

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
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निविदा सूचना सं. TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/RO-LSSF/30/2026-2027

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 /LSSF PURCHASE /LSSF/2026000626 [Public Tender – Two Part]	Fabrication Work Contract for LSSF Facilities	26 Line Items

निविदा दस्तावेजों को डाउनलोड करने की अंतिम तिथि Last Date for downloading of tender documents : 22.05.2026 at 14:00 hrs.
ऑनलाइन निविदा जमा करने की अंतिम तिथि Due Date for submission of bids online : 22.05.2026 at 14:00 hrs.
निविदाएं खोलने की नियत तिथि Due Date for opening of tenders : 22.05.2026 at 14:05 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.isro.gov.in से ई-निविदा डाउनलोड और अपनी निविदा ई-खरीद पोर्टल पर ऑनलाइन जमा कर सकते हैं। डाक / वाहक / स्वयं द्वारा प्राप्त निविदाओं पर विचार नहीं किया जाएगा। / Interested tenderers can download the e-tender from ISRO e-procurement website www.eproc.isro.gov.in and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.
- निविदा दस्तावेज इसरो की वेबसाइट www.isro.gov.in इसरो न्यू ई-प्रोकुरमेंट वेबसाइट www.eproc.isro.gov.in तथा सतीश धवन अंतरिक्ष केंद्र शार की वेबसाइट www.shar.gov.in पर भी उपलब्ध हैं। इन्हें केवल ई-खरीद पोर्टल से डाउनलोड और निविदा ऑनलाइन जमा कर सकते हैं। / Tender documents are also available on ISRO website www.isro.gov.in, ISRO New e-procurement website www.eproc.isro.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.
- 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 GARPTS Report ID: GEM/GARPTS/24042026/RTU0JM04WNEN

दिनांक DT: 29.04.2026



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

भारतीय अंतरिक्ष अनुसंधान संगठन



Indian Space Research Organisation

**Indent Specification & General Conditions for fabrication, erection & testing of
SS Pipelines at SDSC SHAR, Sriharikota**

1.0 Introduction:

- 1.1 Work contract is meant for fabrication of Stainless Steel piping circuits & associated structural works, which is to be carried out at LSSF facilities i.e. at First Launch Pad (FLP), Second Launch Pad (SLP) & Bulk Storage Facility (BSF).
- 1.2 These works are required to be carried out at SDSC SHAR, Sriharikota which is about 100 Km from Chennai and 20 km from Sullurepeta.
- 1.3 This fabrication contract is mainly meant for following:
 - a) Fabrication, erection, testing & commissioning of fluid circuits of Mobile Launch Pedestal (MLP-2) at SLP, towards replacement of old circuits.
 - b) Fabrication, erection, testing & commissioning of fluid circuits of New LVM3 Mobile Launch Pedestal at SLP, towards realization of new fluid circuits.
 - c) Fabrication, erection, testing & commissioning of UH25 (Rocket Fuel) yard piping circuits at FLP, towards realization of new fluid circuits.
 - d) General fabrication activities of SS pipelines & associated structural works at LSSF facilities.
- 1.4 **Contract period:** The validity of the contract shall be for a period of 2 years from the date of release of Purchase Order.

2.0 Scope of the contractor:

- 2.1 Preparation of Isometric drawings of the fluid circuits for the specified fabrication works.
- 2.2 Fabrication of SS pipe lines of sizes varying from 15 NB to 150 NB of different schedule from Sch10 to Sch 160.
- 2.3 Bending of SS pipes size up to 1".
- 2.4 All the required machinery, tools & welding consumables
- 2.5 Radiography testing, erection, hydrostatic testing and associated works.
- 2.6 Fabrication of MS structural material for pipe lines supports, platforms, etc.,
- 2.7 Commissioning of the systems includes: assembly of flow components, tubing for EP valves/solenoids/cubical, testing and painting (includes, numbering).
- 2.8 General terms and condition of the contract.

3.0 Scope of the Department: The following items will be supplied by Department **at free of cost:**

- 3.1 The materials required for execution of work such as pipes, tubes & tube fittings, pipe fittings like tees, elbows, flanges, studs, gaskets, paints, thinner, machined fittings like Nipples, Unions and flow components, U-clamps & shim plates.

- 3.2 Mobilization of required materials from stores/stock yard to nearest place of fabrication
- 3.3 Radiography source pit and dark room for development of films.
- 3.4 Pickling & passivation of SS pipelines, including pickling & passivation chemicals.
- 3.5 Paints & Thinner for SS pipelines & MS structurals.
- 3.6 Pneumatic supply for purging and testing activities.
- 3.7 Pressure gauges, gaskets & studs for testing of pipelines.
- 3.8 Electricity, DM water & Compressed Air/Nitrogen gas will be supplied by Department at specified tapping points.

4.0 Details of SS & MS fabrication works and erection of SS pipe lines

Sequence of fabrication works to be executed by the contractor:

- 4.1 Mobilization of manpower, machinery and materials
- 4.2 Submission of all welding consumables MTC's
- 4.3 Qualification of TIG (6G) welders at SDSC SHAR
- 4.4 Preparation & submission of Isometric/fabrication drawing, weld joint history, other records (if any), etc.,
- 4.5 Mobilization of required materials from the stores (Max: 2 to 4km)
- 4.6 TIG welding and Laying of pipe lines as per the isometric drawings.
- 4.7 Trial suit check shall be carried out at site before final weld, in case of prefabrication of spool pieces.
- 4.8 All weld joints shall be DP tested (root & final) and all the butt joints shall be 100% radiography tested.
- 4.9 Erection of pipe supports and fixing of pipe clamps for all the pipe lines.
- 4.10 Hydro test, pickling & passivation, painting, alignment, assembly of flow components, pneumatic leak checks, final inspection and tag numbering.
- 4.11 **TIG Welding:** Stainless Steel pipe (SS 304/304L/316/316L) of schedule (from 10s to 160 s) and sizes varying from 15NB to 150NB are planned to be welded. Piping work includes marking, cutting, profiling, aligning, fit up, Tack welding, cleaning, chipping etc. Root and final TIG welding by GTAW process. (*GTAW welding shall be with 99.99% purity argon gas shielding & purging*). Filler wire to be used for GTAW welding shall be ER 308L/ER 316L for the respective materials.
- 4.12 Only 6G qualified welders as per ASME Sec. IX with proven track record shall be employed to carryout welding. Qualification of welder need to be carried out in the presence of Department quality engineer suiting to the pipe size/schedule requirements. *Contract Supervisors, Fitters & Grinders should be well experienced.*
- 4.13 All pipe welding joints shall be tested with dye-penetrant test after root and final pass for butt welding and for final pass after fillet/socket welding as per ASME Sec.V, and **100% butt weld joint to be radiographed.**

- 4.14 **Pipe Bending:** Cold bending of pipes shall be made to a required angle by using heavy duty bending equipment meant specifically for Stainless Steel pipes sizes of ½” to 1” pipe lines for gas service. Bend radius of minimum 3D to 4D shall be maintained to avoid unwanted thinning of pipe wall thickness. Wrinkles and scratches are not permitted on the bends.
- 4.15 Fabrication of MS structural works shall be carried out by means of SMAW welding with arc electrodes of AWS E 7018. Anchoring of pipe supports works are to be carried out wherever required, anchoring fasteners are in the scope of contractor.
- 4.16 Drilling shall be preferred for making holes in the structural materials and avoid gas cutting.
- 4.17 The following Manpower to be engaged for the fabrication work (TIG):
- 4.17.1 Contractor has to deploy the one experienced supervisors with minimum of 3 years of experience in the auto cad drawing and piping fabrication.
- 4.17.2 6G qualified TIG welders for SS pipe welding and Structural welder for MS fabrication, qualified skilled fitters and grinders shall be deployed.
- 4.17.3 Each SS TIG Welding fabrication team shall consist of minimum of one welder, one fitter, one grinder and one helper. Contractor should be capable of deploying **minimum TWO teams simultaneously and Based on the Department need, contractor should be able to deploy additional TWO teams**, along with required machinery, equipment and material.
- 4.17.4 Site engineer / supervisor shall be deployed at site and shall be responsible for:
- a) Supervision of fabrication activities and Safety of contractor’s personnel
 - b) Preparation of fabrication drawings, plan of activity, bill of material, drawing of material from department stores/facility, weld joints history, records of flow components, fabrication history sheets and other documentation, if any.
 - c) Obtaining necessary clearances from Department for fabrication works.
 - d) Co-ordination with radiography team & Department representative.
 - e) Maintaining the safe custody of all Department free issue material, radiography films, etc.
- 4.18 **Machinery:** Required machinery like TIG welding machine, arc welding machine, portable auto TIG welding machine, grinding machine, gas cutting sets and bench / hand drilling machines and concrete drillers, bending machine, pipe cutting machine, hydro test pumps etc. shall be mobilized by the contractor.
- 4.19 **Welding Consumables:** The consumables such as SS Filler wires (ER SS 308 L / 316 L), CS filler material (F-6), electrodes (E 7018 / E 6013), Grinding Wheels, cutting wheel, Industrial Gases (Oxygen / Acetylene), Gas cutting set, Argon gas, Dye-Penetrant Test Kit, Argon regulator, Flow Meters, Face shields, Gloves, SS Wire Brush, SS alignment shim plates of various sizes, Emery cloth, etc. shall be mobilized to the site by the contractor. All the welding consumables are in contractor scope &

shall be in good condition and the same will be verified by the department representative before usage in fabrication works.

- 4.20 **Transportation of contractor's team & Material:** Transport vehicles required for movement of contract personnel from/to work site and Gate-1/Sullurepeta, including internal movement within site are in the scope of contractor.
- 4.21 **SS Wires:** Size 1.6 mm / 2.0 mm / 2.5 mm, Make (Philips / ESAB / Advani). Manufacturers material test certificates shall be submitted for review & records.
- 4.22 **Electrodes for MS Structural:** Size 2.5 mm / 3.15 mm, Make (Philips / ESAB / Advani). Manufacturers material test certificates shall be submitted for review and record.
- 4.23 **Argon Gas cylinder & Oxygen / Acetylene cylinders:** Grade Commercial, Purity 99.99%, Cylinder Capacity 50 Ltrs, Make (Praxair / Bhoruka / Inox / BOC). Purity certificate to be provided prior to usage.
- 4.24 **Dye-Penetrant Test Kit** Containing cleaner / Penetrant / Developer, Make (Magnaflux / Check Mate)
- 4.25 **Note:** Bidder has to provide all the welding consumables materials TC's for department engineer review and the material shall be used after getting the Department clearance only.
- 4.26 **Electrical:** Contractor shall ensure Safe distribution of electrical power from single point source identified by Department to various contractor's utility points/equipment.
- 4.27 **Evaluation of Machinery, Manpower and Consumables:**
- a) Machinery and manpower shall be subjected to technical evaluation by the Department Engineer to ascertain their complete suitability / performance for the jobs described above before commencement of the work at site.
 - b) Only qualified welders to a level of 6G as per ASME Sec. IX with proven track record will be permitted to carry out the welding works. However, qualification of welder needs to be carried out at site in the presence of Department engineer suiting to the pipe size / schedule requirements. Based on this evaluation, clearance shall be given for taking up the actual job. Fitters / Fabricators / Grinders should be well experienced.
 - c) If any welder is producing repair joints beyond an acceptable number, the same welder shall be replaced with another welder after due qualification.

5.0 Details of Radiography testing (RT), hydrostatic testing and painting works:

5.1 Radiography testing (RT):

- 5.1.1 All butt-welds shall be subjected to **100% Radiographic Examinations by X-ray /Gamma-Ray for SS piping** as per ASME sec. V for a sensitivity of 2-2T.
- 5.1.2 The penetrometer used shall confirm to ASTM E 1025/ASTM E747 (or) relevant DIN standards.

- 5.1.3 Radiography shall be carried out by qualified technicians (i.e.) minimum Level-I of ISNT/ ASNT and *qualification certificates shall be produced with latest renewal to the Department before proceeding with the work.*
- 5.1.4 Exclusive radiography machine / gamma ray source has to be arranged by the contractor when sufficient numbers of joints (min 30 Nos) are available for examination.
- 5.1.5 Radiography film shall be evaluated, and report shall be submitted by Level II ISNT/ ASNT (or) equivalent qualified person. However, department inspector will carry out the final evaluation. Department NDT Level-II trained inspector decision is final for retake (or) repair. No extra cost will be paid for re-take due to rejection of radiograph owing to bad image quality or repair joints.
- 5.1.6 Radiography shall be carried out during night time only.

5.2 Hydro test of fabricated & RT qualified pipe spools (or) loops:

- 5.2.1 Hydrostatic testing shall be carried for RT qualified pipe lengths / spool pieces.
- 5.2.2 Readiness for the hydrostatic testing like assembly flow components/ pipe spools with gaskets and studs.
- 5.2.3 Hydrostatic / Pneumatic testing on the piping segments shall be carried out at department specified pressures only. Hydrostatic test shall be carried out with DM water (water will be free issue by Department).
- 5.2.4 The items required for hydro test like hydro test pump, calibrated pressure gauges, blinds, etc., are in the scope of contractor.
- 5.2.5 **Sequence of Testing for SS Pipelines:**
- a) Flushing of piping segments with DM water.
 - b) Hydrostatic test as per department specified pressures.
 - c) Flushing of all circuits with DM water.
 - d) Replacement of test gaskets with actual gaskets (free issue by dept).
 - e) Purging of all circuits with dry / N₂/ gas with requisite dew point.
 - f) Cleanliness checks of fluid circuits.
 - g) Integrated pneumatic leak testing of the total system.
 - h) During all the above activities of testing, department personnel will be available and department clearance is mandatory for declaring the completion of each activity.

5.3 Erection of Piping loops (or) spools:

- 5.3.1 Erection includes alignment of pipes, maintenance of required slopes, proper fixing of flow components, instruments and fixing of SS shim plates & U clamps.
- 5.3.2 Laying of fabricated pipe lines over structural supports and assembly of U-Clamps.
- 5.3.3 Erection of piping includes doubling of pipes, positioning of completed pipeline segments at required locations as per the piping layouts. Assembly of pipe spools with SS studs & gaskets (studs & gaskets will be provided at free of cost)

5.3.4 MS supports fixing and drilling of holes in MS supports, fixing of clamps shall be carried out for every 2.5 to 3.0 Meters of pipe length.

5.4 Painting works

5.4.1 Contractor shall carryout painting of SS pipe lines, structural items, tag numbering of flow components, pipe line numbers, etc.

5.4.2 The paints are of special type (epoxy paints) i.e. two component-based paints. Both the components (3:1 ratio) are to be mixed and applied immediately on mixing. All the surfaces shall be applied with one coat of primer & one coat of finish coat.

5.4.3 The metal surface shall be cleaned thoroughly for surface preparation with Stainless Steel brushes, before applying paints.

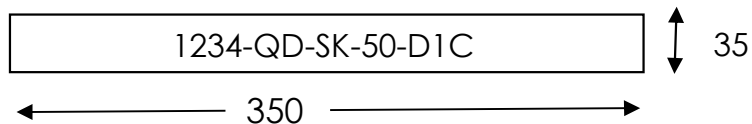
5.4.4 A high build epoxy primer suitable for Stainless Steel surface of 120 +/- 10 micron Dry Film Thickness (DFT) followed by a finish coat of aliphatic / acrylic, polyurethane finish paint of 40 microns DFT shall be applied so that the total DFT achieved will be 150 +/- 10 microns. The tag numbering of pipelines and flow components shall be written at appropriate places as per P & I diagram.

5.4.5 **Painting of Structural Materials:** Painting of MS Structural and cable tray work includes surface preparation, mixing of paint and application of paints.

5.4.6 Primer & Final coat as per required thickness. Painting Scheme shall be: Epoxy mastic coating: 120-130 microns, Aliphatic Polyurethane: 30-40 microns and Total Dry film thickness: 150 +/- 10 microns

5.4.7 **Colour scheme:** The colour code scheme for pipe lines will be provided by purchaser at the time of painting works and in general as per relevant Indian standards and which will be applicable for final coat.

