the Purchaser shall not be responsible for any loss or damage thereof due to any reason whatsoever. In the event of non-acceptance of tender, the tenderer will have to remove the samples at his own expense.

(c) Approximate net and gross weight of the items offered shall be indicated in your offer. If dimensions details are available the same should be indicated in your offer.

(d) Specifications: Stores offered should strictly conform to our specifications. Deviations, if any, should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples wherever necessary. Test certificates wherever necessary should be attached. Whenever options are called for in our specifications, the tenderer should address all such options. Wherever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate response for the same.

12. The purchaser shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of quantity offered and the tenderers shall supply the same at the rates quoted.
13. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail.
14. The tenderer will be required to furnish a document containing the name of his bankers as well as the latest income-tax clearance certificate duly counter signed by the Income-tax Officer of the Circle concerned under the Seal of his office, if required by the Purchaser.
15. The Purchaser reserves the right to place order on the successful tenderers for additional quantity up to 25% of the quantity offered by them at the rates quoted.
16. Sr. Head, Purchase and Stores, SDSC SHAR SRIHARIKOTA reserves the right to accept or reject any bid in part or full without assigning any reason thereof.
17. Any bidder from a country which shares a land border with India will be eligible to bid in any procurement whether of goods, services (including consultancy services and non-consultancy services) or works (including turnkey projects) only if the bidder is registered with Competent Authority as specified in Office Memorandum no.F.No.6/18/2019-PPD, Ministry of Finance, Department of Expenditure, Public Procurement Division dated 23rd July 2020. All the conditions mentioned in the above OM is applicable for this tender.

C. Bid Templates

C.1 Technical Bid - Fabrication, painting, supply of SSLV assembly fixtures

1. FABRICATION: Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 1) along with pneumatic components as per attached RFP document and list of drawings sl. no. 1 of section D

Document : RFP document for SSLV Fixtures (Applicable for item no 1 to 5)

Document : Drawings of SS1 Nozzle Assembly Tower (Module – 1)

Document : Drawings of Pneumatic Circuit for NAT-1

2. FABRICATION: Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 2) along with pneumatic components as per attached RFP document and list of drawings sl. no. 2 of section D.

Document : Drawings of SS1 Nozzle Assembly Tower (Module – 2)

Document : Drawings of Pneumatic Circuit for NAT-2

3. FABRICATION : Fabrication, Painting and Supply of SS2 & SS3 roller stands as per attached RFP document and list of drawings sl. no. 3 of section D.

Document : Drawings of SS3 roller stands

Document : Drawings of SS2 roller stands

4. FABRICATION : Fabrication, Painting and Supply of SS2 motor tilting system as per attached RFP document and list of drawings sl. no. 4 of section D.

Document : Drawings of SS2 NPS

Document : Drawings of SS2 Motor Tilting Fixtures

Document : Drawings of SS2 Common handling tackle

5. FABRICATION: Fabrication, Painting and Supply of SS1 Nozzle Protection Structure as per attached RFP document and list of drawings sl. no. 5 of section D.

Document : SS1 Nozzle Protection Structure

Common Specifications (Applicable for all items)

Sl No	Specification	Value	Compliance	Offered Specification	Remark
1	Fabrication, Painting, Supply and Erection & Commissioning of of item no 1 & 2	Shall be as per RFP document and attached drawings	Yes / No / Explain		
2	Fabrication, Painting, Supply of of item no 2, 3, 4 and 5	Shall be as per RFP document and attached drawings	Yes / No / Explain		
3	Evaluation of L1 offers	Item wise L1 price shall be considered.	Yes / No / Explain		

Supporting Documents required from Vendor

- 1. As mentioned in annexure of the RFP document**
- 2. Please upload Annexure duly sealed & signed by your competent authority**
- 3. Udyam Certificate if claiming MSE purchase preference.**
- 4. Self-declaration indicating percentage of local content along with location of value addition.**
- 5. Turnover of last three FY**
- 6. Experience certificate as mentioned in the attached RFP**
- 7. Audited balance sheet**
- 8. Current Solvency Certificate for an amount of Rs. 60 Lakhs**
- 9. Technical Literature**

10. Data sheets

11. Project execution plan

5 additional documents can be uploaded by the vendor

C.2 Commercial Terms / Bid

Sl. No.	Description	Compliance	Vendor Terms
1	As per term & conditions of the attached RFP document.	Yes / No / Explain	
2	The procurement intended for the bonafide use in Systems/Sub-systems of Launch Vehicle Project of Indian Space Research Organization, Government of India, Department of Space and eligible for IGST@5% as per guiding principles conveyed by the Ministry of Finance Dept. of Revenue Notification No. 25/2018-Integrated Tax (Rate) Schedule-I; Sl. No. 243B dated 31.12.2018 (Amendment to Notification No. 07/2018-Integrated Tax (Rate) dated 25.01.2018 and Notification No. 01/2017- Integrated Tax (Rate) dated: 28.06.2017) End User Certificate shall be issued in this effect in the event of PO.	Yes / No / Explain	
3	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 is Inclusive OR Extra in basic cost" it will be treated as "GST is included in the quoted Basic/Unit cost in the price bid". Your offer will be evaluated as INCLUSIVE OF GST.	Yes / No / Explain	
4	Delivery Term FOR : SDSC SRIHARIKOTA (MANDATORY)	Yes / No / Explain	
5	Packing and Forwarding(P & F) charges, extra if any, please mention percentage in price-bid. Please note that in case of Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.	Yes / No / Explain	
6	Freight charges, extra if any, please mention percentage in price-bid Please note that in case of Two part tenders, only percentage should be mentioned otherwise those offers shall be summarily rejected.	Yes / No / Explain	
7	Delivery Period required for delivery of the items/completion of total scope of work: As per para no. 26 of Section B of RFP.	Yes / No / Explain	

8	<p>Payment Term:</p> <p>Option-1: I. 20% of PO cost as Advance against submission of Advance Bank Guarantee (ABG) for an equal amount from a Nationalized/Scheduled bank valid till successful completion of execution of contractual obligations plus 60 days. II. 70% of PO cost along with 100% GST against receipt of complete material at our site and clearance by CLIP. III. 10% of PO cost after successful assembly, demonstration, testing, repacking & acceptance by CLIP and on submission of PBG.</p> <p>OR</p> <p>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.</p> <p>Note: 1. Please clearly mention your payment option as mentioned above either OPTION 1 or OPTION 2 2. On option of advance payment, there shall calculation of rate of Interest on the portion of advance for arriving L1 for evaluation purpose. 3. After release of advance payment, any delay attributable to the supplier in effecting the scope of PO after prescribed delivery period, interest will be levied beyond the specified delivery period on the amount of balance advance payments as per the Prime Lending Rate of RBI. 4. In case of non-performance/poor performance, advance payment shall be recovered from supplier with interest as per the Prime Lending Rate of RBI along with 2% penal interest from the date of release of advance payment and the BG against advance payment shall be forfeited.</p>	Yes / No / Explain	
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9	Warranty/Guarantee: Warranty/Guarantee for the offered item shall be from the date of acceptance of the item at our site for a minimum period of one year or specified in the tender document.	Yes / No / Explain	
10	Liquidated Damages (LD) :- Since delivery is the essence of this order, LD @ 0.5% per week or part thereof subject to a maximum of 10% of the order value for the delayed period of supply.	Yes / No / Explain	
11	Security Deposit (SD) 3% value of the order shall be deposited with SDSC within 10 days from the date of the Purchase Order towards security deposit in the form of Bank Guarantee(BG)/ FDR/DD towards performance of the Contract valid till completion of the contract period plus sixty days towards claim period. (This will be returned by SDSC immediately on execution of the order satisfactorily as per order terms. If not, the amount will be forfeited). NOT REQUIRED FOR LANDED COST BELOW RS.5 LAKHS.	Yes / No / Explain	
12	Performance Bank Guarantee (PBG) You have to submit a BG/DD/FDR in lieu of PBG from a Nationalized / Scheduled Bank for 3% of the order value at the time of supply valid till the completion of warranty period plus 60 days towards claim period.	Yes / No / Explain	
13	Combined BG for PBG cum SD In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 3% of the Order value valid till the completion of total contractual obligation (i.e., Supply period plus warranty period plus 60 days). Please confirm.	Yes / No / Explain	
14	Insurance Being a Govt. Of India Dept., Insurance is not required at our cost. Please ensure the safe delivery of the ordered item with proper transport worthy packing.	Yes / No / Explain	

15	<p>Validity of Offer In case of single part tender - the validity of offers/tenders should be 90 days. In case of two part tender - 120 days from the date of opening of Part-I bid and 60 days from the date of opening of Part-II bid. Tenders shorter than offer validity mentioned above will not be considered for evaluation.</p>	Yes / No / Explain	
16	<p>PART ORDER: We reserve the right to place part order based on item wise L1 offer or if MSE/MII Purchase preferences arise, if required. Please confirm acceptance for part order.</p>	Yes / No / Explain	
17	<p>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.</p>	Yes / No / Explain	
18	<p>As per the above Order, are you (the Bidder/Company/Entity) OR offering product/service is from such a Country sharing Land border with INDIA.</p>	Yes / No / Explain	

19	<p>Make-In-India (MII) Clause: Provisions contained in Public Procurement Policy (Preference to Make in India), Order 2017 issued by DPIIT vide OM No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 & directives related including latest amendments (if any) is applicable for this tender.</p> <p>You are requested to provide Self Declaration Certificate that the offered Item meets Local Content Requirement of Class 1 or Class 2 as per Make in India(MII) Policy, clearly indicating the Percentage of local content & the details of Location(s) at which value addition is made in the offered product.</p> <p>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.</p>	Yes / No / Explain	
20	<p>Please mention in PERCENTAGE the Value addition of offered products happened in INDIA in line with Make In India Policy. (Mandatory). You have to upload MII Declaration mentioning place and percentage of value addition along with Offer.</p>	Yes / No / Explain	

21	<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. If the bidder wants to avail the Purchase preference, the BIDDER MUST BE MANUFACTURER OF THE OFFERED PRODUCT in case of bid for supply of goods. TRADERS ARE EXCLUDED from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence along with UDYAM REGISTRATION in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 plus 15% (Selected by Buyer) of margin of purchase preference/price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total QUANTITY.</p>	Yes / No / Explain	
22	<p>Are you claiming MSME Preference for this tendered item/service?</p> <p>Note: You should have been the MANUFACTURER of the offered product or SERVICE Provider of the said service (in service tender) as per your MSME Registration. (If YES, valid Udyam Registration documents shall be uploaded. Otherwise your claim will not be considered. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h))</p>	Yes / No / Explain	
23	<p>Please Select for the offered Product whether you are: (1) Manufacturer (2) Authorized Agent (3) Distributor (4) Dealer (5) Reseller (6) Others</p>	Yes / No / Explain	

24	<p>ARBITRATION:- The Contract/PO shall be interpreted, construed and governed by the Laws in India. 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/PO, such dispute/s or difference/s or claim/s shall be settled amicably by mutual consultations of the good Office of the respective Parties and recognizing their mutual interests attempt to reach a solution satisfactory to both the parties. If such a resolution is not possible, within 30 days from the date of receipt of written notice of the existence of such dispute/s, then the unresolved dispute/s or difference/s or claim/s shall be referred to the Sole Arbitrator appointed by the Parties by mutual consent in accordance with the rules and procedures of Arbitration and Conciliation Act 1996 as amended from time to time. The arbitration shall be conducted in Bengaluru in the Arbitration and Conciliation Centre - Bengaluru (Domestic and International) as per its rules and regulations. The expenses for the Arbitration shall be shared equally or as may be determined by the Arbitrator. The considered and written decision of the Arbitrator shall be final and binding between the Parties. The applicable language for Arbitration shall be English only.</p>	Yes / No / Explain	
25	<p>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 shall be 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.</p>	Yes / No / Explain	
26	<p>Address on which PO is to be placed and GSTIN</p>	-	
27	<p>Please provide valid/currently using E-mail Id & Contact no. for seeking further clarifications if any</p>	-	
28	<p>Remarks if any.</p>	-	

C.3 Price Bid

Sl. No.	Item	Quantity	Unit Price	Currency	Total Price	P&F IN PERCENTAGE	FREIGHT PERCENTAGE	Remark
1	FABRICATION: Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 1) along with pneumatic components as per attached RFP document and list of drawings sl. no. 1 of section D	1.00 Sets		-				
2	FABRICATION: Fabrication, Painting, Supply, Erection & Commissioning of SS1 Nozzle Assembly Tower (Module – 2) along with pneumatic components as per attached RFP document and list of drawings sl. no. 2 of section D.	1.00 Sets		-				

3	FABRICATION : Fabrication, Painting and Supply of SS2 & SS3 roller stands as per attached RFP document and list of drawings sl. no. 3 of section D.	1.00 Sets		-				
4	FABRICATION : Fabrication, Painting and Supply of SS2 motor tilting system as per attached RFP document and list of drawings sl. no. 4 of section D.	1.00 Sets		-				
5	FABRICATION: Fabrication, Painting and Supply of SS1 Nozzle Protection Structure as per attached RFP document and list of drawings sl. no. 5 of section D.	1.00 Sets		-				

**ANNEXURE TO INDENT NO: SDSC SHAR/ VALF PURCHASE /VALF
2026000411**

REQUEST FOR PROPOSAL (RFP)

FOR

**FABRICATION, PAINTING AND SUPPLY OF
SSLV ASSEMBLY FIXTURES**

SPECIFICATIONS & PRICE SCHEDULE

OWNER : INDIAN SPACE RESEARCH ORGANISATION
ENTITY : VEHICLE ASSEMBLY AND LAUNCH FACILITIES
LOCATION : SATISH DHAWAN SPACE CENTRE, SRI HARIKOTA



**VEHICLE ASSEMBLY AND LAUNCH FACILITIES (VALF)
SATISH DHAWAN SPACE CENTRE
SRIHARIKOTA - 524124.
INDIAN SPACE RESEARCH ORGANISATION**

VALF/SSLV/2026-01	VEHICLE ASSEMBLY AND LAUNCH FACILITIES	SECTION: TITLE
	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	SHEET 2 of 2

**REQUEST FOR PROPOSAL FOR SSLV ASSEMBLY FIXTURES
SPECIFICATIONS & ANNEXURES**

SECTION	SPECIFICATION NO	ISSUE NO	TITLE: REQUEST FOR PROPOSAL FOR SSLV ASSEMBLY FIXTURES
SPECIFICATIONS			
A	VALF/SSLV/2026-01	R0	GENERAL TERMS AND CONDITIONS
B	VALF/SSLV/2026-01	R0	GENERAL SPECIFICATIONS
C	VALF/SSLV/2026-01	R0	TECHNICAL SPECIFICATIONS
D	VALF/SSLV/2026-01	R0	LIST OF DRAWINGS
E	VALF/SSLV/2026-01	R0	QUALITY ASSURANCE PLAN
ANNEXURES			
F1	VALF/SSLV/2026-01	R0	SCHEDULE OF PRICES (UN PRICED COPY) & GENERAL PARTICULARS
F2	VALF/SSLV/2026-01	R0	BID QUALIFICATION CRITERIA
F3	VALF/SSLV/2026-01	R0	VENDOR EVALUATION FORMAT
F4	VALF/SSLV/2026-01	R0	EXCEPTIONS AND DEVIATIONS
F5	VALF/SSLV/2026-01	R0	SCHEDULE OF BIDDER'S EXPERIENCE
F6	VALF/SSLV/2026-01	R0	DATA TO BE FILLED WITH BID
F7	VALF/SSLV/2026-01	R0	CHECK LIST

ISSUE
R0

SECTION –A

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.

Experienced Bidders meeting the bid-qualification criteria given in Section-F2 shall quote.

The RFP document is organized in five sections as follows.

Section – A: General Terms and Conditions of the Contract

Section – B: General Specifications

Section – C: Scope of PO and General Project Information

Section – D: Technical Specifications.

Section – E: Quality Assurance Plan.

Section – F: Annexures

Title of the proposal:

***“Fabrication, Painting, Supply, Erection
& Commissioning of
SSLV Assembly Fixtures as per specification”***

Date of Public Notification issued by ISRO: **as per notification**

Last Date of downloading tender Document by tenderer: **as per notification**

Last date of submission of tender documents in online by tenderer: **as per notification**

Last date of Bid sealing online by ISRO: **as per notification**

Last date for giving open authorisation online by tenderer: **as per notification**

1. PROPOSAL DOCUMENT

- 1.1. Successful Bidder shall sign & stamp each page of the tender document (RFP) as token of his acceptance and submit the same before order placement.
- 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 (Un-priced Techno-commercial bid) with a complete set of the required documents shall be up-loaded in ISRO e-procurement website.
- 1.5. 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 surroundings 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).

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 F1. 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 Un-priced Commercial Part

Technical and un-priced commercial part shall comprise the following attachments 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-F1 to F7 enclosed in proposal duly filled, signed and sealed

- (d) Bid qualification criteria for Fabrication, Painting, Supply, Erection & commissioning of SSLV Assembly Fixtures and all the supporting documents.
- (e) Write-up on the detailed procedure to be followed for fabrication at vendor place & erection at site.
- (f) Un-priced 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) Solvency certificate from a scheduled bank for a value not less than Rs.60 lakhs and not before 6 months from the date of tender closing.
- (h) Audited profit/loss statement, balance sheet and ITR documents for the last three financial years.
- (i) Description of the procedures adapted for material procurement, fabrication with deviations from technical specification and proposed design modifications.
- (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 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.

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 website <https://eprocure.isro.gov.in>. The cost of each item and other prices shall be filled in the respective forms available on-line in the e-portal. 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 subject to meeting the minimum evaluation criteria. 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.
- c) **Any bids/offers with price details in Techno-Commercial Offer (Part –I) shall be rejected.**

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: F3. Schedule of Bidders experience and details of present works being executed are to be filled as per Section: F5.

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 works 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 section F4. 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.

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.

6.7 Individual item wise lowest cost/bid will be considered for further evaluation.

SPEC NO.:
VALF/SSLV/2026-
01

VEHICLE ASSEMBLY AND LAUNCH FACILITIES
SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES

SECTION: B
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SECTION -B

GENERAL SPECIFICATION

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SPEC NO.: VALF/SSLV/2026-01	VEHICLE ASSEMBLY AND LAUNCH FACILITIES	SECTION: B
	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	SHEET 2 OF20

1. INTRODUCTION

“Fabrication, Painting, Supply, Erection & Commissioning of SSLV Assembly Fixtures” as per the specifications.

2. SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

The detailed scope of work and technical specifications is given in Sections D of specification document. Brief scope of work is given below. Contractors shall consider the detailed scope of work as given in Section: D.

- Understanding the drawings enclosed with the tender
- Fabrication and supply of SSLV assembly fixtures as per specifications to SDSC SHAR, Sriharikota.
- Erection and commissioning of SSLV assembly fixtures as per specifications at SDSC SHAR.
- Packing of all the items and storing at an identified location.
- Submission of all required documents as mentioned in Section: D

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, cleaning, erection & commissioning at Satish Dhawan Space Centre SHAR, Sriharikota, Tirupati District, Andhra Pradesh, India.
- 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.

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- 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

A. SPECIFICATIONS AND DRAWINGS

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

B. SUBMISSION OF TECHNICAL DOCUMENTS AFTER PO PLACEMENT

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

1. Technical literature & data sheets of materials to be used for the fabrication of the fixtures.
2. Detailed schedule for completing the fabrication works as per the schedule given
3. Detailed Quality Assurance Plan
4. No manufacturing or procurement shall be taken up unless SDSC SHAR's approval is obtained. The above documents shall be submitted in a format approved by SDSC SHAR.

C. FABRICATION & SUPPLY

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

D. ERECTION & COMMISSIONING for Nozzle assembly tower for Module-1 and 2

- Party shall assemble at site (SDSC-SHAR) and demonstrate the functional checks.
- Party has to arrange suitable spacers to level the base for ensuring proper functional checks
- Party has to align bottom structure to the tower as per the drawing.
- Suitable dummy weight will be provided by department to check the base structure functions

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SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES		SHEET 4 OF 20

E. DELIVERY AND STORAGE

1. 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 fit.
2. Delivery of the fabricated items as per specifications: FOR SDSC SHAR, Sriharikota.
3. The Supplier shall be responsible for transporting all the equipment to site, unloading and storage.
4. No equipment shall be delivered without obtaining dispatch clearance from SDSC SHAR.
5. All the equipment shall be properly packed to avoid any damage during transportation / handling / storage.
6. The equipment received at site shall be stored at a place assigned for this purpose.
7. Supplier shall take proper care while storing the equipment.
8. Supplier has to pack all the items properly in the identified place after demonstration and functional checks.
9. Supplier has to provide all the packaging items required to store the item in the identified place after demonstration.

