

INVITATION FOR TENDER FOR SUPPLY OF EQUIPMENT

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible manufacturers/suppliers or their direct Indian agents for the supply of the following equipment.

AUTOMATIC WELDED WIRE MESH MACHINE

(Refurbished/ demo unit/used instrument or parts is not eligible for bidding)

Please send offers, ALONG WITH DESCRIPTIVE CATALOGUE/ BROCHURE. The validity of the bid should be at least four months (120 days) or more from the date of the opening of this tender. Please ensure that your quotation reaches not later than **16.07.2018 at 15:00 Hrs** at the following address:

**Prof. Satyahari Dey,
Managing Director,
STEP,
Indian Institute of Technology Kharagpur
Kharagpur – 721 302, West Bengal, India**

Earnest money of **Rs. 2,50,000/-** is to be deposited in the form of Account payee Demand Draft in favour of IIT Kharagpur, payable at Kharagpur, India. Any bid which is not accompanied with an EMD shall be summarily rejected. Earnest money deposited will be forfeited if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender. No interest will be paid on the earnest money of the unsuccessful bidders.

Tender Reference	IIT/SRIC/MD/STEP/MPR /EQ-01/18-19, Dated: 31.05.2018
Price of Tender Document	Rs. 1000/-
Last Date and Time for submitting the tender document	16.07.2018 at 15:00 Hrs (Indian time)
Time and Date of Opening of Technical Bids	16.07.2018 at 16:00 Hrs (Indian time)
Place of Opening Tender	Conference Hall, STEP, Indian Institute of Technology Kharagpur Kharagpur – 721 302, West Bengal, India
Address of Communication	As stated above
Contact Telephone Numbers	+91- 3222 – 281090/281091/282247
E-mail	mdstep@hijli.iitkgp.ernet.in

DETAILED TECHNICAL SPECIFICATIONS FOR
AUTOMATIC WELDED WIRE MESH MACHINE

(Refurbished/ demo unit/used instrument or parts is not eligible for bidding)

A) STRAIGHTENING AND CUTTING UNIT – 2 UNITS

1. 1 mtr box conveyor with bottom support
2. Wire capacity from 2.5mm to 6mm
3. Complete wiring with panel board
4. One set of cutting die and punch
5. Straightening die set
6. Complete tool kit for operating the machine

B) AUTOMATIC WELDED WIRE MESH UNIT – 1 UNIT

Working range:

Wire mesh width	Max. 1500 mm
Line wire spacing	25 – 300 mm
Cross wire spacing	25 – 300 mm

Working speed:

The maximum number of strokes of the machine is up to 100 strokes per minute.

Material:

The material should be easily weld-able (MS/ GI/ SS)

Working procedure:

The line wires are pushed by collets from the spools, and cross wires pre-straightened and cut to length are fed to the welding stations by the hopper one after the other automatically.

Cooling arrangement

There will be water cooling arrangement for circulating water in the welding transformers, bus-bars and thyristors.

Cooling Water

In let temperature	Max. 20 degree Celsius
Pressure	4 Bar
Ph value	7 – 8
Dh Value	8
Quantity machine	appx. 120 – 150 ltrs / min.
Control unit	20 – 30 ltrs / min.

Pure, Lime free, Natural to slightly alkaline water.

RANGE OF SUPPLY

1.12 Wire mesh Welding Machine

Body frame.
Top mounted welded assembly (adjustable) carrier.
Magnet carrier with steplessly adjustable cross wire holding magnets.
Advance carriage.
Water installation.
One set of tools for adjustment and maintenance jobs.
One cross wire feeder fitted with the machine body.

1.13 Control Unit

Set up separately from the wire mesh welding machine

Welding Program:

Weld time adjustable 1 – 10 cycles.
Current regulation steplessly adjustable by phase shift.

Power Stage:

Three Thyristor contactors unit with three water cooled power thyristor assemblies.

C) AUTOMATIC WIRE MESH PRESS BREAK UNIT – 1 UNIT

1. Conventional numeric control hydrolic press brake machine with capacity of >50 tons to bend wire mesh sheets of wire diameter 8mm and bed width of 3m.
2. Set of standard die punches for wire mesh tray.
3. Additional set of finger type punch with suitable die for banding 90⁰ angel. The punch and die should be made of high quality carbide steel, and the punch should be adjustable from 60 mm to 3000 mm.

