

**SARDAR VALLABHBHAI NATIONAL INSTITUTE  
OF TECHNOLOGY, SURAT – 395 007**



**TENDER DOCUMENT**

**SUPPLY OF**

**SERVO HYDRAULIC ACTUATOR ASSEMBLY AND  
ACCESSORIES**

**AT**

**STRUCTURAL DYNAMICS LABORATORY  
APPLIED MECHANICS DEPARTMENT  
S. V. NATIONAL INSTITUTE OF TECHNOLOGY  
SURAT – 395 007, GUJARAT**

**2017-18**

## **TENDER NOTICE**

**Sealed Tenders are invited for SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES at STRUCTURAL DYNAMICS Laboratory in Applied mechanics Department. The Tender details documents, technical specifications of SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES, schedule of issue, receipts of Tender documents are available on Institute website [www.svnit.ac.in](http://www.svnit.ac.in).**

**DIRECTOR**

**TENDER DOCUMENT FOR SUPPLY OF SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES AT STRUCTURAL DYNAMICS LABORATORY IN APPLIED MECHANICS DEPARTMENT AT SVNIT, SURAT**

**Tender reference no: AMD/SDL/Tender/2017-18/**

**Date: 23.02.2018**

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**Section I: PREAMBLE**

The Sardar Vallabhbhai National Institute of Technology, Ichchhantah, Surat (SVNIT, Surat) invites sealed bids from eligible bidders for Supply, Installation, Commissioning and training of laboratory personnel for use of SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES at STRUCTURAL DYNAMICS Laboratory in Applied mechanics Department as per the requirements & technical compliance, defined in the section “Schedule of Technical Requirements” in this tender document; at the terms and conditions specified in the section “General Terms & Conditions”.

- The entire tender document comprises of various sections, as listed below:
  - i. Preamble (this page)
  - ii. Schedule of Tender
  - iii. Tender Form, Covering letter
  - iv. Schedule of Technical Requirements
  - v. General Terms & Conditions
  - vi. Declaration to be honored and signed by the bidder
  - vii. Summary Sheet
- The tender form should be downloaded from the institute website; the tender fees have to be remitted with the bid. Without the tender fees being remitted, the tender will not be considered. For tender fee, the Demand Draft in favor of Director, Sardar Vallabhbhai National Institute of Technology, payable at Surat must be submitted along with tender document.
- All bids must be accompanied by a bid security as specified in the bid document and must be delivered to the above office latest by the date and time indicated.
- Bids will be opened in the presence of Bidders' representatives who may choose to attend on the specified date and time.
- In the event of the date specified for the bid receipt and opening, being declared as a closed holiday for SVNIT, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
- **The bid from the vendor who is found in fraud activity with SVNIT or on the name of SVNIT shall not be allowed for bidding and the bid from such vendor will not be accepted and will be rejected. The bid submitted in consortium with such vendor will not be considered, and if such information is found later, then the work order issued will be terminated immediately without any notice.**

## Section II : SCHEDULE OF TENDER

1. Issue of the Blank Tender Form: 23<sup>rd</sup> February 2018
2. Last date of submission of Tender at SVNIT: 16<sup>th</sup> March 2018 (before 3:00 pm)
3. Date of Opening of Technical proposal: 19<sup>th</sup> March 2018 (before 3:00 pm)
4. Date of Opening of Financial proposal: 20<sup>th</sup> March 2018 (before 3:00 pm)
5. Place of opening of bids: Office of Head  
Applied Mechanics department, SVNIT,  
Surat
6. Address for communication: Director, S V National  
Institute of Technology,  
Ichchhanath, Surat – 395007
7. Tender fee of Rs. 2,000/- (Rupees Two Thousand Only) to be remitted with tender by DD drawn in favor of “Director, SVNIT-MHRD Fund, Surat.” D. D. No. \_\_\_\_\_ Date: \_\_\_\_\_  
Name of Bank: \_\_\_\_\_  
Branch: \_\_\_\_\_
8. EMD of Rs. 54,000/- (fifty four thousand Rupees Only) to be remitted with tender by DD/FDR drawn in favor of “Director, SVNIT-MHRD Fund, Surat.” D.D. / FDR No. \_\_\_\_\_ Date: \_\_\_\_\_  
Name of Bank: \_\_\_\_\_  
Branch: \_\_\_\_\_

### Important Notes:

- **Demand Draft of EMD and Tender Fee must be separate otherwise tender will be rejected.**
- **Tender offers must be sent by Registered Post A.D./Speed Post/Hand delivery only during office hours**
- **Price in Indian Rupees at F.O.R SVNIT, Surat should be quoted for cases where the equipment's are to be imported by the party on behalf of the institute.**

**SECTION-III: TENDER FORM**

**FROM:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

To,  
The Director,  
SVNIT, Surat

Sub.: Tender for Supply of SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES at Structural dynamics Laboratory in Applied Mechanics Department at SVNIT, Surat

Sir,

With reference to above, we submit the following particulars of our Firm/Agency.

