

भारत सरकार
अन्तरिक्ष विभाग
सतीश धवन अन्तरिक्ष केन्द्र
शार
श्रीहरिकोटा रेंज डा.घ.524 124,
नेल्लूर जिल्ला, आं.प्र., भारत
टेलिफोन: +91-8623-245060 (10 जं)
फेक्स: +91-8623-225160



Government of India
Department of Space
Satish Dhawan Space Centre
SHAR
Sriharikota Range P.O. 524 121,
Nellore Dist., A.P., India
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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/02/2019-2020

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

SI No	Ref. No.	Description	Qty.
01	SHAR LS 2019 0 11445 e-procurement [Two Part basis]	Supply of Concentrated Nitric Acid	Lump sum
02	SHAR LS 2019 0 11446 e-procurement [Two Part basis]	Supply of Anhydrous Liquid Ammonia	Lump sum
03	SHAR LS 2019 0 11447 e-procurement [Two Part basis]	Supply of Furnace Oil	Lump sum
04	SHAR VAST 2019 0 11066 e-procurement [Two Part basis]	Grab tackle of SS1 for SLC	Lump sum
05	SHAR VAST 2019 0 12111 e-procurement [Two Part basis]	Conversion of bubble lift to Flame proof lift	Lump sum

Last Date for downloading of tender documents : 01.10.2019 at 16:00 hrs.
Due Date for submission of bids online : 01.10.2019 at 16:00 hrs.
Due Date for Bid Sealing on : 01.10.2019 at 16:01 hrs. to 01.10.2019 at 17.30 hrs.
Due Date for Open Authorization : 01.10.2019 at 17.31 hrs. to 03.10.2019 at 17:00 hrs.
Due Date for opening of tenders : 04.10.2019 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 <https://eprocure.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 e-procurement website <https://eprocure.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 e-procurement portal only.
04. Quotations received after the due date/time will not be considered.
05. The tender documents are available for download upto 01.10.2019 at 1600 hrs. and last date for submission of tenders on line 01.10.2019 at 1600 hrs. and Tender Opening on 04.10.2019 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.

DT: 03.09.2019

Sr. HEAD PURCHASE AND STORES

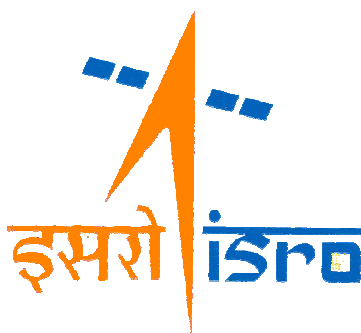
REQUEST FOR PROPOSAL (RFP)

CONVERSION OF EXISTING NON FLAMEPROOF BUBBLE LIFT TO FLAME PROOF GROUP-IIC COMPATIBLE LIFT AT UMBILICAL TOWER OF SECOND LAUNCH PAD (SLP)

Indent No. SHAR/VAST/2019012111

SPECIFICATIONS

OWNER : INDIAN SPACE RESEARCH ORGANISATION
PROJECT : GAGANYAAN PROJECT
LOCATION : SDSC SHAR, SRIHARIKOTA



**GAGANYAAN LAUNCH PAD SYSTEMS
SECOND LAUNCH PAD
SATISH DHAWAN SPACE CENTRE SHAR
INDIAN SPACE RESEARCH ORGANIZATION
SRIHARIKOTA - 524 124, A.P.**

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GENERAL SPECIFICATIONS

Proposals are invited from the interested bidders for the enclosed scope of work in two-part bid. Part-1 technical and unpriced part of the work and Part-2 Priced commercial part.

The RFP document is organized in four sections as follows.

- Section –A General Terms and Conditions of the Contract
- Section –B Scope of Work
- Section –C Technical Specifications
- Section–D Annexures

Title of the proposal: “Conversion of existing non flameproof bubble lift to Flame Proof Group-IIC compatible lift at Umbilical Tower of Second Launch Pad (SLP)”

1.0 General Instructions to Bidders

- 1.1. Bidder shall sign and stamp each page of the tender document (proposal) as token of his acceptance, scan & submit online along with his offer. in case, if the bidder is unable to upload all the documents, they can submit the same through post in a sealed cover by indicating tender no. with due date as per details given in clause 2.6.1
- 1.2. Transfer of Proposal document to any other lift manufacturing company is not allowed.
- 1.3. The bid shall be submitted before the time limit specified in the letter inviting the bid.
- 1.4. The bids will be opened on the date and time specified in the letter inviting bid or as soon as thereafter as convenient. Offers not received in time will not be considered.
- 1.5. Proposal documents shall remain the property of SDSC SHAR and shall not be used for any other purpose without the consent of the SDSC SHAR.
- 1.6. The proposal shall be completely filled in all respects and shall be tendered together with requisite information and Annexure. Any offer incomplete in any particulars is liable to be rejected.
- 1.7. Tenderer, shall set their quotations in firm figures and without variations/additions in the terms given in RFP.

1.8. Proposal containing qualifying expressions such as "subject to minimum acceptance" or "subject to prior sale" or any other qualifying expressions or incorporating terms and conditions at variance with the terms and conditions incorporated in the Proposal documents are liable to be rejected.

1.9. ADDENDA /CORRIGENDA

Addenda/corrigenda to the tender document may be issued by SDSC SHAR prior to the date of opening of the tenders, to clarify or reflect modifications in the contract terms and conditions. Such addendum/corrigenda will be distributed to each firm or person who had purchased the tender documents.

1.10. AMBIGUITY

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 the SDSC SHAR in writing.

2.0 PREPARATION OF BIDS

2.1 Site Visit

2.1.1 The tenderer, is advised to visit and examine the site and its surrounding to familiarize himself of the existing facilities and environment and shall collect all other information which may require for preparing and 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 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 and 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 the 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

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.

2.5 Schedule of Prices

The schedule of prices in **Annexure-2** shall be read in conjunction with all the sections of proposal document. The price must be filled in the price bid format.

2.6 Documents Comprising the Bid

Bids shall be submitted as two part bid basis containing technical and commercial terms and conditions.

2.6.1 Part – I Technical and Unpriced Commercial Part

Technical and unpriced commercial part shall comprise the following document & they shall be signed and uploaded in ISRO e-procurement portal. In case of space problem, these documents shall be submitted in signed and stamped hard copy in sealed cover

- (a) Submission of bid letter along with one set of proposal document (RFP) duly signed and stamped as token of acceptance
- (b) Power of attorney in favour of authorized signatory of the bid / proposal documents.
- (c) All the annexure enclosed in proposal duly filled, signed and sealed.
- (d) Unpriced copy of schedule of prices with all other commercial terms, taxes, duties, exemption certificates and conditions duly filled (Prices to be kept blank), signed and stamped
- (e) Data sheets for all the equipment & checklists enclosed in proposal duly filled, signed, & stamped.
- (f) Technical details, catalogue, etc as applicable and any other document as

mentioned in the proposal.

- (g) Conceptual layout/ design with preliminary inputs.
- (h) Deviation statement, filled, signed & stamped.
- (i) Any other relevant document, bidder desires to submit.

If the documents cannot be attached due to space restriction, the documents can be sent by COURIER / POST to the following address.

PART-1 TECHNO COMMERCIAL BID	
Name Of The Client	Satish Dhawan Space Centre SHAR Indian Space Research organization
Name of the proposal	“Conversion of existing non flameproof bubble lift to Flame Proof Group-IIC compatible lift at Umbilical Tower of Second Launch Pad (SLP)”
Tender No: SHAR/VAST/2019012111	
Due Date & Time of opening	DD/MM/YYYY
From (Name of the bidder with address)	

To:

**The Sr. Head, Purchase & Stores
Satish Dhawan Space Centre SHAR
ISRO, Dept. of Space
Govt. of India
Sriharikota – 524124
SPSR Nellore Dist, Andhra Pradesh, India**

2.6.2 Part – II Priced Commercial Bid

Priced commercial bid shall contain price bid form which shall be duly filled and submit to purchase. No deviations, terms and conditions, assumptions, conditions, discounts etc. shall be stipulated in price bid. SDSC SHAR will not take cognizance

of any such statement and may at their discretion reject such bids.

- (a) SDSC SHAR may open part-1 of the bid on the due date of opening, subject to meeting the minimum evaluation criteria. Price bids (part-2) of technically and commercially acceptable offers will 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) Party shall quote for the complete system as given in the scope of supply as per the format mentioned in Annexure-2. Bids containing the offers for partial supply will be rejected. However, SDSC SHAR reserves right to place order for either full quantities of all items or partial quantities and partial items based on the unit rates available.

