



**SARDAR VALLABHBHAI NATIONAL
INSTITUTE OF TECHNOLOGY SURAT**
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TENDER NOTICE

Sealed tenders are invited from the supplier /manufacturer /distributor /vendor for the supply of the following item.

| Name of the Item | Quantity |
|---|-----------------|
| Weld Simulator (For detail specifications refer website www.svnit.ac.in .) | 01 No. |

Tender documents will be available on request during office hours **from 05/10/2017 to 21/11/2017** from Mech. Engg. Deptt. of Institute on payment of Rs 500/- towards tender fee to be remitted by cash for tender documents delivered in person or Rs 550/- by DD drawn in favour of “Director, SVNIT, Surat” in case tender documents are to be sent by post. The tentative date of opening of tender is 23/11/2017 at 15:00 hours. The tender documents may also be downloaded from institute website www.svnit.ac.in. However, the tender fee must be paid before submission of tenders. The director reserves the right to reject any or all the tender items without assigning any reasons whatsoever thereof.

No. SVNIT/MED/VDK/2580/17-18

DIRECTOR

TENDER DOCUMENT

SUPPLY OF ITEMS FOR MECHANICAL ENGINEERING DEPARTMENT



S. V. NATIONAL INSTITUTE OF TECHNOLOGY,
SURAT -395007

**SARDAR VALLABHBHAI NATIONAL INSTITUTE OF
TECHNOLOGY, SURAT**

TENDER DOCUMENT

I. Issued to M/s. _____

II. Name of work, Reference No. & EMD to be deposited by cash or D. D. Drawn in favour of “Director, S.V.N.I.T., Surat” are as specified in the following table:

| Item No. | Item Name | Ref. No. | Quantity | E.M.D. (Rs.) |
|-----------------|---|-------------------------------------|-----------------|---------------------|
| 1 | Welding simulator Please refer item details (Page 9-12): A: Item Specifications B: Minimum parts to be supplied C: Additional requirements | No. SVNIT/MED/VDK /2580/17-18 | 1 set. | 10,000/- |

III. The total number of pages in this tender document is twelve (12) only.

SCHEDULE OF TENDER

1. Start of Issuing Tender Documents : 05/10/2017
2. Last Date of receiving sealed Tender Documents : 21/11/2017, 5.00 pm
3. Tentative Date of Opening of Tender : 23/11/2017, 3.00 pm

DIRECTOR

GENERAL TERMS & CONDITIONS

- 1. Tenders received without payment of tender fees will not be considered.**
2. Tender for each item (equipment/instrument) must be submitted separately with the name of equipment/instrument clearly mentioned on the top of the envelope along with the Tender Reference Number. Only first item quoted will be considered in case more than one equipment is quoted in one envelope.
3. The Earnest money for each of the quoted item will have to be paid by Crossed Demand draft drawn in favour of **Director, S. V. National Institute of Technology, Surat**, and enclosed along with the tender documents. This amount will be refunded later, on receipt of written request from supplier. **EMD shall not bear any interest and without this EMD, the Tender shall not be considered. No correspondence in this regard shall be entertained.**
4. **The tenders as quoted once shall be considered final. No negotiations for the rate nor any change, alterations and modifications shall be permitted at a later stage.** After opening of the tender regarding specifications of the items in quotations, it will not be possible to accept any changes and no correspondence will be entertained in this connection.
5. The equipment/instrument should be furnished/supplied with a complete set of manuals, catalogues, technical literature, user's manuals and other relevant manuals for each of the items supplied.
6. In case the party has the standard equipment/instrument with marginally different specifications, the same may also be quoted with complete specifications of the equipment/instrument being offered. In case the party has the equipment/instrument with more variations in specifications, equipment may be quoted with complete details.
7. The supplier should have preferably supplied the same equipment/instrument to some of the customers in South/West region, the list of which will have to be furnished along with the quotations.
8. The rate for every individual equipment/instrument should be quoted in Indian Rupees for all indigenous goods. In case of imported equipment/instrument the rates should be offered in foreign currency **as the institute is exempted from, the payment of custom duty.**

9. The rates should be inclusive of all taxes with F.O.R. destination at S.V. National Institute of Technology, Surat. The rates may be quoted preferably in the following format:

9.1 Basic Price of the Unit :

9.2 Price of necessary accessories/spares etc. :

(Prices should be quoted separately for the above items)

9.3 Taxes :

NOTE :(1) The College cannot issue 'C' or 'D' forms for tax concessions.

(2) The college is also **exempted from the payment of Custom Duty and Central Excise Duty if applicable**. The college will provide necessary exemption certificate in this regard, on demand.

9.4 Packing and Forwarding :

9.5 Transport (F.O.R. Destination at :

S. V. National Institute of Technology, Surat.).

9.6 Installation and Commissioning :

9.7 Insurance :

9.8 Any other charges (please specify) :

9.9 Rebate/Concession for academic Institution :

9.10 **Total :**

10. In case of authorized dealers/sole agents/sole manufacturer in India, appropriate certificate should be submitted along with the tenders.

