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TROPICAL FOREST RESEARCH INSTITUTE
Indian Council of Forestry Research & Education
(An autonomous Council under the Ministry of Environment & Forests, Govt. of India)
P.O. – R.F.R.C., Mandla Road, Jabalpur – 482 021.

TENDER FOR SCIENTIFIC EQUIPMENTS

Tender No.15- 4/Tender/Sci.Equi/2013-14/

Dated of the issue: / /2013

ENCLOSURES

1. Tender Notice
2. Tender Form
3. Specifications for Scientific Equipments
4. Conditions of Tendering for supply & Scientific Equipments of material

Tender document Sl.No.....issued to M/s.....
.....
.....
.....

Cost of Tender documents Rs.....received in cash/vide D.D./ Bankers
Cheque No.....dated.....drawn
on

Signature and seal of the issuing Officer

Tender for SE/13-14/rkd/doc/3



उष्णकटिबंधीय वन अनुसंधान संस्थान

TROPICAL FOREST RESEARCH INSTITUTE

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TENDER NOTICE FOR PROCUREMENT OF SCIENTIFIC EQUIPMENT

Advertisement No. 15-4 /13-14/Scient.Equip/TFRI/JBP.....

Sealed tenders are invited from reputed firms for the supply of

1. HPLC
2. ANALYTICAL BALANCE (SARTORIUS ME36S)
3. HIGH PRECISION BALANCE
4. 20 HP POLDER PUMP.

Tender Fee	:	Rs.250.00 (Non Refundable)
		Cash/DD/Banker's Cheque Favour of
		Director, Tropical Forest Research Institute,
		Jabalpur
Issue of Tender starts from	:	10 AM 27 /05 /2013
Issue of Tender ends on	:	1 PM 12 / 06 /2013
Last date of submission of tender	:	1.00PM 12 / 06 /2013
Opening of tender	:	3.15PM 12 / 06 /2013

Note: Tender document is also available on our website <http://tfri.icfre.gov.in>

Director
Tropical Forest Research Institute
Jabalpur

To,

The Director
Tropical Forest Research Institute
P.O. R.F.R.C., Mandla Road
Jabalpur

Sub: Tender for Scientific equipments

Ref: Your Advertisement Published In the Dainik Bhasker
& Hindustan Times on.....

The undersigned hereby tenders and offers (subject to Institute's conditions of tendering) to the Tropical Forest Research Institute, Jabalpur to supply the Scientific equipments as described in the enclosures with details of specifications in good condition.

It is certified that the specifications of Scientific equipments and all other conditions wherever described in the tender document, have been replied in full, giving clear details. The decision given by the institute in this regard will be final. It is also understood that the tenderer (in case of interpretation) will have no right to furnish any technical or commercial clarification after opening of the tender.

Date.....

Tenderer's signature with date

Name of the Tenderer

Address

SUBMIT THE FORM DULY FILLED IN SEALED COVER MENTIONING DATE OF OPENING OF THE TENDER

TENDER FORM

1. Name and full address of the tenderer with
telephone/fax number (if any)
.....

2. (a) If the tenderer is an authorized dealer of a
company give detailed information of authorization
(Dealer certificate should be enclosed)

- (b) Sales tax/Commercial tax Registration

- © If registered as Contractor/Supplier of specific
equipment with any Central/State Govt. department
give details

- (d) Income tax clearance certificate (copy to
be enclosed)

- (e) Whether registered with
(i) D.G.S. & D
(ii) Small Scale Industries Corporation
(iii) National Small Scale Industries Corp.,
Etc. If any, copy of the same should be
Submitted to claim exemption from EMD(

3. Validity Period (not less than 120 days)

4. Delivery Period to be specifically mentioned.

5. Whether Proprietary Item? If yes, enclose the certificate

YES	NO
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6. Details of offer

S.No	Name of Item	Specificati on with make	Unit Price	Taxes & Duties (mention)	Other charges if any (mention)	Total unit cost (for TFRI, Jabalpur)

Tender for SE/13-14/rkd/doc/7

Signature of Tenderer

7. Accessories if any (To be mentioned clearly)
8. Gaurantee/Warrantee of the item
9. Enclosures
 - (i) EMD
 - (ii) Catalogues
 - (iii) Registration Certificate
 - (iv) Income Tax Clearance Certificate
 - (v) Sales Tax / Professional Tax Certificate
 - (vi) Octroi etc. if paid (proof required)
10. Any other relevant information.....

Signature of the tenderer with stamp

**1. SUPPLY OF ANALYTICAL BALANCE (SARTORIUS ME36S)
(SILVA)**

EMD - RS. 6000.00

Description and specification of the items
<p>Analytical Balance (Sartorius ME36S)</p> <p>Specifications:-</p> <p>ME36S microbalance features an exceptionally high weighing capacity of 31 g and a readability of 1 µg. The ME36S is designed for weighing the smallest sample quantities even in relatively heavy or bulky sample containers.</p>

2. SUPPLY OF HIGH PRECISION BALANCE

EMD - RS. 2000.00

Description and specification of the items
<p>HIGH PRECISION BALANCE</p> <ul style="list-style-type: none"> - Cap. 0.001 – 500gm. - Readability/Accuracy(+/-): 0.001 gm - Linearity: 0.002 gm, pan size : 100 mm - Multiple weighing unit, Black Light - LCD display, Poly fraction: % - Weighing counting, fill mode, GSM. - Standard bi directional RS-232 Interface.

3.SUPPLY OF HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC SYSTEM)

EMD - RS. 125000.00

Description and specification of the items
<p>1. HIGH PERFORMANCE THIN LAYER CHROMATOGRAPHY (HPTLC SYSTEM)</p> <p>Specifications:-</p> <p>A. HPTLC System manager- Software to control , document and manage all the instrumental steps of HPTLC analysis including development , scanning and</p>

photodocumentation, communicates in both directions with connected instruments. 32 bit per analysis upgradable. For creating and storing methods. Single report per analysis.

- B. Semi automatic spot/band applicator:- Sample spot/band applicator – quantitative analysis, micro-preparative isolation, in-situ addition of internal standard or reagents, and superimpose . 10- method memory storage, stand-alone or system manager controlled. Sample positioning on X & Y axis freely selectable, variable rate of delivery, 100 µl syringe for analytical work & 500 µl syringes for micro-prep active work. Self diagnostic + Link to system manager built-in.

For Semi-Automatic applicator (B)- Analytic sample syringe- 100µl (qty 2)

- C. Chromatogram development Chambers:- all glass, small internal volume chambers, bottom divided into two halves; maximum 5-15 ml mobile phase/run, S.S. leak-proof lid. Appropriate size chambers for 20x20, 20x10, 10x10 cm plates.
- D. Photo Recording UV Cabinet:- Dual wavelength 254 + 366 nm UV Cabinet with a digital camera mount. Enables to inspect the plate as well as keep a record by photodocumentation. Images transferrable to PC. 100% safe to eyes. Auto shut off. Flickerless illumination. Guaranteed illumination intensity with digital camera.
- E. 20 x 10 cm Dip Tank with Lid for Derivatization.
- F. TLC Scanner with data Evaluation:- Computer controlled Scanner/Densitometer for automatic spectrum scanning for identity check as well as purity check; Automatic quantitative measurement by absorbance & fluorescence. All TLC/HPTLC plate sizes acceptable; scan speed 100 mm/sec @ 25 µm resolution; wavelength range 190-900 nm; Monochromator flushing by nitrogen; data sampling rate-4000/sec; special optics for HPTLC measurement ; Spectrum scan speed 100 nm / sec; Max 999 spectra / plate; Visible pilot slit image / scan compartment illumination with UV to check sample alignment with scan beam; D2, Hg, W lamps + self diagnostic + Service dialog + Universal filter for fluorescence all built-in; scan slit size variable; bandwidth selectable 5 or 20nm; plate can be easily placed inside scanner. Small footprint. Data evaluation 32 bit software (latest version), Improved S/N ratio. Improved reproducibility; Controlled by System Manager, Automatic / Manual integration, Auto baseline correction. Spot check facility. 3D display with data storage. Calibration - single level, multilevel, linear / non-linear. Statistics CV / CI. Reproducibility check facility. Auto calculation of data from wts and dil. factors , Computer generated random no. for each report (GLP compliance). Lamp use tracking. 2 level digital user manual. Service Dialog + self Diagnostics + Tutorial all built – in. Meets GLP. Optional IQ-OQ and 21 CFR Rule 11 certification.

ACCESSORIES AND OPTIONS:

G. Professional TLC/HPTLC Photodocumentation System under GLP:
Professional TLC/HPTLC Photodocumentation System, comprising:
Illumination unit, industrial camera and HPTLC specific software.

Illumination unit – with 254 + 366 nm UV. Visible light (above & below object). Uniform illumination. 60 KHz supply for instant, flickerless illumination. Easy access for changing tubes & filters and PCB. Auto switch off. Total darkness. Viewing window to see plate safety-UV switched off if door opened.

Camera 12 bit, high resolution industrial camera (4096 grey level resolution). Images of the highest quality. Fixed focus for total reproducibility. The colours capture. Very linear response. Individually calibrated.

HPTLC Specific Software:- Automatic image optimization. Automatic exposure time to suit brightest zone within dynamic range of CCD. Full function annotation. Rf Scale, Child image with or w/o ROI (Region of Interest) blow up. Auto image capture at 254 nm and or 366 nm and or white light. Raw data inaccessible to user. Spot application tool to detect faintest fractions. High speed data transfer 1 sec/image. Link to system manager.

OPTIONS FOR PROFESSIONAL TLC/ HPTLC PHOTODOC (G)

Option A :- Optional Professional Image Enhancement software for IQ-QQ, performance check, clean plate correction, image averaging, white adjust and flat field corrections.

Option B:- Image comparison viewer software. Allows comparison tracks from different plates under GLP.

H. OPTIONAL SOFTWARE FOR SCANNER

Option H.1:- Multi wavelength evaluation:- Measures, stores and calculates automatically quantitative results from upto 31 wavelength. Data stored & 3-D displayed in 3 ways. Colour plots of data. Automatic quantification with respect to \square max as well as Rf. A must for creating searching libraries of

spectra . easy to use.

I. AUTOMATIC DEVELOPING CHAMBER WITH HUMIDITY CONTROL

Automatic Developing Chamber for fully automatic development of TLC/HPTLC plates 20 x 10 cm and 10 x 10 cm (glass, plastic, aluminium) . Stand- alone mode or system manager control. Development in 20 x 10 cm TT chamber, solvent front detection by CCD . Activity and preconditioning of the layer, chamber saturation, developing distance and final drying can be pre-set and automatically controlled . Sensor monitored “ Humidity control” of layer allows reproducible chromatography at defined activity of the layer. 10 methods storage.

J. AUTOMATIC TLC SPRAYER

Pneumatic cordless TLC sprayer with rechargeable batteries. Non- clogging very fine uniform spray. Resistant to corrosive reagents. With accessories

K. TLC/HPTLC PLATE HEATER

Stain resistant ceramic glass top; temp range 25 to 200 °C . Uniform heating of plate. Digital display of set & actual temp. Display on as long as plate is hot. Upto 20 x 20 cm size plates.

4.SUPPLY OF 20 HP POLDER PUMP (OIL LUBRICANT)

EMD - RS. 7600.00

Description and specification of the items

HP POLDER PUMP (OIL LUBRICANT)

01. 30 Meter head, 2000 lpm, 100 mm delivery outlet.
02. fully automatic 20 HP control panel
03. Stand for polder pump.
04. Cable-2x3x6 round cable
05. Other accessories.

CONDITION OF TENDERING FOR SUPPLY OF EQUIPMENTS

1. The tender documents, complete in all respects along with the enclosures should be submitted under sealed cover in person at the receipt counter of Institute by putting inside tender box or should be sent by Speed post, registered post only (Not By Courier Services) so as to reach the office before the specified date and time. Tenders received after the specified date and time will not be considered and will be filed. The Institute will not be responsible for postal delay.
2. In case the date of opening of the tenders/receiving the tenders is declared a holiday, the tenders will be received/opened on the next working day at the specified timing.
3. The tender shall be valid for a period of 120 days from the date of opening.
4. The quoted prices shall inclusive of all duties and levies except for excise duty and sales tax at the prevailing concessional rates, applicable against declaration of from 13 Photo Copy of the last sales tax registration number/certificate should be enclosed along with tender.
5. The items are required F.O.R. at TFRI , Jabalpur.
6. Full details of business terms and conditions e.g. packing and forwarding charges, delivery, validity period, guarantee of equipment , Installation, Demonstration of equipment, discount or any other information relevant to supply may also be given along with rates.
7. Tenderer should clearly mention the make/brand of the machine complete specification and other information regarding the articles to be supplied and enclosed printed literature and original catalogue/operational manual.
8. The Director, Tropical Forest Research Institute, Jabalpur reserve the right to reject any or all tenders without assigning any reason. Director, Tropical Forest Research Institute, Jabalpur will have the full right to accept tender with higher rates without giving any reasons to tenderers and his decision will be final and acceptable to all.
9. The act of giving tender shall be deemed to be deemed to be the unreserved acceptance of terms and conditions of this tender.
10. Conditional tenders are liable to be rejected.
11. The earnest money specify item wise will be deposited along with the tender in the form of Demand Draft/Banker's Cheque, in favour of Director Tropical Forest Research Institute, Jabalpur. The tenders will not be considered in the absence of required earnest money EMD in any other form like Bank guarantee, etc. will not be considered.
12. In case of successful tender, the amount of EMD shall be kept as security deposit which will be released after successful installation and demonstration of the supplied goods in satisfactory conditions and EMD shall be returned to unsuccessful tenderers.
13. The firms exempted from submission of EMD at the time of submission of the tender form; if awarded the contract will have to submit a performance security equivalent to the EMD.

14. The tenderer may be asked to demonstrate the equipment before the Director, TFRI or any other officials/nominated by him for adjudging the suitability of the equipment in that case, the tenderer shall be final and binding.
15. Acceptance of the offer shall automatically carry with it a guarantee on suppliers part that every material supplied there under shall be fresh and free from defects and shall be consistent with the established and general accepted standards for the materials of type and in full conformity with the specifications. If it is found otherwise when put into actual use, it shall be replaced by the supplier at his cost even after the payment of the bill has been made.
16. If the tenderer fails to comply with any of the above conditions or backs out from his/their tender or fails to supply within stipulated period to the satisfaction of the Director, Tropical Forest Research Institute, Jabalpur or any official authorized by him in this respect or fails to execute the agreement ,the EMD of tenderer shall be forfeited the Institute. In addition to forfeiting the EMD , the Director shall be at liberty to obtain the material to the extent stated in tender notice from any other source. The excess expenditure if any, incurred by the Institute in making such purchase shall also be recoverable from the tenderer in full as per rules. If purchase are made at lower rates difference of cost shall not be payable to the tenderer. In addition, the institute may black list the tenderer for a period up to five years.
17. The successful tender shall hereafter be called the supplier.
18. The equipment are required to be delivered and installed in full with 45 days of the issue of the supply order.
19. After the expiry of the delivery period, the supply order shall be automatically canceled the EMD/Performance Security deposited by the supplier shall be forfeited.
20. Delivery of the goods in goods and sound condition at destination shall be the responsibility of the supplier, Any loss, breakage, leakage, theft, etc. during transit or otherwise will be at the supplier's risk and cost.
21. The replacement on account of wrong or short supplier and the suppliers inconsistent with the specification shall be done by the supplier, without extra cost.
22. The supplier should be in a position to supply any spare parts (accessories required at least for period of five years after the expiry of warranty period.
23. Payment will be made after receipt of items in good and satisfactory condition including their demonstration and satisfactory installation.
24. Disputes, if any are subject to JABALPUR jurisdiction only.