

Tender
for
Supply & Installation of
Submerged Arc Welding Machine
at
Indian Institute of Technology Jodhpur

NIT No. : IITJ/SPS/ME/1/1(I)/2015-16/87
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॥ त्वं ज्ञानमयो विद्वानमयोऽसि ॥

Indian Institute of Technology Jodhpur
Old Residency Road, Ratanada, Jodhpur – 342011, Rajasthan
Telefax: 0291- 2449011, email: sps@iitj.ac.in

Notice Inviting Tender

Indian Institute of Technology (IIT), Jodhpur, Rajasthan (hereinafter referred to as the “Institute”) an Educational Institute of National Importance, invites sealed tenders from the authorized distributors/dealers only for supply and installation of the following item at the Institute. You are requested to quote your best offer along with the complete details of specifications, terms & conditions. The tender document can be downloaded from the Institute website at URL Link: <http://www.iitj.ac.in> or from Central Public Procurement Portal link: <http://www.eprocure.gov.in>.

S. No.	Item Description	Quantity
1.	As per Annexure-I (page nos.5, 6, & 7)	As per Annexure-I (page nos.5, 6, & 7)

Quotation should be sealed and superscribed with tender number and due date of submission and address to:

“Officer-in-charge
Office of Stores and Purchase
IIT Jodhpur
Old Residency Road, Ratanada
Jodhpur – 342011, Rajasthan”

The sealed quotations should reach the Institute, latest by March 29, 2016 by 03:00 PM and it will be opened on same day at 04:00 PM in the Conference Room, Administrative Block of the Institute in the presence of the bidder(s) or their authorized representative(s), who will present at the scheduled date and time.

Terms & Conditions:

1. Earnest Money Deposit: The bidder shall be required to submit the Earnest Money Deposit (EMD) for an amount of Rs.12,000/- (Rupees Twelve Thousand only) which is refundable and a non-refundable tender fee of Rs.500/- (Rupees Five Hundred only) by way of demand draft only. The demand drafts shall be drawn in favour of “Director, IIT Jodhpur” payable at Jodhpur.

The Earnest Money Deposit of the tenderer, whose tender has been accepted, will be returned on the submission of the performance security, and for unsuccessful bidder(s) it would be returned after award of the contract. Earnest money deposit of the successful tenderer shall be forfeited, if it refuses or neglects to execute the order or fails to furnish the required performance security within the time frame as specified by the Institute.

After the award of the contract to the successful tenderer, the earnest money deposit of the unsuccessful tenderer(s) will be refunded within 30 days.

Bid(s) received without demand drafts of EMD and tender fees shall be liable for rejection.

The firms who are registered with National Small Industries Corporation (NSIC) / or Small Scale Industrial (SSI) are exempted to furnishing the EMD and tender fee.

2. Rates: Rates may be quoted in INR or in Foreign Currency on F.O.R. destination at IIT Jodhpur, Old Residency Road, Ratanada, Jodhpur – 342011, Rajasthan on DOOR Delivery Basis, inclusive of all the charges, with breakups as:

- (i) Basic Cost.
- (ii) VAT / CST as applicable.
- (iii) Total Cost (F.O.R at IIT Jodhpur).

Note: Institute is registered with DSIR, Govt. of India (Custom Duty Notification No. 51/96- Custom dt: 23 July, 1996 and Central Excise Duty Notification No. 10/97- Central Excise dt: 1 March, 1997) and is therefore, exempted from Excise Duty and partial exempted from Custom Duty (CD applicable to IIT Jodhpur is 5.15%). Exemption certificate of the same shall be issued.

3. Validity: The quoted rates must be valid for period of 90 days from the date of closing of the tender. The overall offer for the assignment and bidder(s) quoted price shall remain unchanged during the period of validity. If the bidder quotes the validity shorter than the required period, the same will be treated as unresponsive and it may be rejected.

In case the tenderer withdraws, modifies or change his offer during the validity period, bid is liable to be rejected and the earnest money deposit shall be forfeited without assigning any reason thereof. The tenderer should also be ready to extend the validity, if required, without changing any terms, conditions etc. of their original tender.

4. Delivery period: All the goods ordered shall be delivered within 05 weeks from the date of issue of the purchase order. All the aspects of safe delivery and commissioning shall be the exclusive responsibility of the supplier.

If the supplier fails to deliver and commissioning of the goods on or before the stipulated date, then a penalty at the rate of 1% per week of the total order value shall be levied subject to maximum of 10% of the total order value.

5. Guarantee / Warranty: Tender must be quoted with three (03) years warranty on site and it will commence from the date of the satisfactory installation / commissioning of equipment against the defect of any manufacturing, workmanship and poor quality of components.