3.0 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.

4.0 BID EVALUATION

- 4.1 During evaluation, SDSC SHAR may request Bidder for any clarification on the bid, additional documents.
- 4.2 Techno-commercial discussion shall be arranged with Bidder, if needed. Bidder shall depute his authorised representatives for attending discussions. The representatives attending the discussions shall produce authorisation from his organisation to attend the discussion and sign minutes of meeting on behalf of his organisation if required. The authorised representative must be competent and empowered to settle/decide on all technical and commercial issues.
- 4.3 Bidder must provide the point by point compliance to the technical specifications along with deviations in enclosed format as given in **Annexure-1**. The tender can be rejected if the deviations are not acceptable to the Department.
- 4.4 Bidders strictly fill the checklist provided in **Annexure-3**. The bids received without providing the exception / deviation, scheduled of prices & check list as given in **Annexure-1, 2 & 3** will not be considered for Bid evaluation.
- 4.5 The time schedule for completion is given in the Proposal document. Bidder is required to confirm the completion period unconditionally.
- 4.6 If necessary, to arrive at evaluated prices, wherever applicable, loading on total quoted prices shall be done.
- 4.7 SDSC SHAR reserves the right to reject any bid if technically/commercially not meeting the requirement/terms & conditions. Such decisions by the SDSC SHAR shall bear no liability whatsoever consequent upon such decision.
- 4.8 The Bidder, whose bid is accepted by SDSC SHAR, shall be issued a Letter of Intent (LOI) /Purchase Order (PO) to proceed with the work. Bidder shall confirm acceptance by returning a signed copy of the LOI/PO. Bidder shall confirm acceptance by returning a signed copy of the LOI/PO along with 10% of total order value as security deposit within 10 days from LOI/POS.

5.0 PRE-QUALIFICATION CRITERIA

All the tenderers shall meet the following pre-qualification criteria. Offers of Those parties not meeting the criteria will be duly rejected and will not be considered for evaluation. Bidder shall submit the compliance for the questionnaire given in this document.

A. Technical Qualification Requirements

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

1. Bidder shall be an organization with at least 5 years in execution of contracts for manufacture, supply, erection, testing and commissioning of normal lifts and flame proof lifts.
2. The firm shall have successfully completed manufacturing, installation, testing and Commissioning of at least one flame proof elevators in the Gr-IIC class, Zone-1, T4/ higher class in last 10 years ending with 31.03.2019.
3. Bidders have to provide relevant certificates, purchase orders and amendments etc. to the values along with the Techno-Commercial Bid, without which the offer will be summarily rejected.

B. Financial Qualification Requirements

1. The Bidder's average annual financial turnover shall be not less than Rs 6 crores per year during last three Financial years ending with 31.03.2019.
2. During Last 5 Years ending 31.03.2019, the bidders should have successfully completed minimum one similar work of flame proof elevator of worth 100Lakhs.

C. Documents to be submitted along with the bid submission

1. Firm establishment certificate and nature of work.
2. Details of work similar type completed during the last 10 years ending

3. Satisfactory work completion certificates from the clients, with the work order copies
4. The Bidders PAN, GST Registration No.
5. IT/ TDS certificate shall be submitted for last three years.
6. Structure and Organization chart of the company.
7. List if personnel with qualification & experience in the firm in the areas of design, production, quality, safety, administration etc.,
8. List of Machinery & Equipment's 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. (Non – 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 this project.
3. Feedbacks from Bidder's clients will be verified.
4. Visit to sites by technical team (ISRO or Third party) where Bidder has established facilities for above mentioned works.
5. If required, visit will be made to their factory/ firm by technical team (ISRO or third party) for accessing the capability of manufacturer.
6. Scrutiny of all technical specification and supply conditions mentioned in techno-commercial bid.

Vendor Evaluation Format

SDSC SHAR seeks response to the following 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.

S. No	Description	Supplier Response
1.	Name of the company :	
2.	Type of the Company : (Proprietary/Pvt. Ltd/Public Ltd/Joint Venture/Consortium)	
3.	Registration Number :	
4.	Year of Inception of the Company :	
5.	Registered address :	
6.	Name & Address of the Office of the Chief Executive of the Company :	
7.	Contact person for this tender with name & address, email and contact number :	
8.	Locations of the Branches of Company (if any) :	
9.	Current Annual turn-over of the company :	
10.	Major customers (Enclose copies of the Purchase Orders) :	

S. No	Description	Supplier Response
11.	Any customers feedback on the services which is in writing (Pl. enclose copies)	:
12.	Latest income tax certificate	:
13.	PAN Card Copy	:
14.	Details of last 10 years of experience of tenderer in executing similar type of work.	PO numbers & description of work <i>Note: copy of purchase orders may be enclosed.</i>

Signature of Authorized Person with Seal

SECTION -A

GENERAL TERMS AND CONDITIONS OF THE CONTRACT

1.0 INTRODUCTION

SDSC SHAR invites tender through e-procurement from eligible & experienced parties, for “**Conversion of existing non flameproof bubble lift to Flame Proof Group-IIC compatible lift at Umbilical Tower of Second Launch Pad (SLP)**” as per the specifications.

2.0 SCOPE OF WORK AND TECHNICAL SPECIFICATIONS

The detailed scope of work and technical specifications are given in Section B & C of RFP document. The general terms and conditions are given below.

3.0 THE TENDERER E'S OBLIGATIONS & FUNCTIONS

3.1. SPECIFICATIONS AND DRAWINGS

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

3.2. APPROVAL OF TECHNICAL DOCUMENTS / DRAWINGS

The tenderer shall prepare and submit to SDSC SHAR for approval of the following documents and drawings:

- 3.2.1. Preliminary & detail design report and GAD, catalogue of bought out item.
- 3.2.2. Manufacturing and assembly drawings
 - 3.2.2.1. Erection sequence schedule along with erection drawings.
 - 3.2.2.2. No activity shall be executed unless SDSC SHAR's approval is obtained. The above documents / drawings shall be submitted in a format approved by SDSC SHAR.

3.3. DELIVERY AND STORAGE

- 3.3.1. 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 to fit.
- 3.3.2. The tenderer shall be responsible for transporting all the equipment/material to site, unloading and storage. If the tenderer wishes to carry out the work insitu at SDSC site, suitable location will be identified.
- 3.3.3. No equipment/material shall be delivered without obtaining dispatch clearance from SDSC SHAR.
- 3.3.4. All the equipment/material shall be properly packed to avoid any damage during transportation / handling / storage.

- 3.3.5. No locked storage facility/container shall be provided by department. Supplier need arrange the storage facility/container in its own cost.
- 3.3.6. The tenderer shall take proper care while storing the equipment and shall provide watch and ward at his own cost.

4.0 ERECTION

4.1. GENERAL

- 4.1.1. The tenderer's staff shall include adequate number of competent erection supervisors with proven experience on similar works to supervise the erection works and sufficient skilled, unskilled and semiskilled labour to ensure completion of work in time.
- 4.1.2. During erection, department's engineer will visit site from time to time with or without the tenderer's supervisor to establish conformity of the work with specification. Any deviations, deficiencies or evidence of unsatisfactory workmanship shall be corrected as instructed by Department.
- 4.1.3. The tenderer shall carry out work in a true professional manner and strictly adhere to the approved drawings. Any damage caused by the tenderer during erection to new or existing structures shall be made good at no extra cost to department.

4.2. RECORDS

- 4.2.1. The tenderer shall maintain records pertaining to the quality of erection work in a format approved by Department. Whenever erection work is complete, M/s The tenderer shall offer erected equipment for inspection to Department's engineer who along with The tenderer Elevator's engineer will sign such records on acceptance.

4.3. EQUIPMENT ERECTION

- 4.3.1. The tenderer shall carry out the works in accordance with the specific instructions given on the approved drawings, method statements, manufacturer's drawings / documents or as directed by Department. Equipment shall be erected in neat workmen like manner so that they are level, plumb, and square and properly aligned and oriented. No equipment shall be grouted or bolted down to the foundation, until its alignment is checked and found acceptable by Department.
- 4.3.2. The tenderer shall provide all supervision, labour, tools, machines, cranes, equipments, scaffolding, and incidental material such as bolts, welding material etc. required to complete the works. The tenderer shall also provide at his own

cost all such consumables like oxygen – acetylene for gas cutting, welding rods, grinding wheels, temporary supports, shims etc. required to complete the work.

