



भारत सरकार/Government of India
अंतरिक्ष विभाग/Department of Space
द्रव नोदन प्रणाली केंद्र
LIQUID PROPULSION SYSTEMS CENTRE
एच ए एल II स्टेज, 80 फीट रोड
HAL II STAGE, 80 FEET ROAD,
बेंगलूर/BANGALORE-560 008.
फोन सं./Phone No.080 25037171
ई-मेल/Email: purchase@lpscb.gov.in



दिनांक/Date: 01.08.2025

अतिरिक्त कार्य क्षेत्र एवं निविदा के समय-सारणी में परिवर्तन के लिए लोक निविदा सं. एलबी202400032901 दिनांक 14.07.2025 हेतु शुद्धि-पत्र।

Corrigendum to Public Tender Notice No. LB202400032901 DATED 14.07.2025 for Additional Scope of Work and Change of Tender Schedule

निविदा की परिवर्तित समय-सारणी/TENDER CHANGED SCHEDULE

| | |
|---|--------------------|
| बोली-पूर्व बैठक की तिथि/Pre-bid Meeting Date | : 21.07.2025 11:00 |
| बोली प्रस्तुति की आरंभिक तिथि/Bid Submission Start Date | : 14.07.2025 17:00 |
| बोली स्पष्टीकरण की नियत तिथि/Bid Clarification Due Date | : 21.07.2025 11:00 |
| बोली प्रस्तुतीकरण की नियत तिथि/Bid Submission Due Date | : 21.08.2025 14:00 |
| बोली खुलने की तिथि/Bid Opening Date | : 21.08.2025 14:30 |
| मूल्य बोली खुलने की तिथि / Price Bid Opening Date | : 05.09.2025 14:00 |

मूल निविदा की अन्य सभी निबंधन एवं शर्तें अपरिवर्तित रहेंगी।

All other terms and conditions of the original tender notice shall remain unchanged.

निविदा दस्तावेज़ www.isro.gov.in/ या इसरो ई-प्रापण पोर्टल से डाउनलोड किए जा सकते हैं।

Tender documents can be downloaded from www.isro.gov.in/ or ISRO E-Procurement Portal.

हस्ताक्षरित/Signed
क्रय व भंडार अधिकारी/Purchase & Stores Officer

Tender No. LB202400032901

Compliance Matrix to be filled by Party

**Ref.: Tender for Procurement of Special purpose fixture (SPF)
and associated accessories**

| Sl. No. | Description | Compliance (Yes/No) | Remark |
|---|--|----------------------------|---------------|
| Compliance matrix for supply of Special Purpose Fixture (SPF) with s/c mounting adaptor 1200 and S/c mounting adaptor 1060 | | | |
| 1 | Specification and order quantity for Special Purpose Fixture (SPF) with s/c mounting adaptor 1200 and S/c mounting adaptor 1060 as per Annexure-1, Sub Annexure-i & Sub Annexure-iii. Any deviation/change in compliance to be brought out in remarks. | | |
| 2 | Supply of Special purpose fixture (SPF) meeting all requirements mentioned in section-2 of specification document (Description of the Special Purpose Fixture). Any deviation/change in compliance to be brought out in remarks. (refer page 3 to 4 of doc. 'Fabrication annexure for special purpose fixture' , section-2) | | |
| 3 | Party shall carry out supply of SPF as per Scope of Work mentioned in the specification document. Any deviation/change in compliance to be brought out in remarks. (refer page 5 of doc. 'Fabrication annexure for special purpose fixture', section 3.1, 3.2 and 3.4) | | |
| 4 | The party shall submit process planning for the major activities, such as structural fabrications, large machining, integration of sub assemblies, testing etc. The planning description shall include, type of tooling proposed such as fixtures, machine tool etc. (please specify in case of subcontracting for any such facilities). Time schedule for all such major activities along with mile | | |

