

एमएसएमई विकास संस्थान (शाखा डीआई)

सूक्ष्म, लघु, 0 मध्यम उद्यम मंत्रालय

भारत सरकार

386, पटेल रोड, रामनगर

कोयंबटूर, तमिलनाडु - 641 009 (भारत)



MSME - Development Institute (Br. DI)

Ministry of Micro, Small & Medium Enterprises

Government of India

386, Patel Road, Ramnagar

Coimbatore, Tamil Nadu – 641 009 (India)

F.No. BIC/29/2021-22/EMTL&PUMP LAB/TECH

Dt. 17.02.2022

To

Sub : Tender for Purchase of Electromagnetic Flow Meter – reg.

Sir / Madam,

Last date/time of submission of Tender : 24.02.2022 at 1400 hrs

Date/Time of Opening of Tender : 24.02.2022 at 1500 hrs

Quotations (duly sealed & properly superscribed) are invited under Single Bid System as per the given specifications of the item(s) enumerated in Part 1. For General Conditions, please refer to Part II attached. It is hereby requested to submit the duly signed and sealed (on all pages) bid document before the last date/time for submission of the tender.

Encl: BID Document No 2021-22/LTE/02 dated 17.02.2022

Yours faithfully

(M.Palanivel)

Joint Director

Br.MSME DI Coimbatore

BID DOCUMENT NO : - 2021-22/LTE/01 dated 17.02.2022

Bid Duration : - From 17.02.2022 to 24.02.2022

Last date for participation: - 24.02.2022 14.00 Hrs

PART – A

Required Items : -

<i>Sl.No</i>	<i>Item Description</i>	<i>Quantity</i>
1	ELECTROMAGNETIC FLOW METER – SIZE-25 MM	01 Nos
2	ELECTROMAGNETIC FLOW METER – SIZE-32 MM	01 Nos
3	ELECTROMAGNETIC FLOW METER – SIZE-50 MM	01 Nos

Purpose : - For Pump Testing Lab – To measure flow of water as per IS Standard

- | | |
|--------------------|-------------------|
| a) IS 9283 : 2013 | e) IS 9079 : 2018 |
| b) IS 8472 : 2019 | f) IS 8034 : 2018 |
| c) IS 12225 : 1997 | g) IS 6595 : 2018 |
| d) IS 14220 : 2021 | |

TECHNICAL SPECIFICATION ELECTROMAGNETIC FLOW METER

		SIZE-25 MM	SIZE-32 MM	SIZE-50 MM
Operating Range	:	0 to 5 LPS	0 to 8 LPS	0 to 20 LPS
Minimum Conductivity	:	5 Microsiemens	5 Microsiemens	5 Microsiemens
Testing Medium	:	Water	Water	Water
Lining Material	:	PTFE	PTFE	PTFE
Accuracy	:	± 0.5% FSR	± 0.5% FSR	± 0.5% FSR
Pressure	:	Max 20 Bar at 40°C Max 15 Bar at 100°C	Max 20 Bar at 40°C Max 15 Bar at 100°C	Max 20 Bar at 40°C Max 15 Bar at 100°C

Display	:	16 Character Backlit dot Matrix LCD	16 Character Backlit dot Matrix LCD	16 Character Backlit dot Matrix LCD
Keyboard	:	5 Key Sealed Tactile	5 Key Sealed Tactile	5 Key Sealed Tactile
Sensor Excitation	:	Provided from Transmitter	Provided from Transmitter	Provided from Transmitter
Memory	:	Non Volatile Eeprom	Non Volatile Eeprom	Non Volatile Eeprom
Units	:	LPS, LPM, LPH	LPS, LPM, LPH	LPS, LPM, LPH
Totalizer Range	:	255 Million, 999999 Liters	255 Million, 999999 Liters	255 Million, 999999 Liters
Calibration	:	Digitally Programmable	Digitally Programmable	Digitally Programmable
Pipe Diameter	:	Digitally Programmable	Digitally Programmable	Digitally Programmable
Supply Voltage	:	220 – 240V, 50HZ	220 – 240V, 50HZ	220 – 240V, 50HZ
Output Ports	:	RS232C PORT	RS232C PORT	RS232C PORT
Size	:	25mm	32mm	50mm
Type of Built	:	Separate sensor unit & Display unit (Non integrated type)	Separate sensor unit & Display unit (Non integrated type)	Separate sensor unit & Display unit (Non integrated type)
Warranty	:	One Year	One Year	One Year
Other Requirements	:	Calibration report for the instrument	Calibration report for the instrument	Calibration report for the instrument