TO BE ARRANGED BY THE BUYER

WATER CIRCULATION UNIT

Water Circulation Unit with incoming & outgoing water line to all water cooled circuit points in the machines.

OUR SUPPLY DOES NOT INCLUDE:

- a) Main electric supply cable to the main distribution box and panel and external wiring from panel to motors / terminals.
- b) Building / lighting / foundation /brick work etc.
- c) All civil engineering works, foundations, foundation bolts tranches etc.
- d) Material handling equipments such as crane etc.
- e) Anything not specifically mentioned in the offer.

INSPECTION:

If desired, material can be inspected at your works after installation.

Source code of all PLC and Micro Controllers used in the machineries should be provided in a compact disk with debugging console in its original form which can be used for debugging equipment when ever require during maintetants.

A backup copy of the same software should be provided in a external hard drive.

N.B. Please quote for latest Models launched by your Principal/Overseas Equipment Manufacturer (OEM). Bid should include a letter (hardcopy) from OEM that the quoted Model is not older than 3 years, and will be in market /spares will be available for at least 5 years. Also, the bidder must have installed successfully at least one such instrument in India (*please provide users name, email id and mobile number for receiving our feedback from the users. Without the users details the technical bid will be considered incomplete.*). Technical bid with ambiguous/incomplete specifications is liable for rejection. Price break up for all major components are essential. Details of space and pre-installation needs are essential. The supply of operation and service manual with circuit diagrams/ trouble shooting guidelines for users are essential.

A Technical cum Purchase Committee will review bids and the firm(s) quoted desirable specifications may be invited for a presentation anytime thereafter. Direct quotation from Principal (hardcopy) is a must before placing order.

All items of the instrument must have Warranty: free 12 months usual + additional 36 months on charge basis. Softwares and Micro Controller must be updated online by the original vendor till 4th year and your quotation must mention it.

SYNOPTIC COMPLIANCE STATEMENT OF AUTOMATIC WELDED WIRE MESH MACHINE

SI No.	<u>Major Desirable Specifications</u>	<u>Compliance *</u>
A. STRAIGHTENING AND CUTTING UNIT – 2 UNITS		
1	1 mtr box conveyor with bottom support	
2	Wire capacity from 2.5mm to 6mm	
3	Complete wiring with panel board	
4	One set of cutting die and punch	
5	Straightening die set	
6	Complete tool kit for operating the machine	
B. AUTOMATIC WELDED WIRE MESH UNIT – 1 UNIT		
1	<p><u>Working range:</u></p> <p>Wire mesh width Max. 1500 mm Line wire spacing 25 – 300 mm Cross wire spacing 25 – 300 mm</p>	
2	<p><u>Working speed:</u></p> <p>The maximum number of strokes of the machine is up to 100 strokes per minute.</p>	
3	<p><u>Material:</u></p> <p>The material should be easily weld-able (MS/ GI/ SS)</p>	
4	<p><u>Working procedure:</u></p> <p>The line wires are pushed by collets from the spools, and cross wires pre-straightened and cut to length are fed to the welding stations by the hopper one after the other automatically.</p>	
5	<p><u>Cooling arrangement</u></p> <p>There will be water cooling arrangement for circulating water in the welding transformers, bus-bars and thyristors.</p>	
6	<p><u>Cooling Water</u></p> <p>In let temperature Max. 20 degree Celsius Pressure 4 Bar Ph value 7 – 8 Dh Value 8 Quantity machine appx. 120 – 150 ltrs / min. Control unit 20 – 30 ltrs / min. Pure, Lime free, Natural to slightly alkaline water.</p>	