1. Name of the firm & address with direct phone numbers :
2. Name of the proprietor/chief of the firm :
3. Registration number and date :
4. Date of establishment :

**AUTHORIZED SIGNATURE WITH STAMP**

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**Signature of the Binder with Stamp:**

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## **Section IV: Schedule of Technical Requirements**

Technical Specifications for SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES:-

### **Technical specifications for servo hydraulic dynamic actuator and accessories:-**

#### **1) Actuator**

- **Type:** Double acting double ended actuator (both end provided with swivel)
- **Compression Capacity:** Static and dynamic = 100 kN
- **Tension Capacity:** Static and dynamic = 100 kN
- **Total Stroke:** +/- 125 mm or 250 mm
- **Minimum Frequency capacity:** 0.01 Hz
- **Maximum Frequency capacity:** 50 Hz
- **Maximum working pressure:** 210 kg / cm<sup>2</sup>
- Performance curves to be provided for total stroke vs. working frequency rates and forces
- The actuator must be servo valve controlled with around 40 LPM or suitable capacity
- Actuator mounting kit of appropriate type to be provided for mounting of actuator on loading frame with capacity to avoid any alignment challenges.

#### **2) Swivel base and head Assembly**

- **Static force capacity:** +/- 150 kN
- **Dynamic force capacity:** +/- 120 kN
- **Swivel angle:** +/- 75 degree
- **Tilt angle:** +/- 15 degree
- Swivels must be provided of type to withstand the given fatigue and monotonic loading.
- With swivels sufficient size of high strength threaded mounting bolts must be provided.
- They must have adjustable bearing clearance to minimize backlash.

#### **3) Dynamic Load Cell**

- **Capacity:** +/- 100 kN
- **Overload Capacity:** 150% of read capacity
- **Fatigue life:** > 10<sup>9</sup> full stress reversed cycles at full capacity.
- Accuracy should be +/- 0.002% of load cell capacity of 0.5% of indicated load Whichever is greater – Meets or surpasses ISO 7500-1 Class 0.5, ASTM E4, EN10002-2 Class 0.5, JIS (B7721, B7733) down to 1/250<sup>th</sup> of full scale.
- **Full scale output:** 2.0 mV/V
- **Non-Linearity:** < +/- 0.15% of FSR (Full scale reading)
- **Hysteresis:** < +/- 0.15% of FSR
- **Non-Repeatability:** < +/- 0.10% of FSR
- **Creep (30 minutes):** < +/- 0.05% of FSR
- **Excitation Voltage:** 10 volt DC
- **Operating Temperature range:** 0° C to +60° C

#### 4) Displacement transducer

- Actuator must be provided with Linear Variable Differential Transducer (LVDT) co-axially mounted with actuator for accurate measurement of stroke.
- **Minimum range:** 300mm
- **Full scale output:** 10 V
- **Independent Linearity minimum:** +/- 0.02% of full scale
- **Repeatability:** < 0.01mm
- **Hysteresis:** < 0.01mm
- **Pressure withstand:**
- Excitation Voltage: around 24 V DC
- Sampling rate  $f_{\text{standard}}$  minimum: 2 kHz
- **Operating temperature range:** -30°C to +75°C