4. PRE-DELIVERY INSPECTION

1. 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.
2. The fabricated item shall be inspected by the purchaser or his representative at the party's site before dispatch to site as per QAP.
3. The item shall be supplied to the purchaser site along with pre-delivery inspection report and dispatch clearance from department.

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5. DEMONSTRATION & TESTING

A. GENERAL

1. Supplier's staff shall include adequate number of competent engineers with proven experience on similar works to supervise the demonstration and testing works and sufficient skilled, unskilled and semiskilled labour to ensure completion of work in time.
2. Supplier's staff shall arrive at site on date agreed by SDSC SHAR. Prior to proceeding to work, however supplier shall first ensure that required/sufficient part of his supply has arrived at site.
3. 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.
4. Supplier shall carry out work in a true professional manner and strictly adhere to the approved drawings. Any damage caused by Supplier during commissioning and testing to new or existing building / environment shall be made good at no extra cost to Department.

B. RECORDS

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

Supplier shall offer the equipment for inspection to Department's engineer who along with Supplier's engineer will sign such records on acceptance.

C. SAFETY

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

D. MATERIAL HANDLING

Loading the fabricated items at contractor site, transporting the items to SDSC-SHAR is in the scope of contractor. However, available material handling equipment will be provided at SDSC-SHAR for un-loading the items and erection of the items at an identified location. However, if available handling systems are not sufficient/ suitable, it is in the responsibility of contractor to arrange the suitable handling equipment at contractors cost.

E. WORK RULES AT SDSC-SHAR

Unloading and functional checks of the items shall be carried out in SDSC-SHAR on working days only or permission to be obtained from the department for late hours / holidays.

6. ACCOMMODATION

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

7. MEDICAL FACILITIES

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

8. WORK PROGRAMME

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

9. SUB-CONTRACTS

- No work shall be sub-contracted without prior approval of SDSC SHAR.
- 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 SDSC SHAR the copies of all un-priced sub-orders showing promised delivery dates and places.

10. CHANGES AND MODIFICATION TO SPECIFICATIONS, DRAWINGS AND QUALITATIVE / QUANTITATIVE REQUIREMENTS

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

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11. RECORD OF DRAWINGS

- a) 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'.
- b) Submission of the modified drawings (if any) shall be a precondition for releasing of any final payment due to Supplier.

12. TAXES AND DUTIES

- a) The tendered items as per the above subjected tender comes under “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” having GST @ 5% (As per Dept of Revenue IGST Notification No. 25/2018 Integrated Tax (Rate) Schedule-I; Sl. No.243B dt: 31.12.2018 (Amendment to Notifications No. 7/2018-Integrated Tax (Rate) dt: 25.01.2018. Clause A (ix) about Schedule I 243A))

Kindly accept to offer the item with 5% GST against End User Certificate from our Competent Authority that the items belong to the above category

- b) 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.
- c) CGST/SGST/UTGST/IGST shall be paid at actuals against Tax Invoice but restricted to the amount and percentage in the contract.
- d) GST details of SDSC SHAR are given below:
 - Designation : Purchase and stores officer VALF
 - Contact no : 08623-226082
 - GSTIN : 37AAAGS1366J1Z1

13. 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.

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For downward revisions, the Department shall be given the benefit of reduction in CGST/SGST/UGST/IGST.

14. 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.

15. BANK GUARANTEE FOR SECURITY DEPOSIT, PERFORMANCE BANK GUARANTEE

A. Performance Bank Guarantee (PBG):

Contractor has to submit a BG/DD/FDR in lieu of PBG from a Nationalized / Scheduled Bank for 3% of the order value at the time of supply valid till the completion of warranty period plus 60 days towards claim period.

B. Security Deposit (SD)

3% value of the order shall be deposited with SDSC within 10 days from the date of the Purchase Order towards security deposit in the form of Bank Guarantee (BG)/ FDR/DD towards performance of the Contract valid till completion of the contract period plus sixty days towards claim period. (This will be returned by SDSC immediately on execution of the order satisfactorily as per order terms. If not, the amount will be forfeited). NOT REQUIRED FOR LANDED COST BELOW RS.5 LAKHS.

C. Combined BG for PBG cum SD

In case, if parties are unable to provide two separate BGs, i.e., one for SD & one for PBG, they can submit a combined BG for SD & PBG for 3% of the Order value valid till the completion of total contractual obligation (i.e., Supply & Erection period plus warranty period plus 60 days).

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

16. 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.

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- a) All packing and transport charges, transit handling costs, transit risk coverage 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.
- b) Supplier has to repack all the items after dimensional inspection of the fixtures and the packaging has to take care of the items for a minimum of two years. The material, manpower and tools required to pack all the items is under the scope of the supplier.

17. RISK COVERAGE

The Supplier shall arrange comprehensive risk coverage at his own cost covering the value of equipment including transportation to the site from manufacturer's works, storage at site till demonstration, testing at site. The period of such coverage shall be up to contractual completion period or any extension granted by Department thereof.

18. ARBITRATION

In the event of any question, dispute of difference arising under these conditions or any conditions contained in the Purchase Order or in connection with this contract, (except as to any matters the decision of which is specially provided for by these conditions) the same shall be referred to the sole arbitration of the head of the Purchase Office or some other person appointed by him, it will be no objection that the arbitrator is a Government Servant that he had to deal with matter to which the contract relates or that in the course of his duties as Government Servant he had expressed views on all or any of the matters in disputes or difference. The award of the arbitrator shall be final and binding on the parties of this contract.

It is Term of this contract:

- a. If the arbitrator be the head of the purchase office.
 - I. In the event of his being transferred or vacating his office by resignation or otherwise, it shall be lawful for his successor-in office either to proceed with the reference himself, or to appoint another person as arbitrator, or.
 - II. In the event of his being unwilling or unable to act for any reason, it shall be lawful for the Head of the Purchase Office to appoint another person as arbitrator:
- or
- b. If the arbitrator be a person appointed by the Head of the Purchase Office in the event of his dying, neglecting or refusing to act, or resigning or being unable to act, for any reason, it shall be lawful for the Head of the Purchase Office either to proceed with the reference himself or to appoint another person as arbitrator in place of the outgoing

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arbitrator. Subject as aforesaid, the Indian Arbitration and Conciliation Act, 1996 and the rules there under and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceedings under this Clause. The arbitrator shall have the power to the extent with the consent of the Purchaser and the Contractor the time making and publishing the award. The venue of arbitration shall be place as the purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during arbitration Proceedings.

- c. In case order is concluded on the public Sector Undertakings, the following Arbitration Clause will be applicable.