5.4.8 **Tag numbering / Pipe line numbering:** Numbers are to be painted on the pipelines using white synthetic enamel paint on a black back ground painted surface as follows:



5.4.9 Height, width & thickness of letters/numbers are 25, 50 & 5 mm respectively. One set consists of numbering with white enamel on a black background. Black background is to be painted prior to numbering with stencils.

5.4.10 Painting (two coats) shall be carried out for all the pipe lines, tubes, cable trays, tube trays, structural members by experienced painters.

5.4.11 While painting uniform DFT shall be maintained.

5.4.12 **Paints & thinner will be supplied by the Department and the painting consumables like brushes, emery papers, blades, waste/cotton cloths, etc., are in the scope of contractor.**

5.4.13 Details of tag numbers / pipe line numbers will be provided at the time of painting.

6.0 Execution of fabrication works at site:

6.1 The validity of the contract shall be for a period of 2 years from the date of release of Purchase Order. The scope of work is meant for carrying out the fabrication of critical systems (time slot will be limited) and general maintenance activities. The fabrication of critical systems towards replacement of fluid circuits (or) realization of new fluid

circuits need to be completed within the shortest possible time frame after release of PO & Clearance from the department. The fabrication works mentioned in clause No: 1.3 (a), (b) & (c) are treated as critical systems.

- 6.2 As the above said critical fabrication, erection, testing and commissioning of fluid circuits need to be carried out based on the time slot available in between launches, the clearance will be provided by the purchaser for commencement of work.
- 6.3 Based on the department need & time slot availability, contractor has to deploy the qualified fabrication teams along with machinery within 20 days from the date of clearance.
- 6.4 Based on the clearance, work front will be provided to the contractor for the fabrication of critical systems as mentioned in the clause No: 1.3 (a, b & c), at any point of time within the PO validity. After clearance, contractor has to complete the fabrication, erection, testing & commissioning of each critical system within shortest possible time frame for commencement of subsequent launch readiness activities.
- 6.5 In case of any need from the department for parallel fabrication of works of the above critical systems, contractor has to mobilize the suitable additional fabrication teams for carrying out the parallel fabrication activities.
- 6.6 In case of general maintenance fabrication works (as mentioned in clause No: 1.3 d), contractor has carryout the fabrication works based on the department need at FLP, SLP & BSF.
- 6.7 As the fabrication works need to be taken up in between launches/department clearances, continuous deployment of fabrication teams may not be possible. Accordingly, contractor has wait for the purchaser clearance for initiating the fabrication works, after release of PO. Also, there may be a requirement of intermediate stoppage & resuming of fabrication activities, due to launch activities.

7.0 General Terms & conditions:

- 7.1 **Manpower & Schedules:** Tentative start of work will be intimated to Contractor **Three weeks** in-advance.
- 7.2 The contractor will be allowed to work beyond office hours and including holidays to meet the project schedule.
- 7.3 **Transportation, accommodation, canteen of contract team & Material:** Transport vehicles required for movement of contract personnel from /to work site and Gate-1/ Sullurepeta, including internal movement within site, canteen & accommodation are in the scope of contractor.
- 7.4 Site will be kept open for round the clock basis (Contractor shall be allowed to work in three shifts for carrying out site works). Accordingly, welding teams shall be planned by the contractor. During launch/propellant activities in nearby storages/facilities, welding works will be stopped temporarily and the same will be intimate in advance.
- 7.5 To complete the work in time, it is recommended to deploy adequate manpower, supervisor and the work shall be carried out in two or three shifts based on requirement.

- 7.6 Progress review meetings will be conducted once in a week for monitoring the status of works and the contractor/supervisor need to attend with all relevant inputs.
- 7.7 The purchaser reserves Right to cancel the contract at any time in case of failure of the contractor to fulfil the various requirements mentioned in the Purchase order (like maintaining the team composition, number of welding teams, etc.)
- 7.8 For handling of pipes, pipe fitting, flanges, structural materials from storage to work spot, yard, different elevations, between two work locations and placing the pipes on pipe supports after fabrication is in the scope of contractor.
- 7.9 Bending of pipe line (up to 25NB pipe size based on department clearance) where ever required to be taken up.
- 7.10 Where ever painting works are involved, two coats (primer & finish) to be carried out by the contractor
- 7.11 Welding location will be identified by the department, for prefabrication welding and for keeping the free issue materials issued by department. Housekeeping of the identified facility shall be maintained properly & neatly, and it is in the scope of contractor.
- 7.12 Contractor shall comply all the terms & conditions of the contract and shall clearly indicate deviations, if any from indent specifications in the offer itself.
- 7.13 The contractor has to ensure that minimum wages, EPF, ESI applicable as per labor act for his manpower during the execution of work.
- 7.14 **Payment terms:** Payment will be made on pro-rata basis, for the completed portion of work after duly certified by the Department Engineer and approved by Approving Authority/Competent Authority. However, total number of bills shall be limited to 12 only.
- 7.15 **Working Personnel terms & conditions: Security:** The contractor shall follow entry permit and gate pass system for his team and materials while entering the SHAR gates. Contractor supervisor shall ensure that their personnel are strictly confined to the assigned job and place of work only.
- 7.16 **Safety:** Contractor has to give an undertaking that they will comply with prevailing safety norms at site put forth by department. Safety officer shall have full access to contractor's storage shed/office for inspection.
- 7.17 **Group Insurance:** Contractor shall mandatorily (*where ever ESI not applicable*) provide insurance to their work forces comprehensively against the risks during work undertaken by them in purchaser's work place through a comprehensive All Risk Insurance (ARI) policy obtained from any of the insurance companies as approved by the **Insurance Regulatory & Development Authority of India (IRDA)**. The contractor shall have to furnish originals of the ARI policy along with premium receipts and other papers thereto should submit to the department with a minimum coverage of Rs. 10 Lakhs per person (in the name of contract workforce) for entire contract period.
- 7.18 **Medical Assistance:** While executing this contract work, if any contract worker needs medical assistance, they will be provided with first-aid by department and However, contractor has to take care of subsequent medical treatment elsewhere.

- 7.19 **Minimum wages:** The contractor shall ensure minimum wages as prescribed in minimum wages Act as per the State / Central Government Act.
- 7.20 **Labor law:** The contractor shall not employ persons below 18 years of age. Contractor has to comply with all labor regulations as prescribed in various Acts in respect of himself and his man power.
- 7.21 **Contractor terms & conditions: Contractor shall obtain the clearance from the** Department for establishing shed/office with an undertaking for construction of shed with non- flammable material and for demolition of the same after completion of work with contractor's expenses.
- 7.22 The contractor shall take enough care to ensure to progress of the work without any material and personnel damage. It is the sole responsibility of contractor to ensure all safety norms to his personnel during transportation between work spot and Department/Contractor stores, and work in prefabrication area, in storage shed and in yard. Department will not hold responsibility to any mishap to the contractor personnel.
- 7.23 The contractor shall be responsible for the safe storage of radiography sources of his sub-contractor. Radiography source shall be stored in a room which is located about 5 Km from the work spot. However, transportation of source from the storage room to the work spot and back shall be the responsibility of contractor.
- 7.24 The contractor shall take prior approval from the Department for awarding sub contract for full / partial works in the contract if any and the payment for the subcontractor shall be the responsibility of the contractor.
- 7.25 **Penalty clause:** Department has to complete the project activities within the scheduled time and any delay from the contractor side is not acceptable.

Any delay from the contractor side, like delay in commencement works or non-deployment of full fabrication team (s) or frequently absence of the fabrication team (s), will have serious effect on the scheduled launch activities.

Hence, the contractor has to ensure the availability of fabrication team (s) for smooth execution of works as per the department need and in case of noncompliance of the above points, penalty will be imposed on the contractor and the penalty will be deducted from running bills of the contractor.

The penalty will be applied as mentioned below.

Table-1			
<i>Penalty applicable for absence of contract fabrication teams</i>			
S N	Activity	Time line	Penalty amount Rs.
1	Deployment of fabrication teams by the contractor as per P.O. terms & conditions, as per the department clearance.	-	-
2	For commencement of fabrication works, Intimation to the contractor will be given through e-mail for deployment of fabrication team (T0)	T0	Nil

3	Contractor has to deploy the fabrication teams within 20 days from the date of intimation, including welder qualification test (T1)	T1 = T0 + 20 days	Nil
Penalty for delay in commencement of the contract			
4	Absence of each fabrication team/day (penalty will be applicable per team per day)	T2 = T1 + 10 days	2, 000/ day
5		T3 = T2 + 10 days	3, 000/ day
6		T4 = T3 + 10 days	4, 000/ day
7	For the Non-commencement of fabrication activities after T4, SDSC SHAR reserves the right to terminate the contract and forfeit the SD amount with the approval of competent authority. However, Department decision is final.		
Penalty clause after commencement of works			
8	Non-deployment of full fabrication team (partially absence)/day (penalty will be applicable per team per day)		2, 000/ day
9	In case the department is not able to provide the work front or declares as non-working day (s), penalty will not be imposed on the contractor.		
10	The penalty will be applicable for the critical fabrication works and not applicable for the general fabrication activities mentioned in clause No: 1.3d.		

7.26 **Termination for Insolvency:** SDSC SHAR may, at any time, terminate the Contract by giving written notice to the Vendor, if the Vendor becomes Bankrupt or insolvent or any application for bankruptcy, insolvency or winding up has been filed against it by any person. In this event, termination will be without compensation to the Vendor, provided that such termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to SDSC SHAR.

7.27 **Invoking of Security Deposit:** Security deposit will be invoked for the following defaults from the bidder.

7.27.1 Based on the department need and available work-front, contractor has to provide the welding team (s) to carry out the work. There will be a temporary suspension of fabrication works due to safety restrictions / launch campaign activities, which will be intimated by the department and contractor has to resume the fabrication works within 5 days of intimation for redeployment. If the specified minimum number of TIG welding teams are not turned up for a period of more than 10 days from the time of intimation to commence the fabrication works with full manpower.

7.27.2 Negligence in carrying out the fabrication works or the unsatisfactory results of the fabrication work carried by the contractor.

7.27.3 If the performance of the contractor is not meeting the P.O terms and conditions.

7.27.4 In the event of any breach of any of the terms and conditions of the Contract, SDSC SHAR shall have the right to terminate the contract forthwith and/or to forfeit the entire amount of security deposit and also block listed.

7.28 **Contractor's responsibility & safety aspects:** The contractor shall train their workers on safety related aspects and implementation of safety precautions/procedures at work

site. It is the responsibility of the successful bidder to comply the same. The workforce deployed shall abide all the safety regulations and shall wear necessary safety equipment (PPE's) based on the need and nature of work.

7.28.1 Contractor has to provide an undertaking to comply with the prevailing safety norms at site put forth by the Department. Department safety officer shall have full access to contractor's storage shed at any time for inspection.

7.28.2 Utmost care shall be taken during all the activities at site, right from fabrication to commissioning. Also, contractor has to ensure protection for the nearby equipment's if any to avoid any damage.

7.28.3 Contract agency is solely responsible for any injury/death of the workforce. Department is not liable for any misshape.

7.28.4 It is the responsibility of the Contractor to provide the Medical facility / treatment to his work force. However, Department will provide the First Aid for any minor mishaps.

7.28.5 Contractor will be provided with the time to time safety and security regulations to be followed at work site by his employees. Violation of the same will attract penalty as per department norms.

7.29 **Applicable Law:** The contract shall be interpreted in accordance with the laws of the Union of India and shall be subjected to the exclusive jurisdiction of courts at AP.

7.30 **Termination:** SDSC SHAR reserves its right to terminate the contract for any reason at its absolute discretion including but not limited to the following: If the services are not adequate as follows, Breach of the contract terms & conditions and non-response of the contractor even after three notices, not deputing the required number of welding teams, poor quality of welders. In such cases, the supplier will also be black-listed in all GOVERNMENT portals for two years in addition to forfeiting "Security Deposit".

7.31 **Commercial Terms and Conditions:**

7.31.1 **Offer Validity:** The validity of the offers / tenders should be 120 days from the date of opening of the tenders. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation.

7.31.2 **Liquidated Damages:** Since delivery is the essence of this order, in case of delay by the contractor to completion of total scope of work beyond the stipulated delivery period, Liquidated Damage will be levied @ 1/2% per week or part thereof on undelivered portion on pro rata basis as pre-estimated damages subject to a maximum of 10% of total order value.

7.31.3 **Warranty:** Warranty is no applicable, as the specified item is a fabrication work contract.

7.31.4 **Security deposit:** To ensure due performance of the contract, please furnish security for 03% of the value of the Purchase Order within 15 days of award/release of contract as per the format issued by the purchaser. Security deposit may be furnished in the form of Account Payee Demand Draft, Fixed Deposit Receipt from a commercial Bank, Bank Guarantee (including e-Bank

Guarantee) from a scheduled Commercial bank executed on Rs.200/- non-judicial stamp paper or online payment in an acceptable form and shall be valid till the completion of total contractual obligation (i.e., contract period PLUS 60 days). This will not carry any interest and shall be returned to you after successful completion of contractual obligations against your request. In case of non-performance/poor performance/breach of contractual obligations, bank Guarantee shall be forfeited and in case if the vendor fails to furnish the security deposit within the specified date, the Purchase Order/Contract liable to be cancelled.

- 7.32 The contractors should note that conditional discounts would not have edge in the evaluation process of tenders.
- 7.33 Non-acceptance of any conditions wherever called for related to Guarantee/Warranty, Performance security, Liquidated damages/penalty clauses, the bids are liable for disqualification.
- 7.34 Purchase/Price Preference will be extended to the MSMEs under the Public Procurement Policy for MSMEs formulated under the Micro, Small and Medium Enterprises Development Act, 2006 and instructions issued by Government of India from time to time. Vendors who would like to avail the benefit of MSME should clearly mention the same and submit all the documentary evidences to substantiate their claim along with tender itself.
- 7.35 **Make in India Clause:** For this procurement, bids from Class-I and Class-II Local Suppliers are admissible.

Make-In-India (MII) Clause: For this procurement, provisions contained in Government Public Procurement Order No. P-45021/2/2017-PP(BE-II)-Part(4)Vol.II dated 19.07.2024 its latest directives/amendments there of shall be followed. Accordingly, you are requested to indicate the percentage of local content in the material, clearly mentioning the details of location(s) at which value addition is made in line with clause 9 to O.M dated 19.07.2024 referred above. It may be noted that Local Content shall not include services such as Transportation, Insurance, Installation, Commissioning, Training and after sales service support like AMC/CMC etc. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make in -India) order. Hence provisions contained in Public Procurement (Preference to Make in India), bidder shall provide compliance and undertaking as per order and hereafter amendments: Provisions contained in Government Public Procurement Order No. P-45021/2/2017-PP(BE-II)-Part(4)Vol. II dated 19.07.2024 is applicable.

- ✓ Class-I local supplier means a supplier or service provider, whose goods, service or works offered for procurement, has local content equal to or more than 50% as defined under this order.
- ✓ Class-II local supplier means a supplier or service provider, whose goods, services or works offered for procurement, has local content equal to or more than 20% but less than 50% as defined under this Order

- ✓ Procurement/ Supply of repackaged/ refurbished/ rebranded imported products as understood commonly shall be treated as reselling of imported products and shall be excluded from calculation of local content.
- ✓ Imported items sourced locally from resellers/ distributors shall be excluded from calculation of local content.
- ✓ The license fees/ royalties paid/ technical charges paid out of India shall be excluded from local content calculation
- ✓ Verification of local content:
 - ✓ The Class-I local supplier/Class-II local supplier at the time to tender, bidding or solicitation shall be required to indicate percentage of local content and provide self-certification that the item offered meets the local content requirement for Class-I local supplier/Class-II local supplier as the case may be. They shall also give details of the location(s) at which the local value addition is made.
 - ✓ In case bid value is in excess of Rs. 10 Crore, Class-I local supplier/Class-II local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant in respect of suppliers other than companies) giving the percentage of local content.
 - ✓ False declarations will be in breach of the code of Integrity under Rule 15(1)(i)(h) of the General Financial Rules (GFR) for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Rules along with such other auctions as may be permissible under Law.
 - ✓ A Supplier who has been debarred by any procuring entity for violation of this order shall not be eligible for preference under this order for procurement by any other procuring entity for the duration of the debarment.
 - ✓ The percentage of local content should be specifically mentioned in the offer, without which it will be summarily rejected.
 - ✓ Preference will be given to Class-I Local Supplier and in their absence, Class-II local supplier will be considered.
 - ✓ MSME clause can be considered for the suppliers those who technically meeting all the conditions & specifications only. For those MSME suppliers meeting all the specifications, If required the turn over, experience and executed orders can be relaxed.

7.36 **Delivery Term:** Fabrication works shall be carried out at SDSC SHAR, Sriharikota.

7.37 **Terms of Payments:** Payment shall be made on prorated basis for the work completed, upon duly certified by the Department Engineer and approved by the competent authority. However, maximum number of bills shall be limited to 20 only. All the payments due to bidder shall be made through PFMS and bidder shall submit the bank details along with cancelled cheque.

7.38 **Arbitration:** Applicable Law, Jurisdiction and Arbitration: The Contract 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 Work Package Order(s), 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.

- ✓ Work under the Work Package Order(s) shall be continued by the Service Provider during the pendency of arbitration proceedings, without prejudice to a final adjustment in accordance with the decision of the Arbitrator unless otherwise directed in writing by the Service Receiver or unless the matter is such the works cannot be possibly continued until the decision (whether final or interim) of the Arbitrator is obtained.
- ✓ ***In case order is concluded on the Public Sector Undertakings, the following Arbitration Clause will be applicable:*** In the event of any dispute(s) or difference(s) relating to the interpretation and application of the provisions of the commercial contracts between ISRO/SDSC SHAR & Central Public Sector Enterprises (CPSEs)/Port Trusts inter se and also between ISRO/SDSC SHAR & CPSEs and Government Departments/Organizations (excluding disputes concerning Railways, Income Tax, Customs & Excise Departments), such dispute(s) or difference(s) shall be taken by either party for resolution through the “Administrative Mechanism for Resolution of CPSEs Disputes (AMRCD)”, as mentioned in the Office Memorandum F No. 4(1)/2013-DPE(GM)/FTS-1835 dated 22nd May, 2018 issued by the Director of the Department of Public Enterprises (DPE) under the Ministry of Heavy Industries and Public Enterprises, Government of India.

7.39 **Force Majeure:** A Force Majeure (FM) means extraordinary events or circumstance beyond human control such as an event described as an act of God (like a natural calamity) or events such as a war, strike, riots, crimes (but not including negligence or wrong-doing, predictable/seasonal rain and any other events specifically excluded in the clause). An FM clause in the contract frees both parties from contractual liability or obligation when prevented by such events from fulfilling their obligations under the contract. An FM clause does not excuse a party’s non-performance entirely, but only suspends it for the duration of the FM. The firm has to give notice of FM as soon as it occurs (say, not later than 14 days after its occurrence), and it cannot be claimed ex-post facto. There may be a FM situation affecting the purchase

organization only. In such a situation, the purchase organization is to communicate with the supplier along similar lines as above for further necessary action. If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of FM for a period exceeding 90 (Ninety) days, either party may at its option terminate the contract without any financial repercussion on either side.

Notwithstanding the punitive provisions contained in the contract for delay or breach of contract, the supplier would not be liable for imposition of any such sanction so long as the delay and/ or failure of the supplier in fulfilling its obligations under the contract is the result of an event covered in the FM clause.

7.40 **Applicable Law and Jurisdiction:** The laws of India shall govern this contract for the time being in force. The Courts of Andhra Pradesh only shall have jurisdiction to be with and decide any legal matters or disputes what so ever arising out of the contract.

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

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

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

- ✓ When the supplier fails to deliver the materials even after extending the delivery period.
- ✓ 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.
- ✓ 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.

8.0 Bidding details: This is two-part bidding tender (Part-1 & Part-2).

Part -1: Details of *Techno commercial bid*

Part -2: Price bid is to be submitted separately.

Part-I: Techno-Commercial bid: The tenderer shall necessarily provide the following in the techno-commercial bid

7.1 The tenderer shall furnish **point-wise confirmation for the compliance attached in table-2), for evaluation of the offer.**

- 7.2 The tenderer shall necessarily furnish the details of previously executed orders. Necessary documentary evidence along with end user certificate (confirming the satisfactory performance) shall be submitted along with offer as a mandatory requirement. **Non-compliance of this requirement shall lead to rejection of the offer.**
- 7.3 **Bid Selection Procedure:** Shortlisting of bid will be based on documents submitted, satisfying all the eligibility criteria given above by the firm or individual along with their Bid/application. Non-submission of any document as given in above list within stipulated time leads to rejection of Bid.
- 7.4 **Vendor evaluation:**
- 7.4.1 After receipt of quotation from the bidders, their technical capability & credentials will be evaluated by the purchaser and their offers will be considered only after evaluation, if required.
- 7.4.2 Bidder will be evaluated based on the previous executed the fabrication & erection works. The bidder has to furnish/confirm the details of company location and contact person & number.
- 7.4.3 Based on the need, purchaser will evaluate the bidder by visiting the sites of previously executed works and credentials, for considering the bid for evaluation.
- 7.5 **Tenderer shall note that indication / revealing of price in the techno-commercial bid shall lead to dis-qualification of bid.**
- 7.6 **Disclosure of Price bid information in Techno- Commercial Bid shall be sufficient grounds for rejection of the bid.**
- 7.7 All the documents are to be submitted in e-procurement portal only. Documents submitted by hand/post will not be considered.
- 7.8 The price bids will be opened only after evaluation and acceptance of the technical bid of the respective tenderer.
- 7.9 **General conditions of the contract:** Contractor shall clearly indicate deviations if any from tender specifications in the offer, otherwise contractor has to accept all the terms and conditions put by the Department.
- 7.10 **Period of contract:** Period of Contract is for **2 years** from the date of release of purchase order.
- 7.11 **Quantity variation:** The quantity variation of + **20%** is permissible on the total contract value based on site requirements.
- 7.12 **Bidder Eligibility/Pre-Qualification Criteria:** *The Bidder must submit the following documentary proof to meet the Techno-commercial bid for prequalification of bidder. **without which the offer will not be considered.***

Table-2		
S.N	Confirmatory documents	Compliance Submitted/ not submitted
1.	A signed, stamped, scanned copy of all the pages of this tender technical document along with the Techno-commercial proposal as a token of acceptance of Tender terms & conditions.	Submitted/ not submitted

2.	Company/Society/Firm registered in India since last 5 (five) years or more. Submit the company profile along with documentary evidence.		Submitted/ not submitted
3.	Bidder should have executed SS fabrication contracts involving erection and commissioning of piping in any of the following industry <i>EPC projects or oil & petroleum industries or food industry or Chemical plants, etc.,</i> (i.e. SS TIG Welding for pipe & tube, bending of SS pipes, radiography of SS butt welded joints) and MS structural works (i.e. MS materials fabrication & erection works). Documentary evidence for the work completion, during the last five years shall be submitted for tender evaluation. Note: From the submitted work orders, the SS pipe lines fabrication works should be minimum of 50% of the total P.O value.		Submitted/ not submitted
4.	Single PO for similar works of Rs.60 Lakhs (or)		Submitted/ not submitted
5.	Two POs for similar works of Rs.45 Lakhs (or)		Submitted/ not submitted
6.	Three POs for similar works of Rs.30 Lakhs		Submitted/ not submitted
7.	Bidder has to submit the documentary evidence for simultaneous deployment of minimum TWO TIG welding teams during the execution of past work orders/POs. The documentary proof shall be such as their EPF/ESI contribution statement/salary statements/welder qualification certificate/company pay role/company issued id cards/Labour license during that PO execution period.		Submitted/ not submitted
8.	Bidder shall submit the maximum number of weld joints or inch dia executed with radiography for the submitted PO copies for S. No: 3.1/3.2/3.3 in table-2.		Submitted/ not submitted
9.	The works pertaining to the POs submitted by the bidder should have been completed within the delivery period and if there was any delay in completion of works, the offer will not be considered.		Confirm
10.	P.O copies with only structural steel welding, CS/GI pipe welding works are not acceptable.		Confirm
11.	Submitted POs should not have been sub contracted		Confirm
12.	Bidder shall confirm the fabrication activities carried out for around 1000 nos of weld joints of different sizes, within a period of 5 months in a single project.		Confirm
13.	Bidders shall submit the details of present available work orders/PO's		Available/ Not available
14.	Bidder shall submit the POs for any other similar works, If any		Submitted/ not submitted
15.	Confirm the availability in company/farm the following manpower, machineries and equipment's. TIG welding teams (Each team consist of 6G Welder, fitter, grinder & helper)	4 Nos	Available/ Not available

16.	TIG welding machines			4 Nos	Available/ Not available
17.	SMAW (ARC) welding machines			3 Nos	Available/ Not available
18.	Number of pedestal drilling machines availability, with a drilling capacity up to 20mm			2 Nos	Available/ Not available
19.	Gas cutting equipments			4 Nos	Available/ Not available
20.	Grinding/cutting machines			8 Nos	Available/ Not available
21.	Site engineers/supervisors			1 Nos	Available/ Not available
22.	The bidder should have average annual turnover of Rs.35 lakhs (Min) during last 3 years (Financial year <u>2022-23, 2023-24 & 2024-25</u>).				Available/ Not available
23.	Bidder shall provide solvency certificate for a value of Rs.15 lakhs from a Commercial Bank issued as on or after January 2026 along with offer.				Submitted/ not submitted
24.	Bidder shall have GST & PAN registration certificates and the same shall be submitted for evidence.				Submitted/ not submitted
25.	Self-declaration for not having any criminal case pending and should not have been blacklisted by Central/State Government organization/department in India at the time of submission of the Bid (Self-declaration has to be attached on stamp notary document)				Submitted/ not submitted
26.	Audited balance sheet & Profit & Loss A/c is to be submitted & filled, copy of the IT return filed during last 3 years financial years for <u>2022-23, 2023-24 & 2024-25</u> .				submitted/ not submitted
	Sl.no	Description	2022-23	2023-24	2024-25
	1	Annual turn over	*	*	*
	2	Profit	*	*	*
	3	Loss	*	*	*
(*) : To be filled by the bidder					

7.13 **Compliance:** Point wise compliance to the tender specifications shall be submitted and any deviation from the specification shall be highlighted clearly in the offer itself.

7.14 **Award of contract:** In order to have better control on work quality and as the works are inter related, splitting the order item-wise is not envisaged and contract will be awarded on **Overall L1 basis** only.