#### 5) Servo Hydraulic Power Pack (HPS)

- HPS should be of sufficient capacity to supply required flow and pressure for the action of actuator to carryout various tests as per different standard for dynamic / static tests. It has to be provided with adequate capacity of oil tank and respective capacity of pump.
- **A suitable type of cooling system & temperature controller has to be provided to restrict the oil temperature below 50° C.**
- **Minimum flow of pump: 40 LPM**
- **Type of pump: Vane / Gear**
- **Max. Operating pressure (kg / cm<sup>2</sup>): 210**
- **Minimum motor rating: 25 HP**
- **Power supply of type: 440V, 3Phase, 50 Hz**
- **Minimum capacity of oil tank: 200 liters**
- Safety interlock system has to provide for the protection of motor and other components.
- **Sufficient reserve of oil level of 3 to 4 times of pump capacity has to be provided.**
- HPS has to be provided with pressure sensor and temperature sensor.
- Sufficient capacity of oil filter has to provided and in case of clogging, bypass valve also to be provided
- **HPS must be provided with anti vibrating mountings.**
- HPS must have relief valve to limit the pressure between zero to its safe working capacity.
- Set of hydraulic Hoses and connections have to provide between HPS and Actuator control manifold each of minimum 10m length is required.
- Pressure line filter must be attached next to the servo valve. Filtration in high pressure filter must be 3  $\mu$  absolute. The position of the filter should be in position that the cartridge can be replaced without opening any pipeline.
- Accumulator in 2 nos. of 0.5 Liters is required

#### 6) Electronic controller

- The servo hydraulic test system shall be controlled by a fully digital, closed-loop control system based on 32 or 64 bit architecture. The system must feature a digital control system capable of controlling the actuator in position, load and strain modes. Analogue control systems, even if digitally supervised, are not acceptable.

- It must be possible to run tests either by manual hardware based control panel or through application programs running on PC.
- The controller must provide control of hydraulic power supply from the load frame. The controller will monitor the hydraulic power supply's (HPS) safety features and must shut down the machine in HPS fault.
- The controller should have internal wave form generator.
- The resolution of internal wave form generator must be at least 24-bit.
- Frequency must be 0.01% of setting or batter.
- The frequency of wave form generator must be 1 kHz or batter.
- A cycle counter must be available. The cycle counter must display elapsed and total cycle.
- The control must have capacity to controls the movement of ram with respect to signal input on feed back basis either from load cell or displacement sensor.
- It must have signal conditioning unit consist of conditioning modules for various transducers (e.g. load cell, displacement transducers etc.) that receives the output signal from these sensors and amplifies and process that signal as per the requirement and transfer it to the computer through dedicated cables where it is accepted by data acquisition system.
- The controller must have six term controlled loop (featuring P, I, D, Leg, Feed forward and notch filter) to the servo valve to operate either of control modes i.e. load mode or displacement mode. Auto PID with auto zeroing, auto tuning and auto adjustment features must be available in servo operations.
- It must have capacity to sends the signal to computer and accept the command from the software to operate in desire manner.
- The programming facility must be given to operate the system in static mode at programmed rate of the loading in both load and displacement controls. In the dynamic mode the cycling can be done at a frequency from 0.01 Hz to 50 Hz or even higher.
- The controller must allow full closed-loop control from any connected, calibrated transducer available for control i.e. position, load and strain control, as well as derivatives of these such as stress intensity and plastic strain.
- The controller must features a facility for automatically updating the control loop terms in order to compensate for changes in specimen stiffness during a cycle. This facility must run with adaptive control.
- The control loop rate must be 10 kHz or batter.
- No of control channels minimum – 2 (load / displacement control)
- **Minimum 12 additional analog input channels to accept analog input signal from different source such as strain gauges, LVDT, Load cells, and COD gauges.**
- Demand wave generation capacity – sine, Haversine, triangular, Square, Random wave forms and ramp signals.
- It must have capacity of standalone operations to start, stop and hold the test system.



- It is desired that system has high-speed data acquisition card with minimum 100 kHz sampling rate.
- System must have 4 independent control modules with independent wave generator and each control module must have minimum 3 control channels.
- Controller must have load control mode between 0.01 kN /sec. to 10 kN / sec. and displacement control mode between 0.01mm /sec to 10mm / sec.
- **Dynamic frequency range of min. 0.01Hz to  $\geq$  50 Hz.**
- **Load accuracy must be  $\leq$  0.5% of indicated value of load**
- **Displacement accuracy must be  $\leq$  0.5% of indicated value of displacement.**
- Load resolution of Min 0.1 kN and displacement resolution of Max. 0.01mm is desired.
- Each signal conditioner should have data acquisition and logging rate of 5 kHz or better, fully synchronous and continuous regardless of the number of signal conditioners or transducers connected.
- The resolution of each signal conditioner must be 19 bit at 100 Hz bandwidth over the full range of transducer.
- It is desired that each signal conditioner should have an accuracy of 0.25% of reading or 0.005% of full scale (whichever is greater).
- Position accuracy must be  $\pm$ 1% of transducer full scale, or better, with the vendor supplied transducer.
- It is desired that peak detectors update at 5 KHz or better and memory of ultimate peak must be provided which is user reset.
- **The data logging must be fully selectable at up to 5kHz per connected transducer. This logging rate must be continuous as measured at the computer regardless of the number of transducer connected. Data acquisition on all channels must be fully synchronous to avoid data skew.**
- Logged data must include a time and cycle stamp for each logged point.

#### 7) Safety limit Detectors

- The controller must have facility for limiting the load applied during specimen set-up. The load threshold must be user adjustable.
- It is desired that range of actions be available, allowing the operator to choose the appropriate action.

#### 8) Control Software requirements

- Control software must be provided with host PC and properly installed with accurate performance
- Windows base user friendly software is required
- **Different type of loading can be given through this software to actuator assembly of various types like – Sine, Triangular, Square, Random wave form, ramp signals and time history of various type between the frequency of 0.01 Hz to 50 Hz.**
- **Programmable loading parameters such as frequency, base, amplitude, loading, displacements must be generated by this software as required.**

- **Type of test must be performed are Fatigue tests, Random dynamic loading tests, Static loading tests, CTOD and CMOD tests.**
- This software must have programmable safety limits for each load and displacement
- It is required in this software to hold the actuator and restart the loading during the test
- It must have facility to increase the base load, frequency and amplitude during the test and to save the data after the test.
- **Display and store the number of cycles in dynamic test with capacity of minimum 128 points up to 10 Hz frequency and minimum 64 points for >10 Hz frequency.**
- Software must have capacity to display Load vs. displacement, Load vs. time, displacement vs. time graph and other required data of all channels.
- It must have capacity to auto adjust the scale of graphs.
- Storing data of each channel in user define file / directory that have capacity to run in MS Excel and in analysis software.---
- It has ability to create test templates, data export to ASCII and report generation. Pre-define templates for various tests.
- High cycle fatigue software to meet ASTM E466-07 and D3479-07 stress-controlled high cycle fatigue test standard
- Low cycle fatigue software to meet ASTM E606-04 and D3479-07 strain controlled low cycle test standards and advance low cycle fatigue software to run constant amplitude, strain controlled fatigue testing in compliance with ASTM standards. Ability to allow user define hold times.
- Fatigue crack growth software to meet ASTM E647-08 test standard.
- KIC fracture toughness software to meet ASTM E399-08, ASTM E399-09 test standards, CTOD fracture toughness software to meet ASTM E1209-07, ASTM E 1290-07 test standard and JIC fracture toughness software to meet ASTM E 1820-08, ASTM E1820-09 test standard.
- Fatigue and fracture analyzer to analyze test run data.

9) **Host computer system requirement:**

- Computer must be provided with monitor of **size 21” of LED** type
- CPU with Intel **core i7** latest processor
- **RAM of 8 GB**
- Hard drive: 500 GB SATA
- Optical drive: 1 DVD RW
- Standard mouse and keyboard of USB type
- Minimum **6 USB** ports
- Microsoft **windows 10** operating environment and MS – Office basic edition
- UPS must be provided to give backup to PC up to 30 minutes.
- All required cabling must be provided with supply
- Supply input will be 220 V AC 50 Hz
- System is desired with 2 GB graphic card
- HP desk jet printer

**10) Other requirements:**

- 1) Vendors shall have valid NABL accreditation for testing and calibration of servo actuators along with load cells. Vendors shall provide proof of NABL accreditation in the technical bid itself.
- 2) Vendors shall have supplied such minimum 6 equipments within last 3 years.

**Section V: GENERAL TERMS AND CONDITIONS**

1. A complete set of bidding documents must be downloaded from the institute web-site <http://www.svnit.ac.in> Non-refundable tender fee as specified in the bid document by way of demand draft have to be remitted with the bid in favor of **Director, SVNIT-MHRD Fund, payable at Surat** with tender document. Without the tender fees being remitted, the tender will not be considered.
2. The manufacturer and or bidder must comply all the conditions mentioned in “**Section IV Schedule of Technical requirements.**”
3. Tenders should be enclosed in a sealed cover, super scribed “Tender For Supply of SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES at STRUCTURAL DYNAMICS Laboratory in Applied mechanics Department at SVNIT, Surat addressed to the “Director, Sardar Vallabhbhai National Institute of Technology, Ichhanath, Surat–395 007.”
4. The main sealed cover should contain within it, apart from the other required documents/items, the following at least Three envelopes viz.
  - a. A sealed envelope to contain the Demand Draft/FDR for EMD and the Demand Draft for tender fees.
  - b. A sealed Envelope superscripted as “Technical Proposal.”
  - c. A sealed Envelope superscripted as “Financial Proposal.”It should very clearly be noted that **any bid without these Three envelopes, enclosed in the main envelope, will be treated as an incomplete bid and is liable to be rejected.**
5. Bids will be opened in the presence of Bidders' representatives who may choose to attend on the specified date and time.
6. In the event of the date specified for the bid receipt and opening, being declared as a holiday for SVNIT, the due date for submission of bids and opening of bids will be the following working day at the appointed times.
7. All bids must be accompanied by a **bid security (Earnest Money Deposit - EMD)** as specified in the bid document by way of demand draft, have to be remitted with the bid in favour of **Director, SVNIT-MHRD Fund, payable at Surat** with tender documents.
8. EMD shall not bear any interest and no claim shall be entertained against the institute in respect of the same. EMD will be refunded on receipt of written request from the bidder by A/C Payee cheque only to the Bidder who does not qualify or receive the work order.
9. Tenders not accompanied by earnest money will not be considered and will be summarily rejected. As the institute is managed by an autonomous body and hence registration with the **State Government Store Purchase Department and Small Scale Industry shall not be the reason for exemption from EMD.**
10. The tender documents with earnest money deposited previously for any other tender will not be considered and in such case tender will be rejected.
11. The tenders received after due date will be rejected.
12. In case of Two Bid Tender the envelope containing the commercial/Price bid shall be opened only after the appropriate satisfaction and verification of the Technical Bid, by the SVNIT tender committee.
13. The bidder shall explicitly express the compliance to all the terms and conditions with the signature, along with official stamp on each page of the tender document.

14. The Bidder is expected to examine all instructions, forms, terms, and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid. not substantially responsive to the bidding documents in every respect will be at the Bidder's risk and may result in rejection of its bid.
15. In case of the authorized dealers quoting on behalf of manufacturers, a copy of certificate stating that the equipment being quoted by the bidder is on behalf of the concerned manufacturer and the manufacturer undertakes the responsibility to provide the after sales maintenance of the equipment must be enclosed without which bid will be rejected.
16. Consortium in any manner is not allowed in this Tender participation.
17. The bidder should clearly mention the after sales service facility/capability and provide the same during guarantee/warranty period.
18. The bidder shall arrange for repair/replace of the defective/worn out components of the equipment at this Institute premises during the guarantee period at purchaser's first instructions within stipulated Time. This will be carried out at the cost of prospective Supplier and no charges whatsoever will be paid including Transportation, Courier Charges or T.A. and D.A. of the Service Engineer for the same.
19. Supplier is not able to rectify the defect or make the alternate arrangement within stipulated time limit. Institute can get it rectified and the amount so spent will be deducted from security deposit plus 10 % of the expense made.
20. The rates shall be quoted separately for each item, stating the specific model & part-code no etc, including the standard items to be supplied with the unit. The detailed specifications, physical dimensions, guarantee period, after sale services, etc should be clearly stated.
21. The rate for individual equipment should be quoted in Indian rupees for all Indigenous goods. In case of imported equipment's/instrument the institute is exempted from the payment of Excise and Customs duty only against the DSIR certification No. **TU/V/RG-CDE(403)/2016** dated 21-02-2017 vide Government Notification No. 51/96. In case of foreign instruments, prospective Supplier should handle the custom clearance and transportation up to the destination i.e. SVNIT Surat, bearing all the cost for the same.
22. SVNIT being an Educational Technical Institute, the concession applicable in rates/Taxes under state/central govt. notification should be considered while quoting.
23. The institute CANNOT issue 'C' or 'D' forms. However, a certificate regarding the exclusive use of equipment/Instrument/services to be procured, for the purpose of teaching /research, can be issued if any concession in this regard be made available to the purchaser.
24. The bid shall be finalized on the basis of the **Net Amount in rupees** (including cost of the Installation, Packing, Forwarding, Transportation, ad valorem duty, Trainings, **all other Taxes, etc.**) F.O.R. on SVNIT, Surat.
25. The bidder must deposit a **Security Deposit** at a rate of **10%** of work order at the time of accepting the work order within 15 days of receipt of work order otherwise penalty of 2% of the work order will be charged for every week delay and delay of maximum 15 days will be allowed else order will be treated as cancelled without any notice and vender will be **blacklisted. The contract will commence only after Security Deposit and penalty if applicable is deposited.**
26. The Security Deposit shall be in the form of Bank guarantee and will remain **valid for the entire warranty period plus one month.** Failure on the part of the prospective Supplier to provide the services as per the terms and conditions in this document, shall constitute a breach of the terms and conditions of the contract and will entail forfeiture of the security deposit solely to the discretion of the Director,SVNIT.