In the event of any dispute or differences relating to the interpretation and application of the provisions of contracts, such dispute or difference shall be referred by either party to the Arbitration of one of the Arbitrator in the Department of Public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Bureau of Public Enterprises. The Indian Arbitration and Conciliation Act, 1996 shall not be applicable to the Arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute provided, however, any party aggrieved by such award may make a further reference for setting aside or revision of the award to the Law Secretary, Department of Legal Affairs, Ministry of Law & Justice, Government of India. Upon such Additional Secretary when so authorised by the Law Secretary whose decision shall bind the parties finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator.

19. 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.

20. FORCE MAJEURE

Should a part or whole work covered under this purchase order be delayed due to reasons of Force Majeure which shall include legal lockouts, strikes, riots, civil commotion, fire accident, quarantines, epidemic, natural calamities and embargoes the completion period for work, equipment referred to in this agreement shall be extended by a period not in excess of the duration of such Force Majeure. The occurrence shall be notified within reasonable time.

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21. WARRANTY

The contractor shall provide **12 months** warranty for all the fixtures from the date of acceptance of the items at site. During this period, supplier has to provide and adhere to the following:

- a) He has to attend based on the preventive maintenance visits and breakdown maintenance calls. All the defective components have to be replaced or rectified on one-to-one basis.
- b) Break down maintenance should be responded within 48 Hours' time and shall be completed within 48 Hours after response.
- c) Department will not provide any transport/accommodation.
- d) In case vendor fails to attend and repair the system within 7 days from the date of reporting the problem, Department will reserve right to forfeiting the BG apart from withheld of any payment payable to the vendor.
- e) Where defects in items are remedied under warranty, the period for which the warranty operates shall be extended by such period, as the items were not available to SDSC SHAR. Where defect items are replaced by new ones, the full warranty period stipulated in the purchase order shall apply to such replacement items as from the date of their delivery.

22. SCHEDULE OF PRICE

- 21.1 CONTRACT price shall include all costs of "Fabrication, Painting, Supply, Erection and Commissioning of SSLV Assembly Fixtures", pre-delivery inspection, packing, forwarding, transport to site, unloading, storage, all risk coverage, testing & evaluation and repacking after test of fixtures including any other cost for proper and complete execution of the CONTRACT.
- 21.2 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.
- 21.3 Supplier shall quote the prices similar to price bid format enclosed as Section -F1 only in online.
- 21.4 The rate quoted shall be on FOR SRIHARIKOTA.

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23. TERMS OF PAYMENTS

Option-1:

- I. 20% of PO cost as Advance against submission of Advance Bank Guarantee (ABG) for an equal amount from a Nationalized /Scheduled bank and shall be valid till Contract completion period plus 06 months claim period.
- II. 70% of PO cost along with 100% GST against receipt of complete material at our site and clearance by CLIP.
- III. 10% of supply cost after successful assembly, demonstration, testing, repacking & 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

24. PENAL INTEREST CLAUSE

After release of advance payment, any delay attributable to the supplier in effecting the scope of PO after prescribed delivery period, interest will be levied beyond the specified delivery period on the amount of balance advance payments as per the Prime Lending Rate of RBI.

25. LANDING COST

In case of non-performance/poor performance, advance payment shall be recovered from supplier with interest as per the Prime Lending Rate of RBI along with 2% penal interest from the date of release of advance payment and the BG against advance payment shall be forfeited.

26. DELIVERY SCHEDULE

Delivery and commissioning of items within the schedule is very essential. Hence, contractors are requested to adhere to the completion time strictly.

S. No	Description	Schedule	Responsibility
For SS1 Nozzle Assembly Tower Module 1 & 2 and Roller stands			
1.	Release of PO	T0	Department
2.	Readiness of the items including pre-delivery	T1= T0 + 75 days	Vendor

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	Inspection at factory and dispatch clearance.		
3.	Supply of all the Items including transportation and receipt at SDSC SHAR	$T2=T1 + 10$ days	Vendor
4.	Department clearance for installation	T3	Department
5.	Installation & functional checks	$T4=T3 + 20$ days	Vendor
	Total delivery time	T0 + 105 days	Vendor
For all other items			
1.	Release of PO	T0	Department
6.	Readiness of the items including pre-delivery Inspection at factory and dispatch clearance.	$T1= T0 + 60$ days	Vendor
7.	Supply of all the Items including transportation and receipt at SDSC SHAR	$T2=T1 + 7$ days	Vendor
	Total delivery time	T0 + 67 days	Vendor

27. 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 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.

28. DISCLOSURE AND USE OF INFORMATION

- A. If the documents supplied by SDSC SHAR are marked "**Strictly Confidential**", supplier shall take all necessary steps to ensure the same.
- B. 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.
- C. No publicity of any kind whatsoever regarding this work shall be given without prior clearance from SDSC-SHAR.

29. 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

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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 findings.

On completion of tests, the members of the Inspection Organisation of the Department or Inspection agency appointed by Department shall prepare a report, which must be countersigned by the Supplier.

30. SUSPENSION

- A. 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.
- B. If Supplier's performance or his obligations remain suspended or the rate of progress is reduced, then, the time of completion will be suitably extended and all costs incurred by Supplier as a result of suspension or reduction in rate of progress will be paid to Supplier provided that the suspension or reduction in the rate of progress is not by reasons of Supplier's default or breach of Contract.

31. CANCELLATION

A. 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.

B. 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

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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.

C. 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.

- a) In the event of the Supplier's failure to meet
 - (i) The Technical requirements of the Supplier.
 - (ii) The Progress and/or delivery requirements.
- b) If the Supplier has not observed the provisions of the contract concerning the disclosure and use of information provided by the Department.
- c) If the Supplier fails to comply with the provisions of the contract concerning the equipment, supplies and technical documents made available by the Department.
- d) If the Supplier transfers his contract without the Department's authorization or concludes sub-contracts against the Department's explicit directives.
- e) 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

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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, a 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.

32. FRAUDULENT PRACTICES, BRIBERY AND CORRUPTION OF GOVERNMENT SERVANTS

The contractor 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 contractor) or the commissioning of any offence by contractor 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 Contractor and recover from the Contractor such amount or the monetary value thereof and the amount of any loss arising from such cancellation without any entitlement or compensation to the Contractor. The Department will also have the right to recover any such amount from any contracts concluded earlier between the contractor and the Government of India. The contractor will also be liable to be debarred from entering into any contract with the Government of India. A decision of the Department to the effect that a breach of the undertaking had been

33. RISK AND COST PURCHASE

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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.

34. LAND BORDER 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 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.

35. MAKE-IN-INDIA (MII) CLAUSE

Provisions contained in Public Procurement Policy (Preference to Make in India); Order 2017 issued by DPIIT vide OM No. P-45021/2/2017-PP(BE-II) dated 16.09.2020 & directives related including latest amendments (if any) is applicable for this tender. You are requested to provide Self Declaration Certificate that the offered Item meets Local Content Requirement of Class 1

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or Class 2 as per Make in India (MII) Policy, clearly indicating the Percentage of local content & the details of Location(s) at which value addition is made in the offered product. It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, and Training and after sales service support like AMC/CMC etc. Minimum 50% local content for Class-1 local supplier and minimum 20% local content for class 2 local suppliers.