| | | | |
|---|--|--|--|
| | <p>stone dates of completion of such activities from the date of receipt of our purchase order should be given. Any deviation/change in compliance to be brought out in remarks.</p> <p>(refer page 5 of doc. 'Fabrication annexure for special purpose fixture', section-4)</p> | | |
| 5 | <p>Inspection of raw material by NDT methods/certificate of conformance by the party is required prior to fabrication process. Any deviation/change in compliance to be brought out in remarks.</p> | | |
| 6 | <p>Necessary welding fixture and standard fabrication techniques are to be adopted with suitable machining allowance to meet the final size (after machining) as per the drawings. Any deviation/change in compliance to be brought out in remarks.</p> | | |
| 7 | <p>All the welded joints are to be free from defects such as cracks, discontinuity, porosity etc., Adopt established standards to ensure proper welding by taking necessary precautions. Adopt necessary NDT at all levels of fabrication. Dye Penetrant Test (DPT)</p> <p>to be done to inspect the weld quality by the party before proceeding to further operations and X-ray/ultrasonic weld inspection whenever suspected for weld cracks, flaw of any kind during inspection and testing. Any deviation/change in compliance to be brought out in remarks.</p> | | |
| 8 | <p>All welded structures are to be stress relieved before machining using non-heating process such as resonate frequency method, shot peening method etc. Any deviation/change in compliance to be brought out in remarks.</p> | | |
| 9 | <p>Location tolerances and surface finish to be maintained as per design drawings. Dimensional tolerance to be controlled during machining based on electroplating</p> | | |

| | | | |
|-----------|---|--|--|
| | thickness to get the exact sizes specified in the drawing after machining and electroplating. Any deviation/change in compliance to be brought out in remarks. | | |
| 10 | <p>Party should carry out Heat treatment & electro plating, Metal coat painting as per the requirement meeting all specification. Any deviation/change in compliance to be brought out in remarks.</p> <p>(refer page 6 to 7 of doc. 'Fabrication annexure for special purpose fixture', section 6)</p> | | |
| 11 | <p>Party should carry out Raw Material Inspection, Inspection before Welding, Inspection in tag welded condition, Inspection after Welding, Fabricated Part inspection and Standard Parts inspection meeting all requirements as per specifications. Any deviation/change in compliance to be brought out in remarks.</p> <p>(refer page 7 to 9 of doc. 'Fabrication annexure for special purpose fixture', section 7.1)</p> | | |
| 12 | <p>Party should carry out Linear Motion Bearing Assembly & Alignment , Ball Screw Assembly & Alignment , Spin Axis Drive Assembly , IMO Bearing Assembly , Mounting of Screw-jack , Bolt fastening , and Stowed Assembly of the fixture meeting all requirements as per specifications. Any deviation/change in compliance to be brought out in remarks.</p> <p>(refer page 9 to 11 of doc. 'Fabrication annexure for special purpose fixture', section 7.2)</p> | | |
| 13 | <p>Party should carry out Static Load Test, Operation/Performance Tests, Test of Spin axis drive assembly and Handling and Mobility tests meeting all requirements as per specifications. Any deviation/change in compliance to be brought out in remarks.</p> | | |

| | | | |
|-----------|--|--|--|
| | (refer page 11 to 17 of doc. 'Fabrication annexure for special purpose fixture', section 7.3) | | |
| 14 | The finished fixture has to be neatly covered and delivered to our stores safely. Care should be taken during transportation to avoid damages (such as scratches) on the painted parts and failure of parts. | | |
| 15 | Party is required to provide table of details of the make of each standard bought out items for SPF (Table-1). Attach separate sheet. | | |
| 16 | The Party shall be responsible for supply, integration & testing of Control Panel (Flameproof type) for SPF meeting all requirements as per specifications. Any deviation/change in compliance to be brought out in remarks. (refer page 43 to 48 of doc. 'Fabrication annexure for special purpose fixture', Annexure-12) | | |
| 17 | The party has to submit a circuit/layout diagram for the proposed PLC logics, scheme and Power circuit highlighting all safety and protection system. The components are to be sourced from reputed make as indicated in Annexure '12C'. Any change in make due to non-availability/ any reasons the same may be indicated while quoting. An alternate superior or equivalent quality may be proposed and the same may be implemented after obtaining approval from the department. Any deviation/change in compliance to be brought out in remarks. | | |
| 18 | The party will make necessary mounting provisions on SPF to mount the control panel, junction box, limit switches, lamp, hooter etc and also wire routing between control panel, limit switches, junction box, drive elements etc. Any deviation/change in compliance to be brought out in remarks. | | |