PART - B

OVER SPEED TEST EQUIPMENT – GENREAL CONDITIONS

1. Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address : **Branch MSME Development Institute Coimbatore 386, PATEL ROAD RAM NAGAR COIMBATORE TAMILNADU.**
2. **Data Sheet** of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered.
3. Scope of supply (Bid price to include all cost components) : Supply of Goods only,
4. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
- 5. Period of Delivery : 07 Days from the date of order**
6. Installation, Commissioning, Testing, Configuration, Training (if any - whichever is applicable as per scope of supply) is to be carried out by the OEM only.
7. In case of suppliers other than OEM , the authorized dealer certificate issued by the OEM to the supplier must be attached.
8. Purchase Preference (Centre) : Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such

Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

9. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document and Corrigendum if any.
10. Warranty period of the supplied products shall be one year from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. Warranty inclusive of the instrument & accessories. The seller should guarantee the rectification of goods in case of any break down during the guarantee period.
11. If you are unable to offer, please return this tender to this office suitably endorsed.
12. Your offer should be delivered to this office in **sealed cover** before 14.00 Hrs. on due date of opening of quotation.
13. The validity of the offer should be up to 90 days in respect of this tender. In the absence of period of validity being mentioned in your offer, it will be assumed that your offer conforms to the validity asked for in this inquiry.
14. No advance payment will be made. Payment will be made within 21 days from the date of receipt of clear invoice/bill after satisfactory completion of work.
15. Supplier shall ensure that the Invoice is raised in the name of "JOINT DIRECTOR Br MSME DI Coimbatore"
16. Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regard.
17. In case of non acceptance of goods after delivery, the seller shall take back the goods from the buyer at his own cost.

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F.No. BIC/29/2021-22/EMTL & PUMP LAB/TECH

Dt. 17.02.2022

To

Sub : Tender for Purchase of Overspeed Test Equipment – reg.

Sir / Madam,

Last date/time of submission of Tender : 24.02.2022 at 1400 hrs

Date/Time of Opening of Tender : 24.02.2022 at 1500 hrs

Quotations (duly sealed & properly superscribed) are invited under Single Bid System as per the given specifications of the item(s) enumerated in Part 1. For General Conditions, please refer to Part II attached. It is hereby requested to submit the duly signed and sealed (on all pages) bid document before the last date/time for submission of the tender.

Encl: BID Document No 2021-22/LTE/01 dated 17.02.2022

Yours faithfully

(M.Palanivel)

Joint Director

Br.MSME DI Coimbatore

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Bid Duration : - From 17.02.2022 to 24.02.2022

Last date for participation: - 24.02.2022 14.00 Hrs

PART - A

OVER SPEED TEST EQUIPMENT – TECHNICAL SPECIFICATION

Quantity Required :- 01 No.

Technical Specification Required:

A. Input to the Over Speed Test Equipment

1. 3Phase, Unbalanced Supply Voltage @~415V / ~50 Hz
2. Input terminals shall be concealed in the enclosure. Cable entry relief must be provided at the rear side of the enclosure. The buyer will provide a 3phase industrial plug and socket (of suitable rating) however the equipment manufacturer must provide the input cable or suitable cross section & length.

B. Specifications of the Over Speed Test Equipment

1. Must have a ON/OFF Switch coupled with RYB input Indication light
2. Must have necessary Short Circuit / Over load protection (3Phase MCB / fuse)
3. Must have a 3phase – IGBT based VFD Controller of suitable Power Rating / Current Carrying Capacity to meet the speed / power / current requirements of the motor under test
4. The Make / Model of VFD must be specified
5. The equipment must be able to control the speed of the motor as per the requirement. Must have Speed Up / Speed down controls coupled to the VFD.
6. Must be able to perform the over speed test as stated in the standards given below
 - a) IS 12615 : 2018 - Clause 16.3.4
 - b) IS 15999 (Part1) : 2021 / IEC 60034-1 : 2017 – Clauses 9.6 & 9.7
 - c) IS 7538 : 1996 – Clause 27.1 & 27.2
7. The VFD controller must have a suitable switching frequency to match the duration of the over speed test requirement & for the appropriate response during speed up / speed down signals.

8. The over speed test shall be carried out in no load condition only.
9. Sequence of the test
 - a) Main Switch On
 - b) Start the motor at rated voltage / frequency. (using Start Motor Push Button)
 - c) Operator measures the speed using tachometer. Manually calculates the over speed value for the test.
 - d) Operator increments / decrement the Speed by manual input as required in steps to slowly reach the speed to the over speed test value.
 - e) Once reached the Over speed test value operator immediately pushes the start timer for over speed test.
 - f) After completion of the requisite time the system switches of the power to motor.
 - g) Test completed.
10. Must have a 3 Phase Power quality Analyzer along with NABL certification
11. Must be able to control the speed of the motor in small increment steps (upto 1% of its rated speed)
12. Must have programmable timer coupled with On / Off contactor. Must be able to set the auto cut off time for the over speed test.
13. Emergency stop push button
14. Suitable enclosure with
 - a) Caster Wheels
 - b) Ventilation and cooling fans as required

C. Output : - Motor subjected to Over speed Test

- a. Motor power / current / speed ratings as per IS 12615 : 2018 -
Table 1 to Table 4 Values of Performance Characteristics of Line Operated a.c. Motors
Rated Output Power in the table 1 to table 4 shall be limited from 0.12kW to 15 KW only (~20HP).
- b. Motor power / current / speed ratings as per IS 7538 : 1996 -
Table 1 to Table 6 Values of Performance Characteristics of Three-Phase Induction Motors

- c. The output terminals may be concealed within the enclosure or provided in the front side of the enclosure as desired by the buyer

D. Installation & Acceptance

The seller must install the machine at the Electrical Motor Testing Lab – Br MSME DI Coimbatore at their cost. The equipment will be accepted only if it possible to demonstrate the over speed test as per the test clauses stated above, on the motor of

- i. minimum power requirements
- ii. maximum power requirements
- iii. minimum speed requirements
- iv. maximum speed requirements.

At the time of installation, motors for demonstration purpose may be provided by the buyer (if required).

PART - B

OVER SPEED TEST EQUIPMENT – GENREAL CONDITIONS

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2. **Data Sheet** of the product(s) offered in the bid, are to be uploaded along with the bid documents. Buyers can match and verify the Data Sheet with the product specifications offered.
3. Detailed **operating manual** for the test equipment must be supplied at the time of delivery.
4. Delivery period from the date of purchase order : - **14 days**. If the Seller fails to deliver the Goods within the delivery period specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, @ 0.5% per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value without any controversy/dispute of any sort whatsoever.
5. Scope of supply (Bid price to include all cost components) : Supply Installation Testing Commissioning of Goods and Training of operators
6. Scope of supply includes **Training**: Number of employees to be trained 2 , Place for Training Br. MSME DI Coimbatore and Duration of training 1 days.
7. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
8. Installation, Commissioning, Testing, Configuration, Training (if any - whichever is applicable as per scope of supply) is to be carried out by the OEM only.
9. Purchase Preference (Centre) : Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders

are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

10. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document and Corrigendum if any.
11. Warranty period of the supplied products shall be **three** years from the date of final acceptance of goods or after completion of installation, commissioning & testing of goods (if included in the scope of supply), at consignee location. Warranty inclusive of the instrument & accessories. Warranty must be onsite. The seller should guarantee the rectification of goods in case of any break down during the guarantee period.
12. If you are unable to offer, please return this tender to this office suitably endorsed.
13. Your offer should be delivered to this office in **sealed cover** before 14.00 Hrs. on due date of opening of quotation.
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