Bidders shall submit self declaration indicating percentage of local content along with location of value addition in INDIA.

36. 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 MANUFACTURER OF THE OFFERED PRODUCT in case of bid for supply of goods. TRADERS ARE EXCLUDED from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence along with UDYAM REGISTRATION in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 plus 15% (Selected by Buyer) of margin of purchase preference/price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total QUANTITY.

PROJECT INFORMATION

- 1.0 Project Title : Fabrication, Painting, Supply, Erection & Commissioning of SSLV Assembly Fixtures
- 2.0 Location of Delivery Point : Sriharikota, Andhra Pradesh
- 3.0 Elevation : 4.2 m
- 4.0 Access to Site : Road
From North of Chennai is approx. 100 km.
From East of Sullurpeta in Tirupati dist. is approx. 28km.

Rail
Chennai – Vijayawada rail track line.
- 5.0 Terrain : Uneven with minor level variation
- 6.0 Climatic Conditions
- a) Temperature
- Mean of daily max : 42.2 °C
Mean of daily min. : 11.8 °C
Maximum Temperature : 44.6 °C
- i. Design ambient temperature for performance guarantee : 45.0 °C
- ii. For electrical system design: 50 °C
- b) Relative humidity
- i. Range : 15% to 100%
- ii. Design relative humidity for performance guarantee : 70%
- c) Rainfall
- i. Annual average maximum : 1331.3 mm

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- 7.0 Wind Load
Basic wind speed :65m/s
(Enhanced by a factor 1.3)

- 8.0 Seismic Data : As per IS: 1893 latest issue
Zone :Zone II

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TECHNICAL SPECIFICATIONS

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1.0 OVERALL, SCOPE OF WORKS

The scope of Fabrication, Painting, Supply, Erection and Commissioning of SSLV assembly fixtures shall include the following:

S.No	Description	Quantity
1.	Fabrication, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 1) along with pneumatic components*	01* set
2.	Fabrication, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 2) along with pneumatic components*	01* set
3.	Fabrication, Painting and Supply of SS2 & SS3 roller stands**	01** set
4.	Fabrication, Painting, Supply and Erection of SS2 motor tilting systems	01 set
5.	Fabrication, Painting and Supply of SS1 Nozzle Protection Structure	01 set

****Each Nozzle Assembly Tower (Item-1 & Item-2) shall be supplied with individual Pneumatic system as given in the drawing (NAT/PAC/01).***

*****For item -3, one set means supply of one no. of SS2 Roller stand and one no. of SS3 Roller stand.***

Note: Detailed specifications for the above items have been elaborated in subsequent pages.

PNEUMATIC CIRCUIT

- Flow control valves, Pressure gauges, Direction Control Valves, Filter-Regulator-Lubrication (FRL) units used in the circuit shall be of reputed makes like Parker/SMC/Festo/Wika/Equivalent suiting to the air motor requirements.
- The hoses used in the circuit shall be of Stainless Steel Corrugated Flexible Hoses of reputed makes like Polyhose/Equivalent.
- The pressure gauges shall be mounted close to the air motor inlets.
- End connections for all interfaces should be provided with suitable QC-DC fittings.
- Individual Pneumatic circuit as per the drawing (NAT/PAC/01) should be provided for each Nozzle Assembly Tower. (02 nos. of circuits are required)

2.0 DETAILED SCOPE OF WORK

- 2.1. Fabrication, Supply and erection of the items listed above.
- 2.2. Understanding the requirement of bought out items used in Nozzle Assembly Towers.
- 2.3. Submission of detailed schedule of activities to complete the works as per the schedule
- 2.4. Supply of all the equipment to SDSC SHAR, Sriharikota.

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- 2.5. Erection of the fixtures at various identified locations at site.
- 2.6. Submission of warrantee for efficient and specified performance of the total items. In case, any item is found to mal-operate or fails to provide specified performance during inspection/ testing at SDSC SHAR or during trial runs of the item or during warrantee period of one year after commissioning, the Supplier shall attend to the faulty/defective item within shortest possible time and make necessary repairs/ replacements to the satisfaction of the Department, without any commercial implication.

3.0 DOCUMENTS TO BE SUBMITTED

3.1 Prior to start of fabrication work

- a) Fabrication and machining procedure to be followed.

3.2 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.

3.3 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.

4.0 FABRICATION / WELDING AND MACHINING

4.1 GENERAL INSTRUCTIONS FOR FABRICATION/WELDING

The tenderer shall follow the guidelines given below for manufacturing of the above mentioned items. The fabrication of components shall conform to provisions of IS: 800-1984.

- a) The entire fabrication activity shall be performed in a planned/sequential manner to achieve desired dimensions/geometrical tolerance.
- b) The effective area of fillet welds shall be considered as the effective length times the effective throat thickness. The effective length of fillet welds except welds in holes and slots shall be the overall length of the full-size fillet.

- c) The effective throat thickness of a fillet weld shall be the shortest distance from the root to the face of the diagrammatic weld.
- d) All deviations, design changes as well as failures observed during manufacturing/ fabrication and assembly shall be logged in approved formats.
- e) Wherever welded attachment shall be used to facilitate fabrication/erection the same shall be removed carefully by cutting or chipping and the surface of material shall be finished smooth by grinding. As far as practicable, hammering shall be avoided.
- f) All plates of 20 mm thick and above shall be ultrasonically tested as per standards for lamination and other imperfections. The manufacturer, at source may carry out such ultrasonic tests before lifting the material.

4.2 WELDING INSPECTION

4.2.1 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.

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 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.

4.2.2 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.

4.2.3 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

4.3 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.
- 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.

5. 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.

5.1 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.

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

5.3 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. GENERAL INSTRUCTIONS FOR INSPECTION

6.1 INSPECTION REQUIREMENTS

Tenderer shall ensure that material and equipment are offered in the same priority of assembly as per agreed schedule.

Tenderer shall ensure that the material once rejected are not re-used and shall be promptly removed from shop and replaced with new material.

The fact that certain material has been accepted at the tenderer shop shall not invalidate final rejection at the purchaser site, if it fails to be in proper condition or has fabrication inaccuracies, which prevent proper assembly. Shop inspection by the purchaser or submission of test certificates and acceptance thereof to the purchaser shall not relieve the tenderer from the responsibility of furnishing material conforming to the requirements of these

specifications. The above shall also not invalidate any claim, which the purchaser may make because of defective or unsatisfactory material and/or workmanship.

Under the pre delivery inspection, the Purchaser will participate along with tenderer. If any item needs to be rectified, the tenderer shall inform the purchaser in writing and provide rectification procedure. After review and approval of rectification procedure by the purchaser, only then tenderer shall undertake rectification of said item. After rectification, the same shall be re-inspected by the purchaser and after approval the item may be used in the system. In case the said item fails during functional test or operation. The tenderer shall replace the item/requirement free of cost within the warranty period.

Tenderer shall maintain records of all inspection and testing, which shall be made available to the purchaser.