7	<p><u>RANGE OF SUPPLY</u></p> <p><u>Wire mesh Welding Machine</u></p> <p>Body frame. Top mounted welded assembly (adjustable) carrier. Magnet carrier with steplessly adjustable cross wire holding magnets. Advance carriage. Water installation. One set of tools for adjustment and maintenance jobs. One cross wire feeder fitted with the machine body.</p>	
	<p><u>Control Unit</u></p> <p>Set up separately from the wire mesh welding machine</p> <p><u>Welding Program:</u></p> <p>Weld time adjustable 1 – 10 cycles. Current regulation steplessly adjustable by phase shift.</p> <p><u>Power Stage:</u></p> <p>Three Thyristor contactors unit with three water cooled power thyristor assemblies.</p>	
C. AUTOMATIC WIRE MESH PRESS BREAK UNIT – 1 UNIT		
1	<p>I) Conventional press brake machine with capacity to bend wire mesh sheets of wire diameter 8mm and width of 3m. II) Set of standard die punches.</p>	
2	<p>TO BE ARRANGED BY THE BUYER</p> <p><u>WATER CIRCULATION UNIT</u></p> <p>Water Circulation Unit with incoming & outgoing water line to all water cooled circuit points in the machines.</p>	
3	<p>OUR SUPPLY DOES NOT INCLUDE:</p> <p>a) Main electric supply cable to the main distribution box and panel and external wiring from panel to motors / terminals. b) Building / lighting / foundation /brick work etc. c) All civil engineering works, foundations, foundation bolts tranches etc. d) Material handling equipments such as crane etc. e) Anything not specifically mentioned in the offer.</p>	
4	<p>INSPECTION: If desired, material can be inspected at your works after installation.</p>	

***Please list major/unique specifications and comment on deviation, if any.**

GENERAL TERMS & CONDITIONS

PLEASE SPECIFICALLY INDICATE THE FOLLOWING POINTS IN YOUR QUOTATIONS AND COMPLY THE TERMS AS MENTIONED HEREUNDER:-

1. TENDERS ARE INVITED COMPLYING THE REQUIREMENT FOR TENDER AS DETAILED IN THE TENDER SPECIFICATION TO BE SUBMITTED IN THE COMPANY'S / FIRM'S LETTERHEAD NEATLY PRINTED / TYPED DULY SIGNED BY AUTHORIZED PERSON WITH THE SEAL OF THE BIDDERS. ALL ENVELOPS CONTAINING THE TENDER SHOULD BE PROPERLY SEALED. SEPARATE ENVELOPS SHOULD BE USED FOR TECHNICAL AND PRICE BID AND INDICATION TO THEIR EFFECT MAY PLEASE BE SUPERSCRIBED ON THE ENVELOP.

THE FOLLOWING DOCUMENTS ARE REQUIRED FROM THE INDIAN AGENTS OF FOREIGN FIRMS:

1.1 FOREIGN PRINCIPAL'S PROFORMA INVOICE INDICATING THE COMMISSION PAYABLE TO THE INDIAN AGENT AND NATURE OF AFTER SALES SERVICE TO BE RENDERED BY THE INDIAN AGENT.

1.2 COPY OF THE AGENCY AGREEMENT WITH THE FOREIGN PRINCIPAL INDICATING THE NATURE OF AFTER SALES SERVICES, PRECISE RELATIONSHIP BETWEEN THEM AND THEIR MUTUAL INTEREST IN THE BUSINESS.

2. TECHNICAL CATALOGUE/LEAFLET SHOULD BE ENCLOSED WITHOUT FAIL. PROVIDE COMPLIANCE STATEMENT WITH RESPECT TO THE TECHNICAL SPECIFICATIONS MENTIONED ABOVE.
3. PLEASE CONFIRM WHETHER YOU ARE AUTHORISED TO QUOTE ON BEHALF OF YOUR PRINCIPALS AND IF SO, PLEASE ENCLOSE A COPY OF SUCH AUTHORISATION WITH YOUR QUOTATION.
4. **PRICE BIDS FOR FOREIGN FIRMS:** PRICES ARE TO BE QUOTED ON 'EX-WORKS' DULY PACKED OR ON "FCA/FOB" INTERNATIONAL PORT" BASIS AND ALSO INCLUDING AGENCY COMMISSION PAYABLE TO YOUR INDIAN AGENTS, IF ANY SHOWING CLEARLY THE FOLLOWING BREAK UP:-

- I) EX-WORKS PRICE
- II) PACKING & FORWARDING
- III) FREIGHT
- IV) ANY OTHER RELEVANT EXPENSES.
- V) TAXES PAYABLE BY THE INSTITUTE

INSURANCE WILL BE PAID BY OUR INSTITUTE SEPARATELY AND SHOULD NOT FORM PART OF THE QUOTED PRICE.

PRICE BIDS FOR INDIAN FIRMS: PRICES ARE TO BE QUOTED ON F.O.R., IIT KHARAGPUR, ON DOOR DELIVERY BASIS CLEARLY SHOWING THE BREAK UP.

5. **PERIOD OF VALIDITY:** BIDS SHALL REMAIN VALID FOR ACCEPTANCE FOR A PERIOD OF 120 DAYS FROM THE DATE OF OPENING.
6. INDIAN AGENTS ADDRESS AND PERCENTAGE OF AGENCY COMMISSION INCLUDED IN ABOVE F.O.B./EX-WORKS PRICE. (THIS WILL BE PAID TO THE INDIAN AGENTS IN INDIAN RUPEES ONLY AND NOT IN **FE**). PLEASE ENCLOSE COPY OF AGENCY AGREEMENT ENTERED INTO WITH YOUR PRINCIPALS INDICATING THE NATURE OF AFTER SALES SERVICES OF INDIAN AGENTS, PRECISE RELATIONSHIP & MUTUAL INTEREST IN THE BUSINESS.

7. **MEASUREMENTS/WEIGHT:** NETT/GROSS OF THE CONSIGNMENT. IN CASE OF AN ORDER, YOU SHALL USE AIR WORTHY PACKAGE (AS APPLICABLE) DULY CERTIFIED WITH DOCUMENTS – PLYTO – SANITARY CERTIFICATE (AS PER QUARANTINE ORDER 2003).
8. **SCOPE OF SUPPLY:** SHOULD INCLUDE FREE INSTALLATION AND COMMISSIONING
9. **PAYMENT TERMS FOR FOREIGN FIRMS**

The offer will be made on a single currency and only one PO will be issued for the entire scope of the supply.

- A) 90% PAYMENT THROUGH SIGHTDRAFT/FORIGN DEMAND DRAFT/LC (EXCEPTIONAL CASES)/SWIFT TELE TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER AND CONDITION AND 10% AFTER SUCCESSFUL INSTALLATION & COMMISSIONING.
- B) BANK CHARGES ON LC/SD (WITHIN INDIA APPLICANT ACCOUNT AND OUTSIDE INDIA TO BENEFICIARY ACCOUNT).

PAYMENT TERMS FOR INDIAN FIRMS

- A) 100% PAYMENT THROUGH CROSSED ACCOUNT PAYEE CHEQUE / ELECTRONIC TRANSFER AFTER RECEIPT OF STORE IN GOOD ORDER & CONDITION AND SUCCESSFUL INSTALLATION & COMMISSIONING.

B) ENSURE MENTIONING

- i) BANK DETAILS OF THE BENEFICIARY, GST NO. AND PAN NUMBER
- ii) FULL NAME AND ADDRESS OF THE BENEFICIARY ON WHOM ORDER HAS TO BE PLACED

10. WHETHER ANY EXPORT LICENCE IS REQUIRED FROM YOUR GOVERNMENT, IF SO, PLEASE CONFIRM WITH DETAILS.
11. COUNTRY OF ORIGIN OF THE GOODS IS TO BE MENTIONED.
12. THE INSTITUTE SHALL PROVIDE THE CONCESSIONAL CUSTOMS DUTY AND EXCISE DUTY EXEMPTION CERTIFICATE AS PER GOVT. NOTIFICATION NO. 51/96 CUSTOMS DATED: 23.07.1996 AND CENTRAL EXCISE DUTY EXCEMPTION IN TERMS OF GOVT. NOTOFICATION NO. 10/97 – CENTRAL EXCISE DATED: 01.03.1997 AS AMENDED FROM TIME TO TIME.
13. **LIQUIDATED DAMAGES:** THE STORES SHOULD BE DELIVERED / DISPATCHED TO DESTINATION AND READY FOR OPERATION NOT LATER THAN THE DELIVERY DATE SPECIFIED. IT THE SUPPLIER FAILS TO DELIVER ANY OR ALL THE STORES OR PERFORM THE SERVICE BY THE SPECIFIED DATE, LIQUIDATED DAMAGES AT 1% PER MONTH OR PART THEREOF IN RESPECT OF THE VALUE OF STORES WILL BE DEDUCTED FROM THE CONTRACT PRICE SUBJECT TO A MAXIMUM OF 5%. ALTERNATIVELY, THE ORDER WILL BE CANCELLED AND THE UNDELIVERED STORES PURCHASED FROM ELSEWHERE AT THE RISK AND EXPENSE OF SUPPLIER.
14. **PATENT RIGHTS:** THE SUPPLIER SHALL INDEMNIFY THE PURCHASE AGAINST ALL THIRD PARTY CLAIMS OF INFRINGEMENT OF PATENT, TRADEMARK OR INDUSTRIAL DESIGN RIGHTS ARISING FROM USE OF THE GOODS OR ANY PART THEREOF IN INDIA.
15. ONLY THOSE BIDDERS WHO'S BIDS HAVE BEEN TECHNICALLY FOUND ACCEPTABLE WILL ONLY BE INVITED FOR PARTICIPATION IN THE PRICE BID.

16. THOSE BIDDERS WHO DO NOT RECEIVE ANY COMMUNICATION FOR PARTICIPATION IN PRICE BID OPENING MEETING MAY PRESUME THAT THEIR BID HAS NOT BEEN ACCEPTED BY THE INSTITUTE.
17. CONDITIONAL OFFER WILL NOT BE ACCEPTED.

18. LATE TENDERS I.E. TENDER RECEIVED AFTER THE DUE DATE AND TIME OF SUBMISSION AS MENTIONED ABOVE SHALL NOT BE ACCEPTED.

19. BIDDERS TO ENCLOSE THE FOLLOWING DOCUMENTS:-

A) INCOME TAX RETURN (3 YRS) AND LATEST SALES TAX RETURN (GST No.), AND PAN NO.

B) BANKER'S SOLVENCY CERTIFICATE

C) SUMMARY OF AUDITED STATEMENT OF ACCOUNTS FOR THE LAST THREE YEARS TO BE ENCLOSED AND FINANCIAL HIGHLIGHTS AND THE KEY PERFORMANCE DURING THE LAST THREE QUARTERS TO BE ENCLOSED AS PER FORMAT:-

COMPANY'S KEY PERFORMANCE

DESCRIPTION	JAN. TO MARCH	APRIL TO JUNE	JULY TO SEPT.
GROSS REVENUE			
PROFIT BEFORE TAX			
PROFIT AFTER TAX			
RETURN ON INVESTED			
CAPITAL (ROIC)			

D) CUSTOMER SATISFACTION CERTIFICATE FROM ONE SUCH ORGANIZATION IS TO BE ATTACHED WITH THE TECHNICAL BID AND PRICE BID.

E) NAME AND ADDRESS OF MINIMUM THREE CLIENTS TO WHOM SUCH EQUIPMENT HAVE BEEN SUPPLIED SHOULD BE MENTIONED.

20. **WARRANTY / GUARANTEE:** THIS COMPREHENSIVE WARRANTY / GUARANTEE SHALL REMAIN VALID FOR **48 MONTHS** AFTER THE GOODS (OR ANY PORTION THEREOF AS THE CASE MAY BE) HAVE BEEN DELIVERED AND COMMISSIONED TO THE FINAL DESTINATION.

21. THE INSTITUTE DOES NOT BIND ITSELF TO OFFER ANY EXPLANATION TO THOSE BIDDERS WHO'S TECHNICAL BID HAS NOT BEEN FOUND ACCEPTABLE BY THE EVALUATION COMMITTEE OF THE INSTITUTE.

22. ALL TENDERS (UNLESS OTHERWISE SPECIFIED) ARE TO BE SUBMITTED / HANDED OVER TO **MANAGING DIRECTOR, STEP, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR - 721 302** AND ACKNOWLEDGEMENT TO BE OBTAINED.

IMPORTANT

1. IIT Kharagpur authority may accept or reject any or all the bids in part or in full without assigning any reason and does not bind itself to accept the lowest bid. The Institute at its discretion may change the quantity / upgrade the criteria / drop any item or part thereof at any time before placing the Purchase Order.
2. Promptly make arrangements for repair and / or replacement of any damaged item (s) irrespective of settlement of claim.
3. In case of any dispute, the decision of the Institute authority shall be final and binding on the bidders.
4. For any query pertaining to this bid document correspondence may be addressed to **PROF. SATYAHARI DEY, MANAGING DIRECTOR, STEP, INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR, KHARAGPUR - 721 302** , at the address mentioned above.

LAST DATE FOR SUBMISSION OF SEALED BIDS: 16.07.2018 AT OR BEFORE 3.00 PM

- 1) Please Note that the Institute remains closed during Saturdays & Sundays and all specified government holidays.
 - 2) Fax, e-mail Tender will not be accepted.
 - 3) The General Terms and Conditions as stated above relate to supply of stores / equipment /assets etc. and for specific service other terms and conditions of the Institute will apply.
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