11. The delivery should be effected within eight weeks from the date of receipt of supply order or a mutually agreed date. The tender should clearly state the delivery period required.

12. In the event of supply being delayed, the party concerned shall apply for suitable extension, stating the grounds/reasons on which the extension is sought.

13. In case the delivery period is delayed beyond the stipulated period inclusive of any extension granted, **a penalty of 5% of the total value of the order will be levied for each week of delay or part thereof.**

14. The goods are required to be duly insured with any nationalized insurance company and the insurance charges will be borne by the institution against the relevant documents of the insurance company.

15. The **validity of the tender to be submitted may be kept open at least for 120 days from the last date of the receipt of the tender.** However it is desirable to have a longer validity period.
16. The supplier shall be required to undertake the comprehensive guarantee/warranty for all the equipment supplied for a period of **minimum three years** from the date of satisfactory installation of the equipment/instrument.
17. The supplier should provide necessary training for the operation and servicing of the equipment/instrument at free of cost to the concerned personnel, if asked by the purchaser.
18. The supplier shall provide users list and the certificates of satisfactory operation of the equipment/instrument supplied by them to at least three well-known organizations preferably within Gujarat state during the last three years.
19. The supplier shall provide 3 sets of both technical/service manuals and operation/installation manuals along with the proper dust covers for the instrument/equipment at free of cost. Supplier should also provide certificate of calibration traceable to National / International Standards.
20. In case the quoted rates are as per the valid and prevailing contract, with DGS and D, New Delhi/ GEM, the supplier shall furnish a certified Xerox copy of the same to the purchaser. It may also be mentioned whether supplier can accept a direct order based on DGS and D rate / GEM contract.
21. Payment is normally made by cheque drawn on the SBI, SVNIT Branch, Surat within a period of 30 days from the date of satisfactory installation of equipment/instrument. **This college is fully financed by Central Governments and the Government auditors have objected for making advance payment against delivery/documents through bank.**
22. Goods may be inspected at the factory before dispatch, if required at supplier's cost and risk. Goods received in the damaged condition will be rejected at the cost and risk of the supplier.
23. In the event of material/equipment/instrument supplied not being as per specifications, the same will have to be replaced at the cost and risk of the supplier. The rejected material will also be sent back at the cost and risk of the supplier including packing and forwarding charges. No payment will be released unless the material/equipment/instrument is as per the specifications specified in the tender.

24. The supplier shall arrange for repair/replacement of the defective/worn out components of the equipment/instrument at our place during the guarantee period at purchaser's first instructions within 15 days. This work will be carried out at the cost of supplier and no charges whatsoever will be paid including TA/DA of the service engineer for the same.
25. The supplier should clearly mention the after sales service facility/capability and provide the same during guarantee/warranty period.
26. Incomplete tenders will be rejected without assigning any reasons and no correspondence will be entertained in this connection.
27. Supplier and/or his representative may remain present on the date and time specified for opening of the tender.
28. The Director reserves the right to increase or decrease the quantity of the tender items or split the items of the tender. Rights are also reserved with the Director to reject any or all the tenders without assigning any reasons thereof.
29. In case of any dispute the matter shall be subject to Surat (Gujarat state) jurisdiction only.
30. In case the equipment is internationally certified for quality and bears the ISO 9000 or TQM certification, a copy of relevant certificate may be enclosed. Such equipment may be given preference.
31. In case of the authorized dealers quoting on behalf of Manufacturers, a copy of certificate is required to be enclosed from the manufacturer, that the equipment being quoted by the party is on behalf of the concerned manufacturer and the manufacturer undertake to provide the after sales maintenance of the equipment.
32. The Tender must be accompanied with a signed declaration from the party that the terms and conditions of the Tender are acceptable and binding to the party.

Note:

Suppliers are requested to mention CLEARLY the following ON THE SEALED TENDER ENVELOP:

Quotation for: Weld Simulator

Tender Ref. No. SVNIT/MED/VDK/2580/17-18

DIRECTOR

DECLARATION

(To be filled by the tenderer)

I/We _____ hereby declare that the terms and conditions of the Tender for reference number SVNIT/MED/VDK/2580/17-18 stated herein for the item weld simulator, and as may be modified/mutually agreed upon are acceptable and binding to me/us.

Name and Address of Supplier/
Manufacturer

Name and Signature of the
Tenderer with Official Stamp

Date: _____

Place: _____

Contact No. : _____

Fax Number: _____

Email ID: _____

Item Details

Item No.: 01

Item Name: Weld simulator

Required quantity: 01 set.

A. Item specifications

| Sr. No. | Content | Description |
|---------|-------------------|---|
| 1. | Simulated process | SMAW with provision of user defined courses |
| 2. | Input supply | Single phase, 230V, 50 Hz |
| 3. | Current range | <p>3.1 Range: 50A - 500A (Minimum)</p> <p>3.2 Provision of current selection in software: The setup should have provision to select the current to any value within the range i.e. User selection as per requirement.</p> |
| 4. | Electrode | <p>4.1 Physical electrode to be used and same must retract simulating the consumption of electrode</p> <p>4.2 Provision of electrode diameter selection in software: 2.5, 3.15, 4 mm and any such standard diameters.</p> <p>4.3 Provision of electrode material selection in software: Rutile, basic, cellulose, and any such standard materials.</p> |
| 5. | Work piece | <p>5.1 Physical Haptic workpiece (Non-metallic)</p> <p>5.2 Provision of joints selection in software: Butt , fillet, lap, pipe to pipe, pipe to plate joints, etc.</p> <p>5.3 Provision of base material selection in software: Plain carbon steel, stainless steel, aluminium and standard alloys.</p> <p>5.4 Provision of base material thickness selection in software: Vary the thickness of plate from 0.5 mm to 25 mm. (i.e. User selection in decimal points)</p> |

| | | |
|-----|---------------------------|---|
| 6. | Work piece weld length | Weld bead of minimum 10 inch long and above |
| 7. | Multi pass welding | Software should have provision to choose multi pass welding depending on plate thickness |
| 8. | Welding position | 1F to 6F positions in fillet and 1G to 6G positions in groove |
| 9. | Stick out distance | Welding to accommodate short and long stick out like real welding. (i.e. User selection in decimal points) |
| 10. | Technology | Augmented/Virtual reality |
| 11. | Welder view | Welder will be able to see the real work piece from inside the helmet. At any point during the welding, welder should be able to touch / rotate / adjust the work piece to gain comfort. |
| 12. | Skills analysis for torch | Analysis for arc length, stick out, speed, work angle, travel angle & path, etc. |
| 13. | Defects analysis | Porosity, spatter, burn through, inclusions, etc. |
| 14. | Dual access | Online access for student practice and offline access for trainer to evaluate the previous performance |
| 15. | Trainer access | Offline access of the trainer for evaluation, analysis, data feeding, etc. |
| 16. | Access from external PC | Add, edit & delete students, courses, modules. Evaluation of student performance. Compatible software for offline access to the trainer. Creating own WPS. Upload of pdf documents. |
| 17. | Evaluation methodology | Software should have provision to provide score and graphical trends as per the trainer's requirements. |

B. Minimum parts to be supplied with the item:

1. Welding simulator including display and CPU (System RAM-4GB) – 01 No.
2. Reality Helmet – 01 No.
3. SMAW torch with electrode – 01 No.
4. Work piece plates – 01 each for lap joint, butt joint, fillet joint, pipe butt joint and pipe fillet joints, etc.
5. Work stand – Appropriate facility to fix the job in all positions.
6. Software for offline access - To be provided in DVD/CD/Pen drive
7. Router with cables – 01 set
8. UPS power backup – 1 to 2 Hours

C. Additional requirements:

1. Quoted price should cover warranty/guarantee and AMC of the item for 03 years period from date of installation (Hardware as well as software).
2. There should be 3 training of the simulator to be given by the company expert without any extra cost. First training should be a mandatory training during the time of installation and remaining two trainings should be scheduled as and when required during the warranty period.
3. It will be mandatory to the supplier to provide any updates available, in hardware/software of the same model of the welding simulator after the installation, at free of cost.
4. At present, the model to be purchased consist of SMAW process only, however there should be provision in the model to upgrade with multiple number of processes in future. It will be mandatory to the supplier to provide additional requirements or process modifications for up gradation of model, at reasonable price in future. Supplier should provide a certificate for the same along with the invoice.
5. **The software should also allow user defined courses with chosen current, material, thickness, electrode diameter, etc.**
6. Simulator must have sufficient large display screen i.e. 20 Inch and above with touch screen facility for easy controlling of the machine.
7. Welding simulator should provide green learning with no real arc or real fumes.
8. Welding simulator should have continuous arc with weld bead formation during simulation.

9. The objects (work pieces) provided with welding simulator must be actual hardware and the simulation images must be virtual objects visible inside the special reality mask.
10. Supplier should have 3D welding simulator software accredited by renowned international welding society. This certificate is required to attach during submission of tender documents.
11. Video, graph and percentage of various data should be visible on welding simulator screen for evaluation purpose.
12. The software should have in built intelligence to prevent welding at wrong positions/parameters.
13. The set up should have provision for WiFi connectivity and cloud based data access.
14. The setup should have provision for unlimited number of users.
15. The setup should include predefined courses with varying difficulty levels.
16. The setup should have provision to connect to projector/monitor.
17. All software must be supplied with lifetime license including main OS such as windows
18. Administrator and Trainer Login must be available to monitor and evaluate students activity Data Back Up and Calibration Facility.
19. Each welding seam must be recorded and the same can be played for evaluation purpose.
20. Machine Display must be able to play e-learning Videos, Various Audio visuals related to Welding and safety.
21. The item should be supplied with 3 copies of product manual consisting of operating procedure and important do's and don'ts related to the machine.

DIRECTOR