

भारत सरकार
अंतरिक्ष विभाग
सतीश धवन अंतरिक्ष केंद्र शार
श्रीहरिकोटा रेंज डा.घ. 524 124
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**GOVERNMENT OF INDIA:: DEPARTMENT OF SPACE
SATISH DHAWAN SPACE CENTER SHAR:: SRIHARIKOTA – 524 124
SRI POTTI SREERAMULU.NELLORE DISTRICT (A.P)**

TENDER NOTICE NO. SDSC SHAR/Sr.HPS/PT/RO-LSSF/27/2022-2023

On behalf of President of India, Sr. Head Purchase and Stores, SDSC SHAR, SRIHARIKOTA invites on line quotations for the following.

Sl.No	Ref. No.	Description	Qty.
01.	SHAR LSSF 2022001294 New E-Procurement [Public Tender - Two Part]	Stainless Steel Studs with 2 nuts & 2 washers	01 Lot

Last Date for downloading of tender documents : 21.11.2022 at 16:00 hrs.
Due Date for submission of bids online : 21.11.2022 at 16:00 hrs.
Due Date for opening of tenders : 22.11.2022 at 14:30 hrs.

Instructions to Tenderers:

Bids shall be submitted on line through EGPS only and No tender fee shall be applicable.

01. For full details/scope of work and terms and conditions etc., please see the enclosed annexures.
02. Interested tenderers can download the e-tender from ISRO e-procurement website ISRO NEW E-PROCUREMENT (www.eproc.isro.gov.in) and submit the offer on line in the e-procurement portal. Offers sent physically by post/courier/in person will not be considered.
03. 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 downloaded and offer submitted on line in the new e-procurement portal only.
04. Quotations received after the due date/time will not be considered.
05. The tender documents are available for download up to 21.11.2022 at 16:00 hrs. and last date for submission of tenders on line 21.11.2022 at 16:00 hrs. and Tender Opening on 22.11.2022 at 14:30 hrs.
06. Interested vendors can attend the Bid opening sessions to know the details. Presence not mandatory to consider the quote for evaluation.
07. Sr. Head, Purchase and Stores, SDSC-SHAR, Sriharikota reserves the right to accept or reject any/or all the quotations.

Gem Non-Availability report ID: GEM/GARPTS/18102022/PD5C0F7V5CKR

DT: 18.10.2022


Sr. HEAD PURCHASE AND STORES

भारतीय अंतरिक्ष अनुसंधान संगठन



Indian Space Research Organisation

Specification for supply of Fully Threaded SS Studs with 2 Nuts & 2 Washers

1. Scope of supply

The scope of supply includes manufacturing and supply of Fully threaded SS Studs with 2 Nuts & 2 Washers as per the enclosed specifications.

2. General Conditions:

2.1 Suppliers shall submit the bids in **TWO-PART** bid basis. Part-I shall be techno-commercial bid and Part-II shall be price bid.

2.2 Bid shall remain valid for acceptance for a minimum period of **120 days** 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 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 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 The bidder shall necessarily be a manufacturer of fully threaded SS Studs with 2 Nuts & 2 Washers. Traders/Dealers/Agents need not quote.

3. Documents Comprising the Bid

Bids shall be submitted in the following order.

Part-1: Techno- Commercial Bid

Techno commercial bid shall be filled in the techno-commercial bid format. Schedule of prices shall **not be filled** in this format. Deviations in terms and conditions, assumptions etc. shall be stipulated in column specified in the portal. **Technical bid received with prices will be invalid and shall not be considered for further evaluation.**

Part-2: Price Bid

- Prices shall be filled in the price bid format of the e-portal only. The price bids will be opened only after evaluation and acceptance of the technical bid of the respective tenderer.
- Vendor evaluation by a technical team of SDSC SHAR has to be accepted by the party. The vendor evaluation will be done after the opening of technical bid and before the opening of price bid if required.
- The bidder shall carryout any tests if required on studs/nuts/washers in the presence of SDSC SHAR technical team during the vendor evaluation. **No extra charges shall be paid for the tests and to be done free of cost.**
- SDSC SHAR reserves the right to reject any or all the Bids without assigning any reasons thereof.

4. BID EVALUATION

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

4.2 Bidder must provide the point by point compliance to the technical specifications along with deviations if any. The tender will be rejected, if the deviations are not acceptable to the department.

- 4.3 Bids from the manufacturers of SS Studs will only be considered and the bidder shall confirm the same. Offers from Traders/Dealers/Agents will not be acceptable.
- 4.4 The bidder shall have necessarily executed atleast 1 order of more than ₹32 lakhs (or) 2 orders of more than ₹20 lakhs (or) 3 orders of more than ₹16 lakhs confirming the manufacturing and supply SS studs during the past three financial years (2018-19, 2019-20, 2020-2021). Copies of purchase orders to be submitted along with the quotation, failing which the offer will not be considered.
- 4.5 The bidder shall submit the following along with the tender
- a. Company's profile comprising of manpower and annual turnover for the past 3 years.
 - b. Machinery available and their details.
 - c. Codes/Standards followed.
 - d. Production capacity per annum.
 - e. Orders executed for the past 3 financial years (2018-19, 2019-20, 2020-2021) for the supply of SS Studs.
 - f. Orders in hand for the supply of SS Studs (if any).
 - g. Source of raw material.
 - h. Testing facilities available.

5. Payment Terms:

Our general payment terms are within 30 days after receipt and acceptance of items at purchaser's (SDSC-SHAR, Sriharikota) site. The bidders shall give point-wise confirmation to all the specifications without which the offer will not be considered. Deviations any shall be clearly indicated.

6. Delivery Schedule:

Delivery of items is the essence of the contract. All the items shall be delivered to SDSC SHAR within 6 months from the date of release of PO.

- 7. Documentation:** At the time of dispatch 2 sets of documents comprising all the test reports including copies of type test certificates shall be submitted.

TECHNICAL SPECIFICATION FOR SS STUDS

Specifications:

Studs shall be fully threaded and MOC shall be Stainless Steel (SS 316) only. Each stud shall have two hexagonal nuts and two numbers of washers (one set consists of 1 no of stud + 2 nos of nuts + 2 nos of washers).

Studs and nuts shall confirm as follows:

Studs : ASTM A 193 Gr.B8M

Nuts : ASTM A 194 Gr.8M

Washers : SS 316 (1mm thick upto M12 size, 1.5mm thick from M16 to M22 and 2mm thick above M22 size). Testing shall be done to meet the above standards.

MANUFACTURING SPECIFICATIONS

1. After cutting the rods to required length, the rods shall be solution annealed prior to thread rolling.
2. **All threads shall be made by Thread rolling method only. Threading by machining is not accepted.**
3. Before dispatch, Purchaser's Representative shall carry out inspection at Manufacturer's site as per QAP.
4. Manufacturer shall strictly follow QAP and necessary records shall be made available at the time of inspection. The supplier shall inform the readiness of items for inspection at least one week in advance.
5. Samples for chemical, mechanical and IGC test for the raw material before thread rolling shall be drawn by the purchaser. (the supplier shall inform the readiness).
6. The studs shall be free from cracks, burrs or any other surface defects.
7. Dimensions of Studs and Nuts shall be as per IS-1364.
8. All Nuts shall be of hot forged / hot rolled quality only. Cast nuts will not be acceptable. Nuts shall be tested as per standard specified.
9. Material tests shall be conducted as per code specified. Chemical & physical tests and IGC tests shall be carried out in Government recognized laboratories only. Minimum of one specimen shall be drawn from each size. Testing charges shall be included in the offer. It is to be noted that samples to be selected randomly as per QAP by our Department Engineer. All Test Certificates shall be furnished to the purchaser.
10. The pitch of the threads shall be standard and to be quoted in the offer.
11. The supplier shall accept part order also and shall quote the value of minimum ordering quantity in the offer.
12. Purchaser reserves the right to inspect the material at any stage and reject the material if it is not meeting the specification.
13. All bolts, nuts and washers shall be pickled by dipping in the acid solution of 20% of Nitric acid, 2% Hydrofluoric acid in balance water for about 2 hours and passivated by dipping in the acid solution of 25% Nitric acid in DM water for 2 hours.
14. Each lot shall be neatly packed and tagged to avoid any transit damage.

QUALITY ASSURANCE PLAN (QAP) FOR SS STUDS & NUTS

Sl No.	Characteristics/ Type of Check	Ref. Document	Method of Check	Quantum of Check	
				Supplier's QC	Purchaser's Inspector
Raw Material Analysis of Studs					
1.	Identification of raw material & verification of MTCs	ASTM A 193 Gr. B8M	Verification of material certificates	100%R	Sample Selection & Review of Test Reports
2.	Solution annealing of rods after cutting to required lengths	As per standard	Review of Test Certificates	100%R	
3.	Mechanical Testing (One number from each Lot/heat)	ASTM A 193 Gr. B8M	Review of Test Certificates	100%R	
4.	Chemical Analysis (One number from each Lot/heat)	ASTM A 193 Gr. B8M	Verification of material certificates	100%R	
5.	I.G.C Test (One number from each Lot/heat)	ASTM A262 Practice-E	Review of Test Certificates	W & R	
Note: The supplier has to obtain clearance from purchaser to commence production based on test reports.					
After manufacturing of Studs					
6.	Dimensional and Visual Inspection of Studs, Nuts & washers.	As per PO	Measurement and Visual Inspection	100% H	10% RN
Note: The studs/Nuts & washers are to be packed and sealed with respect to each size in the presence of purchaser's representative after the selection of samples for final inspection.					
After Physical Inspection of Studs / Nuts					
7.	Chemical Analysis of Nuts & washers (One number from each Size)	ASTM A194 Gr.8M	Verification of material certificates	100% H	Sample Selection & Review of Test Reports
8.	Chemical Analysis of studs (One number from each size)	ASTM A 193 Gr. B8M	Verification of material certificates	100%H	
9.	Mechanical Testing of studs. (5 samples selected randomly)	ASTM A 193 Gr. B8M	Verification of material certificates	100%H	
Note : 1. Sample shall be selected by the Purchaser's Representative for testing. 2. Dispatch clearance will be given by Purchaser's Representative after the review of Final Chemical Analysis & mechanical testing reports. 3. The Studs, Nuts & washers are to be dispatched in assembled condition.					

Legend: R-Review, W- Witness, RN- Randomly, H-Hold