6. Performance Security: After the award of work, the supplier shall be required to submit the performance security in the form of irrevocable bank guarantee in the prescribed format (Annexure-II) issued by any Nationalised Bank / or Fixed Deposit Receipt, for an amount equal to the 10% of order value and **it will be kept valid for a period of 60 days beyond the date of completion of warranty period. Warranty Period will be commenced from the date of the**

installation of the supplied item. Hence, be careful at the time of calculation of the validity date of Performance Bank Guarantee.

7. Payment Terms:90% payment against delivery and satisfactory installation, and balance 10% after the submission of Performance security. It is must to submit the Performance Security within one month after the delivery of the ordered material, otherwise the remaining 10% payment (equal to the amount of Performance Security) will be forfeited, due to noncompliance of tender Terms & Conditions.

8. Signed & stamped compliance sheet of the technical specification of the goods with technical printed literature along with Bill of Material (BoM) mentioning all the terms & conditions clearly, must be enclosed with the bid.

9. Bidder shall submit a copy of the tender document and addenda thereto, if any, with each page of this document should be signed and stamped to confirm the acceptance of the entire terms & conditions as mentioned in the tender enquiry document.

10. Applicable Law:

- The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
- Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Jodhpur, Rajasthan, India only.
- The Arbitration shall be held in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the venue of arbitration shall be at Jodhpur. The decision of the Arbitrator shall be final and binding on both the parties.
- Force Majeure: Any delay due to Force Majeure will not be attributable to the supplier.

11. After due evaluation of the bid(s), the Institute will award the contract to the lowest evaluated responsive tenderer(s).

12. Conditional bid will be treated as unresponsive and it may be rejected.

13. The Institute reserves the right to accept in part or in full or reject any or more quotation(s) without assigning any reasons or cancel the tendering process and reject all quotations at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder or bidder(s).

Annexure-I

Submerged Arc Welding Machine; Qty.: 01 no.

Technical Specifications

DESCRIPTION of item to be supplied

The tractor mounted Submerged Arc Welding machine of 800 Amperes or more current capacity is intended for the process of submerged arc welding in which a continuous solid wire in the form of a spool is used as the electrode, current for the welding arc being obtained from a constant voltage power source, the arc submerged under a layer of dry granular flux to shield the weld from atmospheric oxidation and to help improve the welding environment while the flux is fed from a hopper arrangement ahead of the arc, filling of which is done manually. The excess unused flux is collected through a flux recovery system and reused. The machine shall consist of:-

1. Power source (Thyristor/invertor based)
2. Welding head assembly (tractor mounted) fitted with
 - Wire feed drive roll (2.0 - 4.0 mm) – 1 no.
 - Nozzle (2.0, 2.5, 4.0, 5.0, 3.15 mm) – 1 no. each
 - Vertical adjustment assembly – 1 no.
3. Carriage assembly fitted with
 - Horizontal slide assembly (2 metres x 2 nos.) – 4 metres.
 - Pipe assembly – 1 no.
- 4 Flux hopper assembly – 1 no.
- 5 Controller assembly (feather touch type) – 1 No.
- 6 Wire guide assembly – 1 no.
- 8 Wire Cable assembly (1 m or more length as required for functioning) – 1 set.
- 9 Standard accessories - 1 set consisting of
 - Control cable assembly (10 metres or more length as required for functioning) – 1 no.
 - Wire feed drive roll (2.0 to 4.0 mm) – 1 no.
 - Nozzles (2.0, 2.5, 4.0, 5.0 mm) – 1 no. each
 - Track for carriage – (4 metres) – 1 no.
 - Insulating bush – 4 nos.
 - Flux hose – 1 no.
 - Guide rails

The successful bidder shall supply and commission the tractor mounted Submerged Arc Welding machine comprising of power source, welding head assembly, carriage assembly, flux hopper assembly etc. at the IIT Jodhpur in Jodhpur, Rajasthan.

The supply shall include all concomitant accessories/ equipments as detailed in the specification and any other concomitant accessories/equipments, which the manufacturer considers essential to make the machine fully operational when installed and connected to shop power source and other utilities.

The tender involves supply and commissioning of Submerged Arc Welding machine complete in all respects as per the specification enclosed.

The machine shall be capable of continuous operation for long periods in temperatures ranging from 0° to 50°C and relative humidity upto 98%.

Necessary CONCOMITANT ACCESSORIES

The machine shall be accompanied by the following concomitant accessories whose cost shall be included in the basic price of the machine. However, the cost of each item of following concomitant accessories should also be given separately in the offer

1. Fillet welding attachment
2. Set of copper welding cables of 10 mtrs length or more as required for proper functioning each for connection from the power source to the welding head and for earthing .
3. One set of welders accessories consisting of wire brush for cleaning welds, hand gloves, chipping hammer and wire cutter.

4. Flux - 30 kg
5. Flux drying oven of minimum 5 kg. Capacity.
6. Wire each of 25.0 kg net weight of following sizes namely, 3.2 mm and 4.0mm. The successful bidder shall supply input cable from Mains to the Power Source (upto 10 Meters. Or more depending on the requirement for proper functioning)
8. Any other concomitant accessories required to make the machine fully operational on installation when connected to mains power source must also be included in the scope of supply and the cost of such accessories should be included in the basic price of the machine.

OPTIONAL ACCESSORIES

The cost of the following optional accessories should also be quoted separately and shall not be included in the basic price of the machine.

- 1 Extra lead of cable with an auxiliary wire-feeding unit should also be quoted separately per unit length.
- 2 Any accessory which in the opinion of the bidder can contribute to higher productivity or better precision quality levels should be clearly indicated and quoted separately.

BASIC DESIGN FEATURES

- 1 The machine should have adequate safety features like overload protection, double earthing of electrical circuit etc.
- 2 The welding power source should have step less setting of Arc current and voltage and also electronically protected against overloads. It should be suitable for voltage fluctuation. It should have forced air-cooling.
- 3 The system shall have provision for lifting and lowering the welding tip through 400 mm from its lowest position viz., 700mm from the floor level to suit any convenient height for performing welding. It should also be possible to adjust distance of welding head with the centre of travel carriage to enable welding of jobs placed at a distance of 0-300 mm from the centre of travel carriage.

Technical specifications

Major specifications

- a) Welding tractor speed : 400 mm to 800 mm/min or more.
- b) Wire feed speed : 0.5 to 2.5 m /min or more.
- c) Wire diameter : 2.4 mm to 4 mm/min or more.

1. POWER SOURCE:

- 1.1 Power source (Thyristor /Invertor based) with constant voltage Characteristics
- 1.2 Adjustable current range : 150 Ampere - 1000 Ampere or more
- 1.3 Max. Welding Current : 1000 Amps or more (At 100% duty cycle)
- 1.4 Input power supply : 3 Phase, 380V±15% or 415 V + 10%, 50-60 Hz
- 1.5 Power factor : 0.7 (Minimum.)
- 1.6 No load consumption : Maximum 500 watts
- 1.7 Ingression Protection : IP 23
- 1.8 Class of insulation : Class "F" or better
- 1.9 Type of cooling : Forced air cooled
- 1.10 Weight of power source : 450 kgs (Max.)

2. WIRE FEEDER:

- 2.1 Speed range : 500 to 2500 mm/min or more (for wire feed)

3.0 WELDING HEAD

- 3.1 Wire diameter for : 2.4 to 4.0 mm or more submerged Arc process
- 3.2 Carriage speed : 400 to 800 mm/min or more.
- 3.4 Total carriage travel : 4 Mtrs. (Min)
- 3.6 Capacity of the hopper : 5 Kg or more

SUPPLIER'S RESPONSIBILITIES

1. Advising consignee in time regarding schedule for requirement of clear site for construction of foundation and other infrastructure.
2. Unloading of the machine/equipment on receipt and its movement to the site of installation.
3. Installation and commissioning of the machine including arrangement of all man power, material, material handling equipment and facilities required for the same.

Annexure – II

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

The Director
Indian Institute of Technology Jodhpur,
Jodhpur (India) 342011.

WHEREAS..... (Name and address of the Supplier) (hereinafter called “the Supplier”) has undertaken, in pursuance of contract no..... dated (hereinafter called “the contract”) to supply

.....
....

AND WHEREAS it has been stipulated by you in the said contract that the Supplier shall furnish you with a bank guarantee by a scheduled nationalized bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with and due performance of the contract;

AND WHEREAS we have agreed to give the Supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the Supplier, up to a total of(amount of the guarantee in words and figures), and we hereby irrevocably and absolutely undertake to pay you immediately, upon your first written demand declaring the Supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of(amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the Supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

The Bank guarantee shall be interpreted in accordance with the laws of India. The Guarantor Bank represents that this Bank Guarantee has been established in such form and with such content that is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

The Bank Guarantee shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank or the Supplier. The Bank further undertakes not to revoke this Guarantee during its currency except with the previous express consent of the Buyer in writing.

The Bank declares that it has power to issue this Guarantee and discharge the obligations contemplated herein, the undersigned is duly authorized and has full power to execute this Guarantee for an on behalf of the Bank.

This guarantee shall be valid up to and including the day of, 20.....

.....
(Signature with date of the authorised officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch