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भारत सरकार
Government of India
कृषि एवं किसान कल्याण मंत्रालय
Ministry of Agriculture and Farmers Welfare
कृषि, सहकारिता एवं किसान कल्याण विभाग
Department of Agriculture, Cooperation and Farmers Welfare
दक्षिणी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान
Southern Region Farm Machinery Training and Testing Institute
ट्रैक्टर नगर, गार्लदिन्ने – 515 731, जिला: अनंतपुर (आं. प्र.)
Tractor Nagar, Garladinne- 515 731, District: Anantapur (A.P.)
[An 9001:2015 CERTIFIED INSTITUTE]

File No. 10-04/2018-CPS

Dated: 11th September, 2018

TENDER NOTICE

Sealed Two Bid Tenders namely Technical Tender & Commercial Tenders are invited by the Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne, Dist. Anantapur (A.P.) from ISO certified manufacturers/agencies or experienced/reputed firms to supply and install the following machinery/equipment/items. The items to be supplied must be exactly as per the requirement of cited Indian Standards/ISO/other relevant standards/our requirements.

Sl. No.	Description	Quantity	Objective
1.	SMOKE LEVEL METER as per the Specification Sheet enclosed	One No.	To carryout smoke test of Diesel engine in accordance with IS:12062-1987

- All tenders must be submitted in the prescribed tender format only, otherwise, these are liable to be rejected by the Institute.
- Tenders should be submitted in sealed covers super scribing the Tender No, Item SI. No., and Due Date. **Two bid system will be followed.**
- The Tender document can also be downloaded from www.srfmtti.dacnet.nic.in or cpp portal.
- The Last date and time for receiving of tenders duly filled will be **03.10.2018 10.00 A.M.**
- The Technical tenders shall be opened **on 04.10.2018 at 11.00 A.M.**
- The tender received after due date will not be considered at all.
- The commercial tenders of only those firms whose technical specifications are found suitable will be opened in due time.
- As no courier services are available at this Institute, the tenders should be send through Registered post only or otherwise tenders can be put in the prescribed Tender Box personally at this Institute.
- The Director, reserves all rights to cancel any or all the tenders without assigning any reason whatsoever.

(P.KAMALABAI)
Senior Agricultural Engineer
For DIRECTOR

TERMS AND CONDITIONS

1. The tender is to be submitted in two parts i.e **TECHNICAL AND COMMERCIAL TENDER**, separately in two sealed envelopes. The sealed envelopes subscribing **Technical or Commercial tenders item No.** containing Technical & Commercial tenders should be put in another large envelopes subscribing “**Technical and Commercial Tender**” **item No.** for which rates quoted should be addressed to the Director, Southern Region Farm machinery Training & Testing Institute, Tractor Nagar, Garladinne, Dist. Anantapur (AP) 515731, The tender should reach this office by registered post or can be deposited in person on or before the due date and time , which is **03.10.2018 10.00 A.M.**
2. **Technical Tenders:** This tender should indicate rates technical specifications/ details of the offered equipment only.
3. **Commercial Tender:** This tender will indicate rates and commercial terms & conditions. The rates should invariably be quoted for delivery at F.O.R destination at site basis i.e at Southern Region Farm Machinery Training & Testing Institute ,Tractor Nagar, Garladinne, Dist. Anantapur (AP) inclusive of packing, forwarding, freight and duly insured. The purchaser will not pay separately for the stores till destination. Taxes, duties and other charges on the above rates if any, should clearly indicated along with commercial bid.
4. The manufacturers are requested to deposit the Bid security of 5% for which the rates have been quoted by them along with commercial tender, in the form of crossed non-interest bearing demand draft drawn on State Bank of India, payable at Anantapur (A.P)(code 0806) and in favour of Director, Southern Region Farm Machinery Training & Testing Institute, Tractor Nagar , Garladinne dist. Anantapur (AP).
5. Price of the material to be offered should be firm and fixed and is to be F.O.R Destination SRFMT&TI, Anantapur (AP) basis, indicating all taxes and duties.
6. The transit insurance will be the responsibility of the supplier and no separate charges will be paid for it.
7. The validity of tender should be for minimum six months from the date of submitting the tender and it must be expressed and specifically indicated in tender.
8. The time limit for supply of the machinery/equipment/items should be indicated in the tender. The items ordered shall be supplied within the stipulated time mentioned in the Supply Order.
9. **The Director, Southern Region Farm Machinery Training & Testing Institute does not pledge to accept the lowest tender and reserves the right for accepting any tender at his discretion.**
10. It may be noted that the dates of opening of technical and commercial tenders are different as indicated below and that commercial tenders of only those firms whose technical tender have been found suitable will be opened on in due time and the remaining tenders shall be returned un-opened. You are requested to bear in mind the normal terms and conditions.
11. For pre-bid consultation, if required by any one, may be consulted at this Institute.
12. **Failure and termination:-**
 - a) If the supplier fails to supply of the required equipments within the prescribe period, Director, S.R.F.M.T.&T.I, Garladinne may without prejudice to his right recover damages for breach of the contract or damages occurred during supply of equipments. If any equipment/stores or part thereof is found to be below the required specifications or different as mentioned in the quotation, it will be summarily rejected and returned to the supplier at his expenses. If rejected material is not lifted within one month from the date of issue of the communication of rejection, the supplier will have to bear demurrage charges at the rates prescribed by rules.
 - b) Late tender and tenders prescribing any departure from the conditions set forth above will not to be considered.
 - c) Any dispute, arising out of the supply order will be subject to the exclusive jurisdiction of the competent court at Anantapur (AP).