4.3.3. The tenderer shall take utmost care while handling instruments, delicate equipment panels etc. and protect all such equipment on erection.

4.4. SAFETY

The tenderer shall follow the safety regulations / codes and shall take necessary measures at their own cost.

4.5. ERECTION & CONSTRUCTION POWER SUPPLY

4.5.1. Electrical power and available material handling equipment may be extended by SDSC SHAR on free basis. However onward distribution shall be by the tenderer. Installation of necessary energy meters, switchgear & distribution system, etc for Construction power in a safe manner in strict conformity with local rules & regulations will be responsibility of the tenderer.

4.5.2. During non-availability of power, the tenderer shall make their own arrangement of alternate power source at their cost.

4.6. WORK RULES

Works at night hours and public holidays shall be carried out with written permission from the department.

4.7. SITE CLEARANCE

Upon completion of work, the tenderer shall remove all their equipment and material from the site within one month or time mutually agreed. The tenderer at all times shall keep site in clean condition and remove all unwanted material at regular intervals. In case the tenderer fails to remove all their equipment and material within the mutually agreed time it is deemed that SDSC SHAR will arrange to remove the same at the tenderer's cost.

4.8. ACCOMMODATION & INSURANCE

4.8.1. Very limited accommodation may be provided by SDSC SHAR to senior supervisory staff on chargeable basis subject to availability. The tenderer shall make their own arrangement for accommodation & canteen facility for all its staff, technicians, labour & workers including transportation to the staff. No labour camp is permitted at work place.

4.8.2 Before starting the site work, the tenderer has to insure all his personnel working at site in Sriharikota against accidents.

4.8.3 Transit insurance for the transportation of the total system from tenderers site to the purchaser's site is the scope of the tenderer only.

4.9. MEDICAL FACILITIES

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

4.10. WORK PROGRAMME

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

4.11. SUB-CONTRACTS

4.11.1. Whole of the work shall not be subcontracted.

4.11.2. Any subcontracting shall be after approval of SDSC SHAR.

4.11.3. The tenderer shall be responsible for the proper execution of any sub-contract placed by their, in connection with this purchase order.

4.11.4. The tenderer shall furnish to SDSC SHAR the copies of all un-priced sub-orders showing promised delivery dates and places.

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

4.12.1. The tenderer shall obtain approval for the detailed engineering/fabricated drawings from SDSC SHAR before initiating the action for procurement / fabrication.

4.12.2. If any changes in the design are sought, the tenderer has to incorporate those changes in the corresponding fabrication drawings and should get approval from SDSC SHAR for those drawings before procurement / fabrication.

4.12.3. During the design review the tenderer has to carry out the mutually agreed modifications to meet the overall requirement of the bubble lift system.

5.0 TAXES AND DUTIES

- 5.1 As per Notification No. 47/2017-Integrated Tax (Rate) Dt: 14.11.2017 issued by Ministry of Finance (Dept. of Revenue), SDSC SHAR is eligible to avail a reduced rate of IGST@5% for the procurements of goods made by the Dept. of Space (DOS) being a Public Funded Research Institution. We will provide IGST Exemption Certificate.
- 5.2 CGST/SGST/UTGST/IGST (whichever is applicable) shall not be included in the lump sum quote, but indicated (both percentage of tax applicable & amount on which it is applicable) separately in schedule of prices.
- 5.3 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.
- 5.4 CGST/SGST/UTGST/IGST shall be paid at actuals against Tax Invoice but restricted to the amount and percentage in the contract.

GST details of SDSC SHAR are given below

GSTIN: 37HYDF00385A1DZ

LEGAL NAME: SATISH DHAWAN SPACE CENTRE SHAR

VALIDITY FROM:06/10/2018

TYPE OF REGISTRATION: REGULAR

6.0 RISK COVERAGE

The tenderer 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, fabrication, erection, testing and commissioning at site. The period of such coverage shall be up to contractual completion period or any extension granted by Department thereof.

7.0 INCOME TAX

Income tax at the prevailing rate as applicable and if applicable from time to time shall be deducted from the tenderer's bills as per Income Tax Act. and a certificate issued (TDS Certificate).

8.0 EARNEST MONEY DEPOSIT (EMD)/BID SECURITY

The tenderer has to submit an Earnest Money Deposit (EMD) for Rs.3,00,000 (Rupees three Lakhs) in a single installment through Demand Draft (DD)/Banker's Cheque/Fixed Deposit Receipts or Bank Guarantee from any of the Scheduled Banks executed on non-judicial stamp paper of appropriate value. In case of Bank Guarantee, it shall be valid for a period of 45 days beyond the final tender validity date. It shall be taken in favour of Sr. Accounts Officer, SDSC SHAR payable at State Bank of India, Sriharikota branch. Any tender not accompanied with EMD shall be treated as invalid tender and rejected.

EMD of a vendor shall be forfeited if the tenderer/Contractor withdraws or amends his tender or deviates from the tender in any respect within the period of validity of the tender. Failure to furnish security deposit / performance bond by a successful vendor within the specified period shall also result in forfeiture of EMD.

EMD shall be refunded to all the unsuccessful vendors within thirty days after placement of the Purchase Order. EMD shall be refunded to the successful tenderer/Contractor after payment of the Security Deposit or may be adjusted against the Security Deposit. EMD shall be refunded to all the participants in cases where the tender is cancelled or withdrawn by the Centre/Unit, within thirty days from the date of such cancellation or withdrawal.

9.0 SECURITY DEPOSIT

- 9.1. The tenderer, will be required to furnish by way of Security Deposit for the due fulfillment of the contract by an amount to 10 % of the contract price of the work awarded.
- 9.2. The security deposit (bearing no interest) shall be held by the Department as security till satisfactory completion, testing and handing over of all the system and for the due performance of all The tenderer' obligations under the contract as per delivery period or extension granted thereof by the Department.
- 9.3. The tenderer within 10 days of Purchase Order or signing of Contract, deposit with the Accounts officer, Satish Dhawan Space Centre SHAR, Sriharikota as detailed above by any one or more of the following modes namely
 - i. By a crossed demand draft in favour of Accounts officer, Satish Dhawan Space Centre SHAR drawn on SBI and payable at Sriharikota.
 - ii. By an acceptance bank guarantee. The bank guarantee shall be from a nationalized bank for & shall be valid for 30 days beyond completion period.

9.4. In case of breach of contract, the Security deposit shall be forfeited in addition to other relief available to the Department under this contract.

10.0 PACKING AND FORWARDING

10.1. The tenderer 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 tenderer shall be non-returnable.

10.2. 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 tenderer.

11.0 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.

12.0 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.

13.0 GUARANTY

The tenderer shall guarantee that the equipment/material furnished by him is in conformance with the requirement of the specifications. Goods covered by the contract shall be free from defects in design, materials or workmanship for a period of **twenty four** months from the date of successful commissioning & acceptance by Department.

14.0 SCHEDULE OF PRICE

14.1 CONTRACT price shall include all costs of “design, fabrication, supply, packing, forwarding, transport to site, unloading, storage, all risk coverage, erection including associated site fabrication works & commissioning, certification of system and any other cost for proper and complete execution of the CONTRACT.

- 14.2 CONTRACT prices shall also include all travelling expenses, living expenses, salaries, overtime, benefit and any other compensation for supervisors, skilled, semiskilled workmen, watch and ward staff, labours and other staff employed by the tenderer, cost of tools, tackles and cranes required for erection and other consumable material required, and all taxes, duties, and levies as applicable on the date of submission of bid.
- 14.3 Price shall be firm & fixed.
- 14.4 The tenderer shall quote the prices as per the price bid format (i.e., as per Annexure – 2) in the E-procurement only.
- 14.5 The rate quoted shall be on FOR SDSC SHAR, Sriharikota basis.
- 14.6 The taxes applicable for supply and erection & commissioning shall be indicated separately in terms of percentage in the price bid. If the offers submitted by the tenderers are silent on taxes, it will be presumed that quoted rates are inclusive of taxes & duties and no claim in this regard will be entertained later.
- 14.7 Department is exempted from Customs Duty and necessary Exemption Certificate will be provided by the Department for the imported items. This may be taken into account while quoting. A list of imported items along with quantities required for the scope of work shall be furnished along with technical bids for our evaluation.

15.0 DISCOUNTS

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

16.0 TERMS OF PAYMENTS

Our standard payment term is 100% within 30days from the date of acceptance. However if the bidder make request for any advance following payment terms shall be followed.

20 % of PO value as an advance against submission of bank guarantee for an equal amount from a reputed nationalized/scheduled bank and shall be valid till Contract completion period. A format of Bank guarantee form shall be obtained from Department.

10% after submission of technical specification and GAD

50% payment will be made after supplying the finished items to site.

20% payment after installation and commissioning lift elements at site against PBG (10% of P.O) for two years of guarantee period.

- Wherever advance payment is requested, Bank Guarantee from any Nationalized Bank/Scheduled Bank should be furnished. In case of advance payments, if the vendor/supplier is not supplying the material within the delivery schedule, interest will be levied as per the Marginal Cost of Lending Rate (MCLR) of SBI plus 2% penal interest.
- Interest will be loaded for advance payments/stage payments as per the MCLR of SBI and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

17.0 PERFORMANCE BANK GUARANTEE(PBG)

- 17.1 The tenderer shall guarantee for the performance of the system/workman ship by providing bank guarantee from a Nationalized / Scheduled Bank in favor of the Department for an amount equivalent to 10 % (ten percent) of the total value of this contract valid till the completion of warranty period plus 60 days.
- 17.2 The performance bank guarantee shall be submitted by the tenderer with in fifteen days from the date of accepting the material as per the contract. The format for the performance bank guarantee shall be obtained from the Department.

18.0 DELIVERY SCHEDULE

Bidders are requested to adhere to the schedules given below. The lift system as per the specifications of the contract shall be delivered within **10 months** from the date of release of LOI/Purchase Order, including the site erection & commissioning and acceptance by the Department.

Tenderer shall follow the following schedule for executing the contract:

Sl. No	Work involved	Time duration	Time line	Compliance (YES/NO)
01	Release of P.O	--	T0	
02	Release of technical document, GAD & QAP	1 months	T0+1month	
03	Supply of items to SDSC SHAR site	7 months	T0+8month	
04	Dismantling of existing lift and installation & commissioning	2 months	T0+10month	

Note: -

1. After arranging all items, the tenderer has to inform the readiness for pre-delivery inspection at least 10 days in advance for enabling us to arrange inspection.
2. The installation works shall be carried out based on the slot provided by the department as per launch schedule.

19.0 LIQUIDATED DAMAGES

In the event of the tenderer 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 tenderer as liquidated damages, a sum @ **0.5** percentage per week for the undelivered portion of the total contract price of equipment or work. The Total liquidated damages shall not exceed the **10.0** percentage of the total Contract price.

20.0 DISCLOSURE AND USE OF INFORMATION

- 23.1 If the documents supplied by the SDSC SHAR are marked '**restricted use**', the tenderer shall take all necessary steps to ensure the same.
- 23.2 The tenderer 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.

23.3 No publicity of any kind whatsoever regarding this work shall be given without prior clearance from SDSC SHAR.

21.0 SUSPENSION:

Department may notify the tenderer 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. The tenderer there upon shall suspend the performance of such obligations until ordered in writing to resume performance of Contract by Department.

22.0 CANCELLATION

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 tenderer 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-The tenderer.

23.0 ARBITRATION:

In the event of any dispute or difference arising under these terms & conditions or any condition contained in the Purchase Order or in connection with this Contract. (except as to any matter 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 of some other person appointed by him, and the dispute further processed in terms of the Arbitration & Conciliation Act, 1996. There will be no objection that the arbitrator is a Government Servant that he had to deal with matter which the Contract relates to or that in the course of his duties as Government Servant has expressed views on all or any of the matters in dispute or difference. The award of the arbitrator shall be final and binding on the parties of this Contract.

If the arbitrator is 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 for 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.

If the arbitrator is a person appointed by the Head of the Purchase Office – In the event of his denying or neglecting or refusing to act, or resigning or being unable to act, for any reason, 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 arbitrator subject, as aforesaid, to the Arbitration & Conciliation Act, 1996, and the rules thereunder and any statutory modifications thereof for the time being in force shall be deemed to apply to the arbitration proceeding under the clause. The Arbitrator shall have the power to extend with the consent of the Purchaser and the Contractor the time for making and publishing the award. The venue of arbitration shall be the place as the Purchaser in his absolute discretion may determine. Work under the Contract shall, if reasonably possible, continue during Arbitration Proceedings.

Incase of Imported Stores, all disputes arising in connection with this Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules. The Contract shall be interpreted, construed and governed by the laws of India.

SECTION -B

SCOPE OF WORK

Introduction:

Bubble lift was installed at rear side of Umbilical Tower (UT) of Second Launch Pad (SLP) in the year of 2013 as a redundant lift for the existing inside lift. Since the lift is located outside UT, 20m away from the vehicle and was not considered to be used during vehicle propellant filling, it was made non flame proof type.

Since, there is a need to use this lift after propellant filling, it is proposed to convert the lift from normal lift to flame proof type Zone-1,Gr-IIC compatible, T4 class lift. In this regard, it is proposed to retain all the mechanical components of lift like guides, weight frame, filler weight etc. and change the electrical & electronic components suitably to convert it to flame proof type without affecting its basic functionality. It is planned to use this lift for crew entry to launch pad for Gaganyaan Project. During this requirement, it is planned to bypass all the levels of lift apart from entry at EL 3.5m and exit level at EL 42.9m. In normal operations, the lift should serve all other elevations too. Apart from converting the lift from normal (non flameproof lift) to flame proof type lift, it is planned to make the car vapor tight as much as possible to avoid entry of contaminated air into the lift. The detailed technical specification and scope of work are given below.

2.0 Specification of the existing lift:

- ❖ Capacity of lift: 1088Kg
- ❖ Size: 1.6mX2.1mX2.5m (height)
- ❖ No. of landing: 16 landings at EL 3.5(bottom landing) and 62m top landing. The landing is provided in every 4m elevation matching to UT floor levels.
- ❖ Machine room: At EL 67m. The controller unit and ARD unit is kept inside machine room apart from drive unit.
- ❖ Control: Selective-collective automatic control with or without attendant.
- ❖ Buffer: 02 nos. of buffer each for car and counter weight with limit switches
- ❖ Signal: Call buttons with lights at all floor levels. Car position indicator provided inside car and at all floor levels.
- ❖ Speed: 1m/sec

- ❖ Motor duty: Non flame proof, Continuous duty class, 24hrs per day, temperature class T4.
- ❖ Drive: VVVF drive.
- ❖ Door type: Automatic, two panels center opening, horizontally sliding type.
- ❖ Electrical fittings: All the electrical components/fittings are non-flame type but kept inside the enclosure conforming to IP-55 class.
- ❖ Safety devices:
 - ✓ Over speed governor for car and counter weight
 - ✓ Fire alarm inside the car
 - ✓ Telephone
 - ✓ Door sensor incase of obstruction by any object
 - ✓ Automatic rescue device (ARD)
 - ✓ Over load sensing device
 - ✓ Manual lowering of lift incase of power failure
 - ✓ Manual movement of car by a wheel coupled to motor shaft.
 - ✓ *No emergency stop available (this feature to be activated)*

2.1 Plan of action to convert existing non flame proof lift to flame proof type:

Mechanical/structural elements:

- ❖ The structural elements like
 - ✓ Guide rail & Guide brackets with fasteners for Car & Cwt
 - ✓ M/c beam assembly
 - ✓ Buffer assembly
 - ✓ Car floor assembly
 - ✓ Vertical & Horizontal sling assembly
 - ✓ Cwt frame with diverter
 - ✓ Fillers

Will be retained as it. The tenderer has to consider this while quoting for conversion of the lift. For conversion, the tenderer has to consider the dimensions of existing lift well and changing of existing structural elements will not be allowed except the location specified by the department.

Dismantling of existing lift, machine room equipment, car equipment, and packing of removed items is in scope of the tenderer. The dismantled elements of lift will be property of SDSC SHAR only.

- ❖ As part of the Gaganyaan mission requirement, it is planned to create a new landing at 42.9m elevation without affecting the 46m landing. The structural modifications required for fixing the landing door at 42.9m will be carried out by department based on the tenderer clearance and the tenderer shall fix the required interfaces modified structural elements.
- ❖ The lift shall be made vapour tight by closing all the gaps/by the minimizing the clearances to maximum extent and also to create positive pressure inside cabin, flameproof blower of 800 CFM shall be provided.

Note: The tenderer is requested to visit site for clear understanding of the scope of work.

Electrical & electronics elements:

All the electrical and electronic items like drive motor with brake unit, controller unit, all signal related elements, cabin fan & light, shaft wiring cables, landing door assembly and car door assembly, governors, buffers etc. will be changed to suitable for flame proof Gr-IIC, Zone-1, T4 class environment. The sensors shall be planned for intrinsic safe with full EX/ATEX certified sensors suitable for hazardous petrochemical & gas industries.

Detail scope of work:

The scope of work includes modification of existing lift by changing all the electrical elements to flame proof Gr-IIC compatible environment which calls for design, engineering, manufacturing/procuring, assembly of the elements at site, testing/commissioning.

To avoid vapor entry to the lift, it is planned to make the lift vapor tight as much as possible by providing suitable sealing materials in the car door and closing the unwanted openings.

Following are the system wise components which need to be changed from non-flame proof type to flame proof type.

❖ Machine room:

- ✓ Drive motor with brake unit along with gear box and sheave shall be changed. Feasibility of utilizing existing gearbox with new motor also shall be studied. The electric motor shall confirm to Flame proof Zone-1, Gr-IIC, T4 class & full ex type.
- ✓ Controller unit: New IP54 controller unit shall be supplied and installed at CPB building behind UT at 100m location. The length of the cable from CPB Panel Room to machine room will be around 250mtrs.
- ✓ E-link system shall be configured to monitor & logging of data related to lift health condition at 10Km away from launch pad. Cable from launch pad and computers is in scope of SDSC SHAR.
- ✓ Selector switch and programmed type selection switch shall be provided at Panel Room Controller to convert lift for Gaganyaan use and normal use or vice versa. Also display indicating the mode of operation should come in the car operating panel.
- ✓ CCTV camera Cat-6 cable shall be incorporated for installation of CCTV. However CCTV camera will be provided by department
- ✓ **ARD/ERD unit:** ARD unit shall be kept inside CPB panel room near to controller. The Voltage drop shall be considered in ARD battery size and rating while designing the ARD. It is also to be noted that, as during Gaganyaan mission, all intermediate levels will be bypassed, in case of power failure during upward motion, the lift should stop at final/top landing location only and during down movement it should stop at ground level only. The required logic for same shall be incorporated in the controller when the lift is running in Gaganyaan mode.
- ✓ Over speed governor: The Electrical Sensors/interfaces of over speed governor (OSG) unit shall be changed to flame proof Gr-IIC type/Intrinsic safe full EX/ATEX certified.
- ✓ For all the electrical components, full Ex proof (explosion proof) certificate shall be submitted.

❖ Car/ Cabin:

- ✓ To make the car body vapor tight, it is planned to replace the car panel, false ceiling, car roof. Necessary cut out will be provided for blower fixing.
- ✓ Required rubber/compressed felt sealing shall be provided in the door sliding and closing area to make the lift vapor tight.
- ✓ Clearances between the car door to car body shall be as minimum as possible by controlling the fabrication dimensions to avoid major gap for vapor entry.
- ✓ All the shaft & machine room electrical component shall be flame proof/Ex proof Gr-IIC compatible, Zone-1 & T4 class compatible enclosure instead of normal enclosure. Sample of a flame proof enclosure shall be tested in front of department engineer.
- ✓ Door should be operated through flame proof electric motor only. No battery operation is not allowed.
- ✓ Light fittings inside Car with On/OFF control of LED Type conforming flame proof Gr-IIC, Zone-1.
- ✓ One number of Emergency Light with independent control
- ✓ Load cell, door sensor, magnetic floor level switch etc. shall be converted to flame proof compatible for Gr-IIC type & intrinsic safe. .
- ✓ All landing door and car door including electrical components shall be modified to flame proof Gr-IIC compatible.
- ✓ Call button inside car and landing areas, display units, car position indicators shall be changed to flame proof Gr-IIC type.
- ✓ Telephone inside shall be changed to flame proof Gr-IIC standard.
- ✓ Over load sensors, door closing sensors shall be changed to flame proof type.
- ✓ All the field instruments & control elements/its enclosure shall confirm to IP 67 type, apart from flame proof compatible.
- ✓ Positive pressure inside the lift to be ensured by providing around 800CFM flameproof fan/blower on the top of the car/cabin.

❖ Pit area:

- ✓ The electrical limit switches of buffers for car and counterweight shall be changed to flame proof Gr-IIC type
- ✓ All the emergency switches available inside the pit shall be changed to flame proof Gr-IIC type

❖ Additional new requirement:

Apart from replacing the existing electrical & electronics component from normal type, following additional requirement need to be considered while designing the system:

- ✓ Local (non Gaganyaan mode) & Gaganyaan mode selector switch shall be installed in controller and in E-link to change over from normal mode to Gaganyaan mode and vice versa.
- ✓ In the Gaganyaan mode:
 - 1) Elevator is expected to run from entry level to top 42.9 unless there is no safety related failure
 - 2) Dual or redundant call button for ground floor & 42.9m at landing level and inside car operating panel (COP) shall be provided to have the redundancy.
 - 3) In case of system failure or any non-critical safety failure, backup system shall take over the control automatically and move the elevator to the top landing(42.9m) with reduced speed, only one trip (Bottom to top & Top to bottom) will be allowed during Gaganyaan mode.
 - 3) In case of any critical safety failure, elevator shall not move and further run can be prevented.
 - 4) In case of power failure is detected, system shall changeover within (5 sec) and operate using the UPS power provided by the SHAR. Supplier shall provide suitable changeover system.
- ✓ 5A & 15A flame proof power sockets shall be provided on car top by supplier.

- ✓ Remote E-link system for controller health monitoring and data logging at 10Km away (zero point) from the launch pad before T-10 hrs. The cable connectivity from zero point to launch pad, provision of console/systems, IP address are in scope of SDSC SHAR.
- ✓ Emergency stop button shall be available inside car even though it is a bubble lift.

❖ **Other important information:**

- ✓ The total modification of lift is in the scope of party, any minor items not included in the above list need to consider while designing the system.
- ✓ In the process of converting the lift from non-flame proof to flame proof type, there should not be any deletion/compromise in the safety system inside the lift.
- ✓ All the installation works which needs any site fabrication works is in the scope of party.
- ✓ The shaft lighting and its related cables will be changed to flame proof type by Department, SDSC SHAR

SECTION –C

TECHNICAL SPECIFICATIONS

1.0 General technical specification/requirement for lift:

- The lift shall be suitable for arduous duty conditions (S1 duty class) and shall be suitable for continuous 24 hrs. round the clock operations.
- The maximum lifting capacity of the lift (payload) as specified at the specified speed of travel shall be ensured after converting the lift to flame proof.
- Trouble free performances of the lift incorporating the operational, controlling and safety requirement, as specified shall be guaranteed.
- The supplier, under this specification, shall assume all the responsibility in proper design and operation of each and every component of the lift and the lift as a whole.

2.0 Certification requirement:

Following certification/auditing works need to be carried out by supplier for making the lift flame proof:

1. Assessment/auditing of present condition of lift and its safety system by Quality Department of the supplier and SDSC SHAR.
2. CCOE / PESO Certificates/equivalent certificate shall be provided for the EX-Proof IIC components sourced from India, Manufacturer test Certificates can be provided for the EX-Proof IIC components imported from other country complying EN codes and same will be reviewed by SDSC SHAR. All the components should meet the specific standards required.
3. Certificates indicating the factor of safety (F.O.S) available in all the mechanical systems like wire ropes, pulley systems, shaft, sheave, car body etc. shall be given by supplier.

3.0 Relevant standards:

- IS1860-1968: Code of practice for installation, operation and maintenance of electric passenger and good lift.
- IS2365-1977: Steel wire suspension ropes for lifts and hoists
- IS3534-1966: Outline dimensions for electrical lifts.
- IS4666-1968: Electric passenger and good lifts

- IS 7759-1975: Specification for lift door locking device
- IS8216-1976: Guide for inspection of lift wire ropes.
- IS5572-1978: Classification of hazardous area for electrical installations.
- IS8239-1976: Classification of maximum surface temperatures of electrical equipment for use in explosive atmospheres.
- IS4289-1979: Specification for lift cables(ZHLS) Zero Halogen Low Smoke
- IS 14665: 2001 for Passenger Applications
- Flameproof Enclosures for electrical apparatus: IS:2148-2006
- IEC 60079-11 for intrinsic safety of the items.
- Classifications of Hazardous Area for electrical installations: IS: 5572-2009
- Guide for selection of electrical equipment for Hazardous area - IS: 5571-2009
- Classification of maximum temperature of electrical equipment for use in explosive atmosphere IS : 8239 (Latest revision)
- EN codes (equivalent IS codes) for imported items shall be followed.

4.0 Testing and inspection of the system at manufacturers works(pre delivery inspection):

1. The manufacturer shall conduct all test required to ensure that the equipment furnished shall confirm to the requirements of this specification and applicable codes.
2. Electric motor with or without drive system, OSG, controller shall be tested as part of pre delivery inspection and relevant manufacturer test certificates shall be provided for department review.
3. Other certificates for the controller, equipment, push button stations shall be provided to the department.
4. Manufacturer shall inform the department incase of major shop tests, sufficiently in advance so that the representative of department shall witness the test.

5.0 Acceptance tests at site:

- The supplier shall inform sufficiently in advance regarding readiness of acceptance tests and commissioning.
- The tests shall be carried out in presence of SDSC SHAR representatives.
- After erection of all the components, visual inspection will be jointly made by supplier and the SDSC SHAR. The defects and shortcomings found during visual inspection shall be rectified by the contractor.
- Tests to determine the insulation resistance between power and control lines and the earth.
- Tests to determine the proper functioning of motor, brake, control equipment, door locking devices and limit switches and control system.
- Test to determine that the lift car raises and lowers the rated load.
- A static load testing with 125% of rated load as per IS1860-1980 to check that the brake will sustain the car.
- All other test on electrical systems as per IS4666-1980 clause 25.
- Test to determine that the car achieves the rated speed.
- Test to determine that the safety gear stops the lift with rated load.
- Demonstration of all safety features provided in the lift.
- Any other test felt necessary by the department to ensure proper functioning of the lift.

Prior to commencement of test, detail procedure of the tests shall be finalized in consultation with department.

6.0 Drawings, data and manuals

- i. The supplier, shall furnish following data/drawing along with the tender/offer.
 - Layout drawing of lift with controller
 - Layout drawing indicating various equipment.
 - Electrical schematic showing terminal points of supply.
 - Write -up on various components

- Data sheets and catalogues of components.
 - Time required for supply, erection and testing of modified lift.
- ii. The tenderer shall furnish the following data/drawing within 4 weeks from the date of award of contract.
- Complete schematic and wiring diagram of power & control circuits.
 - Drawing on control panel, car operating panel, car position indicator in car & in all levels, push button stations. etc
 - Time bar chart indicating drawing, submission schedule, manufacturing schedule, erection & testing of the lift.
 - Quality assurance plan for fabrication, erection and commission of lift.
 - Other drawings and data necessary.

7.0 Guarantee of the lift

After completion of erection, testing and acceptance of the modified lift ,the supplier shall guarantee the lift to meet the specification requirements, against manufacturing/design defects, poor workmanship etc. for a period of two years (24 months) from the date of acceptance of the lift by the department. Any spares required for maintenance of lift in warranty period is in Scope of Supplier.

7.1 Standby duty in Guarantee period: Standby duty for a period of 7 days (minimum) for Gaganyaan mission in the guarantee period shall be carried out by the supplier.

8.0 Quality system and inspection.

9.1 GENERAL

9.1.1 Inspection will be carried out at the works of the Tenderer during fabrication/assembly and on final product to ensure conformity of the same with the acceptable criteria of technical specifications, approved drawings and indicated standards.

9.1.2 This specification is in addition to the provisions laid down in Purchaser's General Condition of Contract (GCC) and special instructions to tenderer, if any.

9.2 QUALITY SYSTEM REQUIREMENTS.

9.2.1 The tenderer must recognize the importance of quality and follow the defined quality programme in all manufacturing and quality control activities of the product. The Tenderer will define and implement the tasks and controls that will provide needed assurance in case manufacturing of product is sub-contracted either partly or fully and / or for the procured components of the product.

Purchaser reserves the right to verify the quality programme and entire product characteristics to assure the intended and specified quality of the product.

9.2.2 FMECA & reliability study for overall system considering all failure cases shall be carried out by supplier and same shall be submitted for department review.

9.3 QUALITY ASSURANCE PLAN (QAP)

9.3.1 The tenderer will furnish the Quality Assurance Plan (QAP) for the respective structural unit / component after finalization of billing schedule for Purchaser's approval at during clearance of GAD to start the manufacturing.

9.3.2 The tenderer will indicate the procurement source and furnish to Department during discussions on QAP, copies of Purchaser Order, Sub-Purchaser Order, data sheets as backup reference materials for scrutiny & finalization of QAP.

9.3.3 Detailed QAP will be prepared by the tenderer based on the general plan given by Department to avoid any complication later.

9.3.4 QAP will clearly indicate the followings through use of codes in the appropriate columns:

9.3.4.1 Range of inspection & tests to be done by the tenderer during fabrication of structures from raw materials to finishing stage.

9.3.4.2 Suggestive check / hold points for Department's inspection and witnessing of tests during the fabrication and final product inspection.

9.3.4.3 Details of test certificates, internal inspection reports and calibration certificates to be furnished by the tenderer to Department.

9.3.4.4 Inspection documents to be furnished by the tenderer to Department for reference during inspection.

9.3.5 While submitting the QAP, the tenderer will indicate the acceptance criteria regarding check parameters of each component. Acceptance criteria will have

reference of documents viz., Purchaser Order, Sub-Purchaser Order, T.S., Approved fabrication drawings. Wherever the acceptance criterion is not available in above documents, the same will be specified with traceability to national / international specifications.

9.4 TEST CERTIFICATES AND DOCUMENTS.

9.4.1 For each of the items being fabricated, the following test certificates and documents, as applicable, in requisite copies including original will be submitted to Department. All test certificates must be endorsed by the Tenderer with linkage to project, Purchaser order and acceptance criteria.

9.4.1.1 Raw materials identification & physical and chemical test certificates for all materials used in fabrication of the component

9.4.1.2 WPS, PQR & WPQ documents as per applicable code.

9.4.1.3 Details of stage wise inspection & rectification records for fabricated items and machined articles.

9.4.1.4 Surface preparation and painting certificates.

9.4.1.5 Certificates from competent authority for the items coming under statutory regulations.

9.4.2 The inspection agency will have the right to be present and witness all tests being carried out by the Tenderer at their own laboratory or approved laboratories. Also, the Inspection Agency will reserve the right to call for confirmatory test on samples, at his discretion.

9.5 Certification:

After installation of lift same shall be certified by a third party who is experienced in realization/consultancy of flame proof lift by either Govt. approved authority/public/private companies apart from supplier internal quality division certification. The process of certification shall be done inline with the human rating certification guidelines provided by ISRO. The finalization of third party is in scope of SDSC SHAR and executing the order, sharing of drawings and specification is in the scope of supplier.

INTERNAL INSPECTION BY TENDERER

- 9.5.1 Inspection and tests will be carried out by the Tenderer in accordance with approved drawings, Technical specification, Purchaser Order, and approved QAP. The tenderer will maintain records of each inspection and test carried out and signed documents will be submitted to Department for verification.
- 9.5.2 The tenderer will ensure use of appropriate calibrated measuring equipment during their internal inspection, as well as, make available the same during Department's inspection and test. Also, they will make necessary arrangement for access and use of Department owned measuring equipment during inspection.
- 9.5.3 The tenderer will identify all the inspected component / raw materials & will maintain the record of status of inspection viz. inspected & found acceptable, require rectification / rework, rejected etc.
- 9.5.4 The tenderer will establish and maintain procedures to ensure that product that does not confirm to specified requirements, is prevented from inadvertent use or installation. The description of non-conformity that has been accepted subsequently by Department by concession and / or of repairs will be recorded.
- 9.5.5 Repaired and reworked product will be offered for re-inspection to Department along with records of corrective action taken.
- 9.5.6 The tenderer will not dispatch any equipment till receipt of dispatch clearance from Department.

9.6 METHOD OF UNDERTAKING INSPECTION & TESTING BY PURCHASER

9.6.1 Agency Responsible: -

Inspection / Waiver of component will be undertaken by department depending upon the location of manufacturers.

9.6.2 Method of Issuing Inspection Call to Department:

9.6.2.1 Inspection call will be floated to Purchaser with ten days clear margin, enclosing all documents like test certificates, Internal inspection reports, Purchase order, Sub-purchase order, T.S., Approved QAP, approved GA drawings / data sheets and fabrication drawings with a copy of call letter to purchaser. Inspection calls without above documents will be ignored.

9.6.2.2 Department shall have all rights to ask for replacement or accept with rectification starting from raw material to finished component/sub-assembly if the requirements/ specifications are not complied. All the rectification/ replacement works thus derived from each inspection shall be carried out without any additional claim.

9.6.2.3 The supplier should prepare all the inspection report like dimensional report, DP test report, assembly report, functional check report and produce to department for review and clearance for next process.

9.7 STAMPING AND ISSUE OF INSPECTION DOCUMENTS.

9.7.1 Inspection Memo: -

For stage inspection & for rejected items / items which do not conform to Technical Specification in one or more quality characteristics requiring rectification / rework, Inspection Memo will be issued in standard form indicating therein the details of observation & remarks. All the non-conformities with respect to specification of the product will be indicated in the Inspection Memo for further control by Fabricator.

9.7.2 Inspection Certificate: -

On satisfactory completion of final inspection & testing, all accepted plant & equipment will be stamped suitably and Inspection Certificate in standard form will be issued by the Inspection Engineer for the accepted items.

9.7.3 Inspection Waiver Certificate: -

For the waiver category of items identified in the approved QAP, Purchaser will issue Inspection Waiver Certificate after scrutiny of Tenderer's Internal Inspection Report, Test Certificates and other Documents as identified in QAP.

SECTION -D

ANNEXURES

INFORMATIONS TO BE FURNISHED WITH THE TENDERER (Annexure-1)**SATISH DHAWAN SPACE CENTRE SHAR**

NAME OF THE WORK : _____

NAME OF BIDDER : _____

ANNEXURE-1(Technical specification)

Sl. no	Technical parameter (to be followed)	Response by Supplier (Yes/No)
01	Supplier has visited to UT/SLP for clear understanding of the requirement	
02	Creation of new landing at EL 42.9m without affecting the landing at 46m. All the structural modification will be carried out by department/SDSC SHAR.	
03	Must use the existing components like Guide rail & Guide brackets with fasteners for Car & Cwt M/c beam assembly Buffer assembly Car floor assembly Vertical & Horizontal sling assembly Cwt frame with diverter Fillers	
04	Manual & auto (system programmed) selector switch shall be installed in controller and in E-link to change over from normal mode to Gaganyaan mode and vice versa.	
05	New controller shall be positioned at the electrical panel room which is 250m away from launch pad.	
06	Dual/redundant call button at ground level and 42.9 in landing and car call button	
07	In Gaganyaan mode, in case of controller failure/minor safety circuit failure, the lift should move upto landing point in both directions (minimum one full trip). Arrangement of redundant power source for drive is in the scope of department.	
08	ARD shall be shifted to CPB building.	

	For Gaganyaan requirement: ARD shall function up to 42.9m in up direction and 3.5m in down direction as intermediate landings are bypassed.	
09	Provision of CAT 6 Cable for CCTV connection	
10	E-link system for controller health monitoring and data logging at 10Km away from the launch pad before T-10 hrs	
11	Maximum ventilation opening inside car cabin shall be restricted to 240cm ² area. installation of sterilization system for Gaganyaan requirement by dept.	
12	Flame proof fan of 800CFM shall be considered for creating the positive pressure of 8mm of H ₂ O	
13	Flame Proof IIC type power socket of 5A and 15A	
14	Provision for emergency button inside car should be provided	
15	Ex proof type LED light fittings shall be installed inside car	
16	All the electrical items shall be changed to Flame proof type, ZONE-1, GR-IIC, T4 class. for outdoor units.	
17	All the field control cards shall be kept in flame proof Gr-IIC compatible junction boxes.	
18	All limit switches, sensor etc. shall be changed to flame proof & intrinsic safe. Full Ex/ATEX certified.	
19	Call buttons and display unit shall be changed to flame proof	
20	All the cables for lift shall be changed to ZHLS type cable Armored Cables for Power and Control up to UT bottom (Inside cable Trench Area).	
21	Supply of new rope, new gearbox and new car panel	
22	Landing door and car door changing for making vapor tight. Critical dimensions in the sliding zone of doors. Provision for providing sealing between doors to reduce vapor entry.	
23	800CFM flameproof Gr-IIC fan/blower on the top of the car/cabin	
24	Compliance to all relevant standards and issue of test certificate as per standards	
25	Issue of design report, part drawing, manufacturing drawing & assembly/erection drawing	
26	Components level inspection, assemble stage inspection and final commissioning inspection shall be arranged by Supplier	
27	After installation the lift shall be tested for over load testing	
28	Submission of GAD, documents, test report , certificates for components etc.	
29	Standby duty by supplier during Gaganyaan mission(max 3 times) in the warranty period	

30	FMECA & reliability study shall be carried out	
31	Certification of lift by internal quality department of Supplier	
32	Third party certification either by govt./public/private companies in line with human rating certification process of ISRO is in the scope of supplier. Identified of party will be done by SDS SHAR	

EXCEPTIONS AND DEVIATIONS (FORM-J)

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

SL. NO	Reference in Specification		Dept. Specification	Offered Specification	DEVIATION
	PAGE NO	CLAUSE NO			

NOTE :

Only deviations are to be written in this FORM-J.

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 as per this Proforma (FORM-J) and written elsewhere in the Proposal document shall not be recognized and the same is treated as null and void.

Any willful 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 OF BIDDER)

Annexure -2

SATISH DHAWAN SPACE CENTRE SHAR**Schedule of Price****Conversion of existing lift to flame proof lift**

S.No	Description	Units	Qty	Cost	
				Unit	Total
1.	CONVERSION OF EXISTING NON FLAMEPROOF BUBBLE LIFT TO FLAME PROOF GROUP-IIC COMPATIBLE LIFT AT UMBILICAL TOWER OF SECOND LAUNCH PAD (SLP) as per the enclosed RFP document	Lump sum	1		
2.	GST @ 5%				
3.	Sub Total -1 (sum of 1 to 2)				

Terms & Conditions:

- The rate quoted shall be on FOR DESTINATION BASIS i.e., FOR DEPARTMENT, Sriharikota basis. Even unloading of the material at our site shall be your responsibility at your cost. Thus transportation of material from your works to DEPARTMENT and unloading at our site shall be the responsibility of tenderers.
- The taxes applicable for supply and erection/installation shall be indicated separately in terms of percentage in the unpriced techno commercial offer as well as price bid. If the offers submitted by the tenderers are silent on taxes, it will be presumed that quoted rates are inclusive of taxes & duties and no claim in this regard will be entertained later.
- The tender will not be split and the contract will be awarded on overall L1 (Lowest 1) basis, who is qualifying in all the terms & conditions of the tender.

Signature of Authorised Person with Seal

Annexure -3

CHECK LIST

S.No	Description	Response by Supplier
1.	The detailed scope of work and technical specifications are under stood and price was quoted accordingly.	Yes / No
2.	EMD attached	Yes / No
3.	Validity of Offer is 4 months	Yes / No
4.	EDEC shall be provided the by Dept. list of EDEC items are provided.	Yes / No
5.	CDEC shall be provided by the Dept. List of imported items with quantities are provided.	Yes / No
6.	GST at the prevailing rates. If not mentioned it will be assumed that the price quoted are inclusive of taxes	Yes / No
7.	Delivery Schedule is 10 months with milestones	Yes / No
8.	Accepted the Department Payment Terms	Yes / No
9.	Warranty for the fully commissioned and accepted system is 24 months	Yes / No
10.	10 % of the Order Value shall be submitted as Security Deposit for the performance of the contract. Valid till acceptance of the system plus 60 days.	Yes / No
11.	10 % of the Order Value shall be submitted as Performance Bank Guarantee. Valid till completion of the warranty period plus 60 days.	Yes / No
12.	Liquidated Damages (Ref. Clause 24 of Section A.) acceptable	Yes / No
13.	Latest income tax certificate is enclosed	Yes / No
14.	Registration certificate of the company is enclosed	Yes / No

Signature of Authorized Person with Seal

Annexure-4**LIST OF TENDER DRAWINGS ENCLOSED**

Sl.No.	Description	Dwg. No.	Sheets
1	CONVERSION OF EXISTING NON FLAMEPROOF BUBBLE LIFT TO FLAME PROOF GROUP-IIC COMPATIBLE LIFT AT UMBILICAL TOWER OF SECOND LAUNCH PAD (SLP)	GA-BL-2019- 01 & 02	2



Satish Dhawan Space Center SHAR

Welcome, Materials Master (isro)

31 August 2017,
17:16:08 IST

[MAIN VIEW](#)

[HELP](#)

Preview For STANDARD TERMS AND CONDITIONS

Page Destination: Tender Header **Format Type :** Normal

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GOVERNMENT OF INDIA

DEPARTMENT OF SPACE

SATISH DHAWAN SPACE CENTRE

PURCHASE DIVISION

Tele No.08623-225023/225174/225127

Fax No.08623-225170/22-5028

e-Mail ID : hps@shar.gov.in, hasan@shar.gov.in, sselvan@shar.gov.in

STANDARD TERMS & CONDITIONS

1.OFFERS SHALL BE SENT ONLINE ONLY USING STANDARD DIGITAL SIGNATURE CERTIFICATE OF CLASS III WITH ENCRYPTION / DECRYPTION. THE TENDERS AUTHORISED ONLINE ON OR BEFORE THE OPEN AUTHORISATION DATE AND TIME ONLY WILL BE CONSIDERED AS VALID TENDERS EVEN THOUGH THE BIDS ARE SUBMITTED ONLINE.

2.THE TENDERER MUST AUTHORISE BID OPENING WITHIN THE TIME STIPULATED IN THE SCHEDULE BY SDSC SHAR. OTHERWISE THE ONLINE BID SUBMITTED WILL NOT BE CONSIDERED FOR EVALUATION. PHYSICAL COPY WILL NOT BE CONSIDERED EVEN THOUGH IT IS RECEIVED BEFORE THE BID SUBMISSION DATE.

In case of two-part tenders, parties shall submit their offers as follows:-

1) Part-I – Techno-commercial Bid

(No price details shall be mentioned in this bid and shall not upload the details of price along with the techno-commercial bid)

2) Part-II – Price Bid

In view of Two Part Tender, the Offers submitted contrary to above instructions will be summarily rejected.

3.In case, the tenderer is not interested to participate in the tender, the tenderer shall submit regret letter giving reasons, failing which future enquiries will not be sent.

4.**Offer Validity:** The validity of the offers / tenders should be 90 days (in case of single part tender) and 120 days (in case two part tender) from the date of opening of the tenders. Tenders with offer validity less than the period mentioned above, will not be considered for evaluation.

5.**GST** - GST and/or other duties/levies legally leviable and intended to be claimed should be distinctly shown separately in the tender. GST details are given below

GSTIN: 37AAAGS1366J1Z1

LEGAL NAME : SATISH DHAWAN SPACE CENTRE SHAR

VALIDITY FROM:29/08/2017

TYPE OF REGISTRATION:REGULAR

6.**Customs Duty** - SDSC-SHAR is eligible for 100% Customs Duty exemption as per Notification No. 050/2017 539 (b) Dt: 30.06.2017. This may be taken into account while quoting for import items, if any.

In case tenderers offering items considering customs duty exemption, they should also indicate the bill of materials and price, separately, with Customs Duty component and terms and conditions thereto.

8.**Advance Payment** - Wherever advance payment is requested, Bank Guarantee from any Nationalized Bank/Scheduled Bank should be furnished. In case of advance payments, if the party is not supplying the material within the delivery schedule, interest will be levied as per the Prime Lending Rate of RBI plus 2% penal interest.

Interest will be loaded for advance payments/stage payments as per the prime lending rate of RBI and will be added to the landed cost for comparison purpose. In case of different milestone payments submitted by the parties, a standard and transparent methodology like NPV will be adopted for evaluating the offers.

9.**Liquidated Damages** - In all cases, delivery schedule indicated in the Purchase Order/Contract is the essence of the contract and if the party fails to deliver the material within the delivery schedule, Liquidated Damages will be levied @ 0.5% per week or part thereof subject to a maximum of 10% of total order value.

10.**Performance Bank Guarantee** - Performance Bank Guarantee for 10% of the order value should be furnished in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till warranty period plus sixty days as claim period.

11. **Security Deposit** – Security Deposit for 10% of the order value is mandatory, if the ordered value is Rs.5.00 lakhs and above. Party shall furnish the Security Deposit in the form of Bank Guarantee from nationalized/scheduled bank or by Demand Draft valid till completion of the contract period plus sixty days towards claim period for faithful execution of the contract.

12. **BANK GUARANTEE FOR FIM:** Supplier has to submit Bank guarantee for equal value of Free Issue of Materials (FIM) issued by the Department from Nationalised / Scheduled Bank valid till receipt and acceptance of supply and satisfactory accounting of FIM plus sixty days as claim period.

13. The delivery period mentioned in the tender enquiry, IF ANY, is with the stipulation that no credit will be given for earlier deliveries and offers with delivery beyond the period will be treated as unresponsive.

14. The Department will have the option to consider more than one source of supply and final orders will be given accordingly.

15. The bidders should note that conditional discounts would not have edge in the evaluation process of tenders.

16. Non-acceptance of any conditions wherever called for related to Guarantee/ Warranty, Performance Bank Guarantee, Security Deposit, Liquidated damages are liable for disqualification.

17. Wherever installation/ commissioning involved, the guarantee/warranty period shall reckon only from the date of installation and commissioning.

18. 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.

19. The drawings, specifications, end use etc., given by the Centre/Unit along with the tender enquiry are confidential and shall not be disclosed to any third party.

20. **SPECIAL CONDITIONS FOR SUBMITTING QUOTATIONS IN FOREIGN CURRENCY BY THE INDIAN AGENTS**

The Tenderer should submit the following documents/information while quoting:-

a) Foreign Principal's proforma invoice/quote indicating the commission payable to the Indian Agent and nature of after sales service to be rendered by the Indian Agent.

b) Copy of Agency agreement with the Foreign Principal and the Indian Agent, precise relationship between them and their mutual interest in the business.

c) Registration and item empanelment of the Indian Agent.

d) Agency Commission will be paid only Indian Currency.

e) Compliance of the tax laws by the Indian Agent.

21. **High Sea Sales**- Against High Sea Sale transactions:

a. Offers shall be on all inclusive basis including delivery upto Sriharikota at the risk and cost of the supplier. Customs Clearance is the responsibility of the supplier and at his cost and risk.

b. 100% payment will be made within 30 days after receipt and acceptance of the items at our site.

c. GST as applicable

d. Customs Duty Exemption Certificate and other relevant documents required for Customs clearance will be provided.

e. High Sea Sales Agreement furnished by the supplier in accordance with the terms and conditions of our purchase order will be signed and issued by SDSC-SHAR.

22. The following information/ documents are to be submitted wherever applicable.

1. Product Literature

2. Core banking account number of SBI, RTGS Details

3. PAN No. in quotation and invoices

4. GST Registration details.

5. In case of MSME, registration details / documents from Competent Authority.

23. **EXCLUSION OF TENDERS**

The following tenders shall be summarily rejected from the procurement process

a. Tenders received from vendors who have not qualified in terms of their registration.

b. Tenders received against publishing of a limited tender in the CPP portal.

c. Tenders of vendors who have been removed from the vendor list or banned/debarred from having business dealings.

d. Unsolicited tenders from vendors.

e. The tenders which materially depart from the requirements specified in the tender document or which contain false information.

f. The tenders which are not accompanied by the prescribed Earnest Money Deposit.

g. The tenders of vendors who have not agreed to furnish Security Deposit, Performance Bank Guarantee and Liquidated Damages.

h. The validity of the tenders is shorter than the period specified in the tender enquiry.

i. The tenders received from vendors or their agents or anyone acting on their behalf, who have promised or given to any official of the Centre/Unit/Department, a gratification in any form, or anything of value, so as to unduly influence the procurement process.

j. The tenders received from vendors, who, in the opinion of the Centre/Unit, have a conflict of interest materially affecting fair competition.

k.The tenders received from Indian agents on behalf of their foreign Principals/OEMs (in cases where the Principals/OEMs also submit their tenders simultaneously for the same item/product in the same tender).

l.In case two or more tenders are received from an Indian agent on behalf of more than one foreign Principal/OEM, in the same tender for the same item/product.

m.If a firm quotes 'NIL' charges / consideration, the bid shall be treated as un-responsive and will not be considered.