| | | | |
|-----------|---|--|--|
| 19 | Supply of SPF confirming to enclosed drawings. Any deviation/change in compliance to be brought out in remarks. (refer page 88 to 155 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 20 | The party shall provide raw material composition certificates before starting the fabrication process. | | |
| 21 | For raw material, fabrication, welding, inspection assembly and testing party shall comply with the standards mentioned in the specification document 'Fabrication annexure for special purpose fixture'. | | |
| 22 | Testing of SPF, s/c mounting adaptor 1200 and S/c mounting adaptor 1060 as mentioned in the specification document 'Fabrication annexure for special purpose fixture'. Any deviation/change in compliance to be brought out in remarks. | | |
| 23 | The party shall provide Certificates and documents as mentioned in the specification document 'Fabrication annexure for special purpose fixture'. Any deviation/change in compliance to be brought out in remarks. | | |
| 24 | Party shall comply General terms & conditions mentioned in the specification. Any deviation/change in compliance to be brought out in remarks. (refer the doc with title 'General Terms and Conditions') | | |
| 25 | The party shall attach PO copy of similar item supplied for spacecraft/ spacecraft related parts handling application. | | |
| 26 | Party shall provide all inspection reports as per document 'fabrication annexure for special fixture'. | | |
| 27 | The supply shall be completed within 15 months from the date of receipt of purchase. | | |
| 28 | PROCESS PLANNING-SPF: While quoting, the party shall submit process planning for the major activities | | |

| | | | |
|---|--|--|--|
| | (Mandatory Inspection Points (MIP)) and compliance to the time schedules as given in Table – A (separate sheet attached). | | |
| Compliance matrix for supply of Standard accessories, tools and spares for SPF | | | |
| 29 | Specification and order quantity for Standard accessories, tools and spares for SPF as per Annexure-1 and Sub Annexure-ii | | |
| 30 | Specification and order quantity for Aero-castor load module system and accessories as per Annexure SA-1. Any deviation/change in compliance to be brought out in remarks. (refer page 157 to 159 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 31 | Specification and order quantity for wireless telemetry load cell as per Annexure SA-2. Any deviation/change in compliance to be brought out in remarks. (refer page 160 to 161 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 32 | Specification and order quantity for Special Purpose fixture handling device as per Annexure SA-3. Any deviation/change in compliance to be brought out in remarks. (refer page 162 to 165 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 33 | Specification and order quantity for Spare supply of shaft adaptor as per Annexure SA-5. Any deviation/change in compliance to be brought out in remarks. (refer page 167 to 168 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 34 | Specification and order quantity for tools and accessories as per Annexure SA-7. Any deviation/change in compliance to be brought out in remarks. | | |