27. Security deposit shall be released only after the satisfactory completion of work, due if any and faithful performance of the work and after receipt of application from bidder for the same. No interest will be paid on security deposit, in case of any default on the part of the bidder, the security deposit will be forfeited and the decision of SVNIT authorities in this regard will be treated as final and abiding to the bidder/supplier.
28. Failure of the successful bidder to comply with the above requirement shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security (EMD), in which event SVNIT may make the award to the next lowest evaluated bidder or call for new bids at the discretion of Director, SVNIT.
29. The prospective Supplier should clearly state the delivery period and time period required for installation and commissioning of the equipment/services, from the date of receipt of firm order. In case, if prospective Supplier anticipates delivery of any or all items being delayed due to the reasons beyond his control, the prospective Supplier shall apply for suitable extension, stating the reason for the same and state his firm date of delivery. The Director, if feels suitable may extend the delivery date.
30. In case of delay of delivery of the unit beyond the stipulated / stated period, a **penalty of 1% (One percent) of total value of the ordered equipment** will be levied for each week of delay of part thereof.
31. The bidder may offer the Tender on their letter heads giving full specifications and references to the serial number of the item and schedule. Bid must be written in ink, or typewritten, and correction, if any, should be attested. Penciled quotations will not be accepted.
32. Individuals signing the offers or documents connected with the contract must specifically state whether (s)he (they) is(are):
  - a. Signing as sole proprietor
  - b. Whether signing for the firm, and
  - c. In the case of companies or firms registered under the India partnership Act, the capacity in which (s)he(they) is (are) signing i.e. Secretary, manager, partner etc. or their attorney by production of document empowering him to do so.
33. Tender forms and schedules are not transferable.
34. Acceptance to abide by the conditions stipulated by the Director, should be duly signed along with the offer. The absence of the acceptance of the conditions may result in the rejection of the offer.
35. The acceptance or rejection of the tender is left entirely to the discretion of the Director. The Director does not bind himself to accept the lowest or any tender and Director, reserves the right to split the tenders and place orders for the equipment covered by the lists on one or more tenders.
36. The Institute does not make payment in an advance against delivery/documents through Bank and hence, the prospective Supplier should specifically note that no advance payment will be made.
37. The Prospective Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and they incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The Prospective Supplier further warrants that all Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the SVNIT's Specifications) or from any act or omission of the Prospective Supplier, that may develop under normal use of the supplied Goods in the conditions prevailing in the country of final destination.
38. The Prospective supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to final destination as indicated in the Contract (In case of material damage, supplier have to bare all expenses/responsibility before material reaches to the final destination). The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

39. The tender should reach the SVNIT office on or before the last date and time specified earlier. Tenders received thereafter will not be considered, in any case.
40. The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified and in any subsequent instructions ordered by the SVNIT.
41. The Goods supplied under the Contract shall be fully insured by the bidder in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery.
42. The Prospective Supplier's request(s) for payment shall be made to SVNIT in writing, accompanied by an invoice describing, as appropriate, the Goods delivered, and the Services performed, and by documents, submitted. Also along with these documents, the **prospective Supplier shall have to obtain a satisfactory installation certificate from the Structural Dynamics Laboratory, AMD of SVNIT –only after which the bill may be processed.**
43. Payment shall be made in Indian Rupees only.
44. Deviation from any requirements, specification, terms and condition mentioned in the tender document will not be entertained and tender will be rejected.
45. **The Director reserves the right to reject any or all the tenders without assigning any reasons there of.**
46. **The bid from the vendor who has received the work order for providing such service to SVNIT and was unable to provide the service, will be rejected.**
47. **The bid from the bidder who was found in fraud activity with SVNIT or on the name of SVNIT will not be allowed for bidding. The bid from such bidder will not be accepted and will be straight away rejected. Also, the bid submitted in consortium with such bidder will be rejected and if such information is found later then the work order issued will be terminated immediately without any notice.**
48. **All prospective bidders should keep looking at the institute website for information concerning the changes/amendments on the website.** No claim of any nature on any ground on inadequate information or knowledge or misunderstanding or otherwise in such respects will be admissible, later on.
49. Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the prospective Supplier does not accept the correction of errors, its bid will be rejected and its bid security (EMD) may be forfeited.
50. **No Bidder shall contact the SVNIT authorities on any matter relating to its bid, from the time of the bid opening to the time the Contract is awarded. If the bidder wishes to bring additional information to the notice of the SVNIT, should be done in writing.**
51. Any effort by a Bidder to influence the SVNIT and its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.
52. Bidders shall not be under a declaration of ineligibility for any corrupt and fraudulent practices prosecuted by the court of law.
53. The tender, as quoted once shall be considered final. No change, alterations and modifications shall be permitted at a later stage. Incomplete tenders will be rejected without assigning any reason.
54. It is compulsory to attach all the mentioned and required documents at time of submission of tender. No additional attachment is permitted later on.
55. All documents along with tender form must be numbered. (1...n) and corresponding page number must be entered in the pre-qualify sheet, no further clarification will be entertained.
56. The bid from the vendor or its sister concern or group of company who has been black listed at any Government organization / Semi-Government Organization / public sector etc. will be rejected.
57. The bid for OEM who has been black listed at any Government organization / Semi-Government Organization / public sector etc. will be rejected.

58. The supplier shall arrange for repair/replacement of the defective/worn out components of the unit at this Institute premises during the warranty period and within 15 (fifteen) days of purchaser's first communication in this regard. This will be carried out at the cost of supplier, and no charges whatsoever will be paid by the Purchaser including T. A. and D.A. of the Service Engineer for the same.
59. **The minimum validity period for the offer should be for 120 days.**
60. **The financial offer of only those tenders will be considered who satisfies the technical Specifications and other essential requirements mentioned in Section IV: Schedule of Technical requirements.**
61. Successful bidder should raise the bill of the items actually installed, quantity shown in the tender document are for mere guideline and show approximate quantity.
63. The supplier or the Indian representative should install the system and bring into complete operation, at Structural dynamic laboratory, Applied Mechanics Department, SVNIT Surat and to satisfaction, without any charge.
64. The supplier or the Indian representative should give comprehensive warranty for the complete system for the warranty period specified by the supplier from the date of the completion of the satisfactory installation. The warranty period shall be **Three years** from the date of satisfactory installation, commissioning and training of personnel for use of the equipment.
65. The Goods supplied under the Contract shall be fully insured in Indian Rupees against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery to the place of destination within India defined as Structural dynamic laboratory, Applied Mechanics Department, SVNIT Surat. The insurance shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.
66. Full coverage insurance against any accidental loss or damage during transportation and testing at the sites shall be provided by the Supplier for a minimum period of **THREE years** after successful installation, and the related cost shall be included in the Contract Price.
67. The bidder should provide necessary handy professional training for Management & troubleshooting with valid certification of Six (06) concerned SVNIT staff for operation, configuration, management, and servicing of entire system at Structural dynamic laboratory, Applied Mechanics Department, SVNIT Surat. No extra charges will be paid for the training, total expenses including TA / DA and any other expense towards the same will be bare by the bidder.
68. If Supplier is not able to rectify the defect or make the alternate arrangement within stipulated time limit i.e. 15 days. Institute can get it rectified and the amount so spent will be deducted from security deposit plus 10 % of the expense made.
69. In the event of material supplied are not being in accordance to the specifications of items ordered or is found in damaged condition, the supplier will at his cost and risk, arrange to replace the same without any claims whatsoever for the same.
70. The prospective supplier immediately on intimation after successful bidder shall furnish the Security Deposit which will be equivalent to 10% of the overall cost of the bid. The prospective Supplier will agree with the Director, S V National Institute of Technology Surat, (hereinafter referred to as THE DIRECTOR) for the due fulfillment of the contract.
71. This security shall be in the form of Bank guarantee and will remain valid for the entire warranty period of three years or more as specified. Failure on the part of the prospective Supplier to provide the
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service as per the terms and conditions in this document shall constitute a breach of the terms and conditions of the contract and will entail forfeiture of the security money deposit, solely to the discretion of the Director, SVNIT.

- 72. After accepting work order, the bidder shall complete the installation, commissioning and providing training of the entire system within 60 days.**
73. The financial bid shall not contain any conditions. The financial bid shall also contain cost of extra items as proposed by the bidder in the technical bid.
74. The successful bidder must submit a letter of accepting the work order within 15 days of receipt of work order otherwise the work order is liable to be canceled without intimation.
75. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 36 months and the Performance Bank Guarantee for proportionate value shall be extended 60 days over and above the extended warranty period.
76. Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail, and the total price shall be corrected. If there is a discrepancy between words and figures, the amount in words will prevail. If the prospective Supplier does not accept the correction of errors, its bid will be rejected and its bid security may be forfeited.
77. In case of any dispute, the matter will be subjected to SURAT jurisdiction only.

**DIRECTOR, SVNIT.**

**Section VI : DECLARATION**

**Tender reference no: AMD/SDL/Tender/2017-18**

**Date: 23.02.2018**

I/We hereby declare I/We have read all the terms and conditions of the Tender stated in all the sections in this tender document and as may be modified/mutually agreed upon, are acceptable and binding to me/us.

I/We have also verified that the bidding document contains at least the following

- **A sealed envelope to contain the Demand Draft/FDR for EMD and the Demand Draft for tender fees.**
- A sealed Envelope superscripted as “**Technical Proposal**” to contain at least the following:
  - The Tender document appropriately signed and stamped at all pages
  - General Conditions of Contract
  - Acceptance to all the Requirements;
  - A sealed Envelope superscripted as “**Financial Proposal**” should contain ;
  - **Price of the equipment with all the accessories as per the technical specifications in Section IV**
  - **Price should also include comprehensive warranty of THREE years from the date of satisfactory installation, commissioning and training of personnel for use of the equipment at SDL,SVNIT. 1 full service and NABL accredited calibration of equipment’s is required on 2<sup>nd</sup> and 3<sup>rd</sup> year on intimation by the purchaser**
  - **Above Price should also include full coverage insurance against any accident or damage during transportation and testing for a minimum period of THREE years**
  - **All the applicable taxes should be clearly mentioned**

**I also understand that** my bid without these three envelopes, enclosed in the main envelope, superscribed as “Tender for Supply of SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES at Structural Dynamics Laboratory in Applied Mechanics Department at SVNIT, Surat” will be treated as an incomplete bid and is liable to be rejected.

Place:

Signature:

Date:

Name & Address of the Bidder with office Stamp with all contact details

## Section VII: Summary Sheet

Tender reference no: AMD/SDL/Tender/2017-18/

Date: 23.02.2018

The Bidder (Manufacturer or Supplier) should be supplying SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES since last 3 financial years.

Name of the Manufacturer:

Name of the Supplier:

Sr. No.	Name and address of the Customer	Supply Order/Satisfactory performance certificate attached (Yes/No) If yes, give page no.	Date of issue of supply Order/Satisfactory Performance Certificate

Note: - Please attach Supply Order/ Satisfactory Performance Certificate for SERVO HYDRAULIC ACTUATOR ASSEMBLY AND ACCESSORIES under successful operation.

Date :

Signature & Stamp of Bidder

Place :

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Signature of the Binder with Stamp:

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**Tender reference no: AMD/SDL/Tender/2017-18/**

**Date: 23.02.2018**

Sr. No.	Description	Qty	Brand/Make Model	Unit Rate	Total Amount
	Servo Hydraulic Actuator Assembly and other accessories as per specification mentioned in technical specification section	1			
	Total in Rs.				
	Rebate / Concession in Rs.				
	NET AMOUNT				
	Rupees (In words)				

Note :

- (i) All taxes should be inclusive.
- (ii) This summary sheet must be enclosed in Techno-Commercial envelop, otherwise the bid will be rejected.
- (iii) RTO Charges, Insurance, SMC Tax, TCS will be paid at actual should be mentioned.
- (iv) Validity of Quotation should be (minimum) 120 days from the date of bid opening

I understand that any ambiguity in or incompletely filled SUMMARY SHEET will lead to rejection of offer without being cited any reasons

**SIGN OF THE PARTY**

**WITH FULL ADDRESS STAMPED**

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**Signature of the Binder with Stamp:**

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