13. **No negotiation will be carried out:** However, the Director, reserves the right to resort to negotiation on price after completing the evaluation of commercial bids under exceptional case where it is observed that price variation is abnormal. Therefore, supplier may quote their firm and final price.
14. Commercial bids will be opened in the presence of the bidder who wishes to be present on the date and time fixed as mentioned in the tender notice
15. Commercial bids prescribing any departure from the conditions set forth; conditional and also PRIMA FACIE ambiguous will be rejected.
16. **The Director, Southern Region Farm Machinery Training & Testing Institute, Garladinne Dist Anantapur (AP) reserves the right to cancel any or all the tenders and also to cancel the entire process without assigning any reason whatsoever.**
- 17 **Installation and Commissioning**

The machinery /equipments offered to be installed and commissioned in the Institute by the supplier.

Spare parts:
Set of spare parts as per supplier's recommendation to be quoted separately.

Manuals:
*Supplier to provide operators/ instruction manuals/spare parts catalogue, calibration certificate (wherever applicable) and accessories.
- 18 **Training of personnel:**

Training to be provided on site during installation/Commissioning especially for instrumentation related personnel. Also during Installation and Commissioning supplier should give the training to minimum two engineers about system theory and description, operating function and instructions, calibration, diagnostics, instrument and system maintenance, safety precautions and general repair/ servicing for each & every items offered by the Institute.
- 19 **Warranty and servicing:**

Warranty term should be minimum 12 months from the date of satisfactory installation & commissioning.

The Supplier will have to provide warranty, servicing/ annual maintenance contract for smooth trouble free operation of above equipment throughout their working life (Working life to be specified in terms of working hours).

Technical Specifications of Diesel Smoke Level meter

Compliance Standard	:	CMVR Rule 115A Sub Rule 2&3
Other Standard	:	ECE-R24 & ISO 3173
Approval(with Current Validity)	:	A.R.A.I., Pune
Results compatibility	:	Measurement results to be fully compatible with Hat-ridge Smoke Units (HSU)

	Opacity	Light absorption coefficient(m ⁻¹)	Rpm	Oil temperature
* Measuring range	0-100%	0-99.99 ⁻¹	400-6000 rpm	0-150°C
*Accuracy	±1% of full scale	Better than ± 0.01 m ⁻¹	± 10	± 2°C
* Resolution	0.1%	0.01 m ⁻¹	± 1	± 1°C

Test procedure	:	In accordance with IS:12062-1987.
Application	:	Free acceleration and steady state condition
Calibration	:	Automatic (self-calibration immediately after switch-on or at the press of a key).
Display	:	Digital
• Standard	:	LED (7 segment), 4x15 (mm)
• Optional	:	LCD
Alarming Signal	:	Equipment is not working
• Voltage	:	LED lights up when battery supply is less than 11.5 V or Defective Voltage supply, to equipment's integral supply unit.
• Pressure	:	LED lights up when measurement chamber pressure deviates from ambient air pressure by ±75 mm of water (750 pa).

<ul style="list-style-type: none"> • Temperature 	:	LED lights up when Temperature of measuring chamber is below 70°C.
Linearity check	:	48.4%-53.1%/1.54 m ⁻¹ – 1.76 m ⁻¹ of measurement.
<ul style="list-style-type: none"> • Standard • Optional 	:	Automatic
	:	Manual
Probes	:	Set of probes of three different size (10, 16 & 27 mm internal diameter), to cater all size of exhaust pipe.
Smoke inlet	:	Through a control valve
Smoke temperature at entrance	:	250°C
Measuring chamber		
<ul style="list-style-type: none"> • Length • Heating • Heating time • Operating temperature 	:	430± 5 mm
	:	Thermostatically controlled
	:	20 min. (max.) at 220 V supply
	:	90°C
Light source	:	Green LED 1 watt/Halogen Lamp(12 V/5W)(color temperature :3000±150K)
Sensor	:	Photo diode/Selenium Photocell
Built-in Printer	:	Dot matrix printer, 24 column
Built in RTC	:	Prints Real Date and time on print out
Power supply	:	190...240 V AC, 50... 60 HZ, 2.5 A 11.5...36 V DC
Ambient Operating Conditions		
<ul style="list-style-type: none"> • Temperature • Humidity 	:	0 – 50°C
	:	90% at 50°C (non-condensing)
Operating unit		
<ul style="list-style-type: none"> • Standard • Optional 	:	LED Remote (with 5 m connecting cable)
	:	LCD Remote (with 5 m connecting cable)
Storage temperature	:	-30°C to 65°C

Insulation Protection Type : IP 52

Computer interfacing : Data communication to a Computer or Terminal or other Compatible devices is possible through built-in SERIAL IN/OUT SOCKET (RS-232 Interface)

: Start of operation and its remote controlling is also possible via Computer or Terminal or other Compatible devices.

Unit weight : 20 to 25 kg, approx

Essential Features :

- It should be designed for all test procedures (free acceleration and steady speed test).
- Measurement results are fully compatible with Hatridge smoke units (HSU).
- Power supply : mains or battery (to use on UPS for regulated power supply).
- Warning LED's for incorrect measurement conditions (pressure, temperature, input voltage) with alarm annunciation facility.
- Automatic self-calibration checks facility immediately after switch-on or at the press of a key inbuilt.'
- It should comply with ECE Regulation 24 and ISO 3173.
- All measurement heads that is not susceptible to soiling ensures high operational reliability.
- Thermostatically controlled heating of measurement chamber prevents condensation.
- Automatic self-test (at switch ON).
- Built-in linearity check as functional test for the system.
- Remote operating unit with built in digital display permits operating from driver's cab.
- Mobile unit with trolley as standard equipment.
- Separate units (control unit & measuring unit) to protect the electronic circuits from direct smoke.
- Serial interface - RS-232
- Built-in printer
- Built-in RTC
- Oil Temperature Measurement
- Engine rpm measurement.