| | | | |
|---|--|--|--|
| | (refer page 171 to 174 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 35 | Party is required to provide table of details of the make of each Standard accessories, tools and spares for SPF. Attach separate sheet. | | |
| 36 | Party shall provide all inspection reports wherever applicable as per the requirement meeting all specifications. (refer page 156 to 174 of doc. 'Fabrication annexure for special purpose fixture', Annexure SA-1, Annexure SA-2, Annexure SA-3, Annexure SA-5, Annexure SA-7) | | |
| 37 | The party shall provide load test certificate, calibration certificate, product catalogue and other documents as mentioned in the specification document 'Fabrication annexure for special purpose fixture'. Any deviation/change in compliance to be brought out in remarks. (refer page 156 to 174 of doc. 'Fabrication annexure for special purpose fixture', Annexure SA-1, Annexure SA-2, Annexure SA-3, Annexure SA-5, Annexure SA-7) | | |
| 38 | The party shall provide raw material composition certificates before starting the fabrication process. Any deviation/change in compliance to be brought out in remarks. | | |
| 39 | The supply shall be completed within 15 months from the date of receipt of purchase | | |
| 40 | Whether party is supplying all standard accessories, tools and spares for SPF meeting all the specifications as mentioned in sub annexure-ii and Annexure SA-1, Annexure SA-2, Annexure SA-3, Annexure SA-5, Annexure SA-7. If any of the item is not supplied by the party it has be mentioned in the remarks. | | |
| Compliance matrix for supply of Test Mass 8000 | | | |

| | | | |
|----|--|--|--|
| 41 | Specification and order quantity for Test Mass 8000 as per Annexure-1 and Sub Annexure-ii | | |
| 42 | Fabrication and supply of test mass 8000 as per the drawing no.-ISACDTDF-IGEN-12-08012/003 and Annexure SA-9. Any deviation/change in compliance to be brought out in remarks. (refer page 177 to 178 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 43 | Party Shall carry out metal coat painting of test mass meeting all requirements as per specifications. Any deviation/change in compliance to be brought out in remarks. (refer page 177 to 178 of doc. 'Fabrication annexure for special purpose fixture') | | |
| 44 | The party has to provide a name plate on aluminum anodized sheet with identification no., C.G. locations details, mass etc. shall be riveted on test mass and details will be given at the time of finishing. | | |
| 45 | The party shall provide raw material composition certificates before starting the fabrication process. | | |
| 46 | Party shall provide all inspection reports as per document 'fabrication annexure for special fixture' (refer page 177 to 178 of doc. 'Fabrication annexure for special purpose fixture', Annexure SA-9) | | |
| 47 | The supply shall be completed within 15 months from the date of receipt of purchase | | |

Note:

- Party shall provide compliance/non- compliance details for each point in the above table.
- If required, Provide Documentary Proof as Supporting documents, topics where ever it is deemed necessary separate sheets can be attached.

Table – A

| MIPs | Activity | Time Schedule | Total days (including holidays) from PO acceptance |
|-------------|--|----------------------|---|
| 1 | Receiving & Acceptance of Purchase Order (T0) | T1 | 0 |
| 2 | Presentation of Process & execution plan | T2=T1 + 10 days | 10 |
| 3 | Raw material Procurement and certification | T3=T2 + 30 days | 40 |
| 4 | Order placement of Long lead Standard items | T4=T2 + 10 days | 50 |
| 5 | Raw material planning & cutting | T5=T3 + 50 days | 90 |
| 6 | Structural Tag Weld condition | T6=T5 + 100 days | 190 |
| 7 | Structural Full weld condition | T7=T6 + 25 days | 215 |
| 8 | Machining, drilling, tapping & grinding etc., as per the drawings. | T8=T7 + 100 days | 315 |
| 9 | Trial Assembly | T9=T8 + 25 days | 340 |
| 10 | Final Assembly & Load Test | T10=T9 + 60 days | 400 |
| 11 | Painting & Finishing operations | T11=T10 + 20 days | 420 |
| 12 | Pre-dispatch Inspection & clearance | T12=T11 + 15 days | 435 |
| 13 | Delivery | T13=T12 + 15 days | 450 |

Important Note:

1. Vendor should comply to the above MIPs and schedule. Non-compliance to any of the above MIPs with respect to Time schedule & Quality will strictly Result in Cancellation of Order at that stage with a buffer period of 10 days for the corresponding activity (Maximum allowable = 3 activities amounting to 30 days only i.e., The total delivery period should not exceed 456 days (i.e., 15 months) from the date of PO acceptance).