6.2 TEST CERTIFICATES AND DOCUMENTS

For such items being manufactured following test certificates and documents, as applicable for each of the equipment, in requisite copies including original shall be endorsed by the manufacturer with linkage to project, purchase order and acceptance criteria.

- a) Raw materials identification & physical and chemical test certificates for all materials used in manufacture of the equipment.
- b) Details of stage wise inspection and rectification records for fabricated items and machined articles.
- c) Manufacturer's material and performance/relevant test certificates for all bought-out items.
- d) Non-destructive test reports.
- e) Surface preparation and painting certificates.
- f) Certificates from competent authority for the items coming under statutory regulations, if any
- g) 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.

7. 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.

8. DELIVERY

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

**“Satish Dhawan Space Centre, Sriharikota, Tirupati District, Andhra Pradesh
– 524124”**

9. GENERAL INSTRUCTION TO THE CONTRACTOR

- a) The items covered in this specification shall confirm to technical specifications, latest revision of relevant standards and requirements in respect of accuracy, response time, performance, dimensions, materials of construction, manufacturing, safety, reliability & quality assurance, inspection and testing.
- b) All the equipment and accessories to be supplied under this package shall be new & from the latest product range of the supplier.
- c) The Supplier shall list out all the equipment along with their components/ parts, including make, type, model number and the other details for the approval of SDSC SHAR. Any deviation from it after approval shall be permitted.
- d) All correspondences /documents shall be in English language and the data / calibration details shall be submitted in Metric Units only.
- e) The supplier shall indicate any assumption made in respect of specification, data of any other details that have not been mentioned in

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this order but considered necessary for sizing & selection of equipment to meet the specified application requirements. All such assumptions will not be binding on ISRO unless expressly agreed upon. The supplier, under these conditions, shall supply equipment based on the data accepted to ISRO without any commercial implication.

- f) All necessary facilities including tools, tackles, testing equipment, instruments, accessories, manpower assistance etc. shall be provided by the supplier to enable inspection of equipment by ISRO during its manufacture/ fabrication/ assembly & inspection.
- g) The supplier shall be responsible for adherence to all the applicable rules, regulations & requirements of statutory bodies of the Andhra Pradesh State Government and Central Government of India, as required.

10. 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 applicable shall be fabricated as per the instructions and directions of the purchaser or its authorized nominee.

11. 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.

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LIST OF DRAWINGS

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LIST OF DRAWINGS

The bidders shall refer to the following tender drawings for quoting the price,

S. No	Description	Drawings	
1.	Fabrication, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 1)	10-MECH-12-7-16/R1/A1 SHEET 1 OF 1, 10-MECH-12-07-20/A1/R1 SHEET 1 OF 4 10-MECH-12-07-20/A1/R1 SHEET 2 OF 4 10-MECH-12-7-18/A1/R1 SHEET 1 OF 5 10-MECH-12-7-18/A1/R1 SHEET 2 OF 5 10-MECH-12-7-18/A1/R1 SHEET 3 OF 5 10-MECH-12-7-18/A1/R1 SHEET 4 OF 5 10-MECH-12-7-18/A1/R1 SHEET 5 OF 5 NAT/PAC/01 SHEET 1 OF 1	
2.	Fabrication, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 2)	10-MECH-12-7-17/A1 SHEET 1 OF 1 10-MECH-12-07-20/A1/R1 SHEET 1 OF 2 10-MECH-12-07-20/A1/R1 SHEET 2 OF 2 10-MECH-12-7-19/A1/R1 SHEET 1 OF 5 10-MECH-12-7-19/A1/R1 SHEET 2 OF 5 10-MECH-12-7-19/A1/R1 SHEET 3 OF 5 10-MECH-12-7-19/A1/R1 SHEET 4 OF 5 10-MECH-12-7-19/A1/R1 SHEET 5 OF 5 NAT/PAC/01 SHEET 1 OF 1	
3.	Fabrication, Painting and Supply of SS2 & SS3 roller stands	<u>SS2 Roller stand</u> 10-MECH-12-5-64/A1/R1 SHEET 1 OF 6 10-MECH-12-5-65/A1/R1 SHEET 2 OF 6 10-MECH-12-5-66/A1/R1 SHEET 3 OF 6 10-MECH-12-5-67/A1/R1 SHEET 4 OF 6	<u>SS3 Roller stand</u> 10-MECH-12-5-58/A1/R1 SHEET 1 OF 6 10-MECH-12-5-59/A1/R1 SHEET 2 OF 6 10-MECH-12-5-60/A1/R1 SHEET 3 OF 6 10-MECH-12-5-61/A1/R1 SHEET 4 OF 6

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		10-MECH-12-5-68/A1/R1 SHEET 5 OF 6 10-MECH-12-5-69/A1/R1 SHEET 6 OF 6	10-MECH-12-5-62/A1/R1 SHEET 5 OF 6 10-MECH-12-5-63/A1/R1 SHEET 6 OF 6
4.	Fabrication, Painting, Supply and Erection of SS2 motor tilting systems	10-MECH-12-2-11/R1 SHEET 1 OF 3 10-MECH-12-2-11/A1/R1 SHEET 2 OF 3 10-MECH-12-2-11/A1/R1 SHEET 3 OF 3 10-MECH-12-01-47/A1 SHEET 1 OF 4 10-MECH-12-01-47/A1 SHEET 2 OF 4 10-MECH-12-01-47/A2 SHEET 3 OF 4 10-MECH-12-01-47/A2 SHEET 4 OF 4 10-MECH-12-3-35 SHEET 1 OF 1	
5.	Fabrication, Painting and Supply of SS1 Nozzle Protection Structure	10-03-SSLV-07-024/A1/R1 SHEET 1 OF 1	

***Note : The above drawings are for tender purposes only. Final fabrication drawings will be handed over after the release of purchase order**

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, etc.	--	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	Pneumatic components and bought out items (Air motor, Gear box, Hoses, FRL, Valves, pressure gauges, etc)	Dimensional conformance	Measurements	Major	100%	As per Manufacturer's Specification	As per Manufacturer's Specification	IR	H	R	
		Pressure testing of individual components	Qualification	Critical	100% 1.1 x working pressure	ASME B31.3 & ASME B31.1	a. No leaks b. No failures	Component wise test report to be submitted	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											
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 :

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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	
6	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											
1	Machining	Overall dimensions	Measurement & visual	Major	100%	Drawing	Drawing	IR	H	R	

Legend :

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R – Review of records & results

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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	
F. CONTROL ASSEMBLY of Nozzle Assembly Tower and Nozzle Assembly structure (Both modules) at Shop floor											
1	Control assembly at works	a) Dimensions, Leveling, Alignment of SS1 Nozzle Assembly Tower and Nozzle Assembly Structure and all sub systems etc., Various clearances, surface finish etc as specified in drawings.	Visual & measurement	Critical	100%	Drawing	Drawings	IR	H	H	Before dismantling, reference line and match marking to be punched.
		b) Free rotational movement of bearings, motors, gear box, etc.	Visual & measurement	Critical	100%	Drawing	Drawings	IR	H	H	Before dismantling, reference line and match marking to be punched.
		c) Functional checks of Nozzle Assembly Structure and Pneumatic circuit. (The jack has to be operated in both ways using the pneumatic circuit)	Visual & Measurement	Critical	100%	Drawing	Drawings	IR	H	R	The functional checks of all the individual pneumatic components and the bought out items will be validated as a whole system

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	
G. ERECTION AT 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 fixtures.	Position, level, alignment and other dimensions.	Measurement & visual	Major	100%	Drawing	Drawing	IR	H	H	
4	Welding	Preheat / interpass / 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	Operation of Nozzle Assembly Structure for Module – 1 & Module – 2	Satisfactory working of all the pneumatic systems and bought out items	Visual & measurement, smooth movement without jerks throughout the range of travel.	Major	100%	TS & drawings	TS & drawings	IR	H	H	
8	Establishing the pneumatic lines and functional checks	Entire pneumatic lines and components will be pressure tested	Leak checks and smooth operation of pneumatic components	Critical	100%	ASME B31.3	ASME B31.3	IR	H	R	

Legend :

VR – Vendor

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Signature

Signature

Date :

For VENDOR

For ISRO

Place :

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 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, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 1) along with pneumatic components	01 set	
2.	Fabrication, Painting, Supply, Erection and Commissioning of SS1 Nozzle Assembly Tower (Module – 2) along with pneumatic components	01 set	
3.	Fabrication, Painting and Supply of SS2 & SS3 roller stands	01 set	
4.	Fabrication, Painting, Supply and Erection of SS2 motor tilting system	01 set	
5.	Fabrication, Painting and Supply of SS1 Nozzle Protection Structure	01 set	
6.	GST @ 5% for items 1 to 5		
	Total cost		

**Each Nozzle Assembly Tower (Item-1 & Item-2) shall be supplied with individual Pneumatic system as given in the drawing.*

***For item -3, one set means supply of one no. of SS2 Roller stand and one no. of SS3 Roller stand.*

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. **Individual item wise lowest cost/bid will be considered for further evaluation.**
4. **Interest on advance will be loaded in cost to arrive L1**

SIGNATURE: _____

NAME: _____

DESIGNATION: _____

DATE: _____

SEAL OF THE COMPANY

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	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	SHEET 1 OF 2

BID QUALIFICATION CRITERIA FOR FABRICATION, PAINTING, SUPPLY, ERECTION AND COMMISSIONING OF SSLV ASSEMBLY FIXTURES

Bidders who are qualifying / meeting following Technical and financial criteria are eligible to participate in the bid for supply of SSLV assembly fixtures. 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 31.12.2025 having executed contracts for fabrication and erection of structural items.
2. The firm shall have successfully completed Fabrication, Installation, Testing and Commissioning of at least 1 no heavy structural work of total 15t in single work order or at least 2 nos. heavy structural work of each 8t , during last 10 (ten) years ending with 31.12.2025. Bidders have to provide relevant certificates, PO copy, Completion certificates 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 6 m long and 3 m wide for fitment, alignment, welding etc

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

B. FINANCIAL QUALIFICATION REQUIREMENTS

1. The Bidder should have an average annual turnover of not less than a value of Rs. 100 Lakhs per year in last three financial years ending with 31.03.2025.
2. Firm should have successfully completed fabrication and erection of structural items for the given value of works in last 10 (ten) years
 - not less than Rs.50 lakh in a single order
 - OR
 - not less than Rs.30 lakh in two separate orders (each)

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Documentary proofs like LOI/PO are to be submitted

3. Bidder shall submit audited profit/loss & balance statement of financial status for last three years.
4. Bidder shall submit ITR documents for the last three financial years.

C. THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED ALONG WITH THE TECHNO COMMERCIAL BID

1. Firm establishment certificate and nature of work.
2. Details of work of similar type completed during the last ten years ending with 31.12.2025
3. Satisfactory work Completion certificates from the clients, with the work order copies.
4. Documentary evidence (Technical details & drawings) for fulfilling special technical conditions as per the RFP document
5. Solvency certificate from a scheduled bank for a value not less than Rs. 60 lakhs and not before 6 months from the date of tender closing.
6. Structure and Organization chart.
7. List of personnel with qualification & experience in the firm in the areas of design, production, quality, safety, administration etc.,
8. List of Machinery & Equipment to be used for the work.

D. BID SELECTION PROCEDURE AND PROCESS OF PRE-QUALIFICATION

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.

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 :

ISSUE
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 NO.: VALF/SSLV/2026-01	VEHICLE ASSEMBLY AND LAUNCH FACILITIES	SECTION: F5
	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	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:

SPEC NO.: VALF/SSLV/20 26-01	VEHICLE ASSEMBLY AND LAUNCH FACILITIES	SECTION: F6
	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	SHEET: 1 of 1

DATA TO BE FILLED ALONG WITH THE BID

S. No	DESCRIPTION	RESPONSE BY SUPPLIER
1.	Confirm that the items shall be fabricated 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 tolerance specified and fabrication shall be maintained as specified in relevant drawings approved by department.	Yes / No
4.	Manufacturing schedule & Erection/ testing schedule shall be submitted along with offer.	Yes / No
5.	Resources planning shall be submitted along with offer	Yes / No
6.	Man power planning for erection/ testing shall be submitted	Yes / No
7.	Confirm that QAP for fabricated items, machined items, Subassemblies shall be submitted for approval.	Yes / No

SIGNATURE :

NAME :

DESIGNATION :

COMPANY SEAL:

SPEC NO. : VALF/SSLV/20 26-01	VEHICLE ASSEMBLY AND LAUNCH FACILITIES	SECTION: F7
	SPECIFICATIONS FOR SSLV ASSEMBLY FIXTURES	SHEET: 1 of 1

CHECK LIST

S. No	Description	Response by supplier
1.	All documents related to Prequalification criteria mention in Section F2 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, D & E and commercial details as called for in schedule of prices 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 filled	Yes / No
7.	Delivery of the item shall be as per S. No 26 of Section B	Yes / No
8.	Delivery Schedule with milestones	Yes / No
9.	Accepted the Department Payment Terms as per S. No 23 of Section B	-
	Option-1 (With advance)	Yes / No
	Option-2 (without advance)	Yes / No
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 Section-B, 15-A	Yes / No
16	SD of 3% as per Section-B, 15-B	Yes / No
17	Combined BG for SD & PBG for 3% as per Section-B, 15-C	Yes / No
18	Liquidated Damages as specified in the specification document are acceptable	Yes / No
19	Registration certificate of the company is enclosed	Yes / No
20	All the forms in Section F1 to F7 are filled	Yes / No
21	Technical documents / drawings are attached along with technical bid	Yes / No
22	Solvency certificate from a scheduled bank for a value not less than Rs. 75 lakhs and not before 6 months from the date of tender closing.	Yes / No

SIGNATURE :

NAME :

DESIGNATION :

COMPANY SEAL: