

Tender No. NIF/VARD/2016/01

Tender Fee: Rs 500/-

Date: 18.09.2016

## TENDER NOTICE

National Innovation Foundation India, invites quotations for the following instruments in two bid system. The interested vendors/companies can submit their quotations in two separate sealed envelope (one for technical and one for financial) by 7th October-2016 up to 11:00 AM at National Innovation Foundation, Satellite Complex, Opp. Mansi Tower, Vastrapur, Ahmedabad-380015. The technical bids will be opened on 7th October-2016 at 02:00 PM, Venue: Conference Hall, NIF India. The term and conditions are as follows:

### Terms & Conditions:

1. The technical and financial bids should be quoted separately in different sealed envelopes for each equipment (**Annexure III**).
2. Applicant should not have been blacklisted by the Deptts/Ministries of the Govt. of India/State Govt./PSUs (A declaration has to be submitted).
3. The tenderer /bidder should submit duly filled check list of technical bid (**Annexure I**) along with supporting documents and catalogues of equipment quoted.
4. The financial bids of those bidders will be considered who qualify under technical bid. The date of opening the financial bids of qualified technical bidders will be informed separately.
5. The prices quoted must include CIF (Cost, Insurance and Freight) charges.
6. The bidder shall furnish, as part of the bid, an interest free EARNEST MONEY DEPOSIT (EMD) of amount mentioned in **Annexure II** for each equipment separately in the form of Demand draft / Account payee cheque at par (valid for 90 days) drawn in favour of National Innovation Foundation, payable at Ahmedabad.
7. The EMD of the unsuccessful bidders will be discharged/returned at the earliest after completion of the tender process. The successful bidder's EMD will be discharged upon the bidder's acceptance of the Letter of Intent satisfactorily. The EMD may be forfeited under following circumstances:
  - a. If the bidder withdraws his/her bid during the period of bid validity specified by the bidder in the Bid form;
  - b. In the case of successful bidder, if the bidder fails to sign the contract or fails; or Fails or refuses to honour his/her own quoted price for any of the items or part thereof.

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- c. In both the above cases bidder will not be eligible to participate in the tender for one year from the date of issue of Letter of intent.
8. The delivery of equipments to done within 60 days of confirmed Purchase order. The delivery period should be clearly indicated in the quotation.
9. Submitted quotations should clearly mention the validity period, preferably for a minimum of 3 months (07 th January 2017).
10. Incomplete and conditional submitted tenders would be summarily rejected.
11. The mode of payment should be clearly indicated.
12. Necessary certificate should be enclosed by the vendor in case of proprietary nature of the quoted items.
13. The prices quoted must be inclusive of all taxes, cost of software, training /equipment installation and demonstration, loading & unloading, transport insurance (wherever applicable) and transportation charges to deliver the equipment/machine at NIF's Ahmedabad office.
14. The 80 % payment will be released after delivery of equipment in good condition, successful commissioning, installation and testing of equipment.
15. The remaining 20% payment will be released after satisfying all the conditions as per the tender terms and condition, satisfactory functioning of the machines/equipment supplied and after furnishing of Guarantee/ Warranty documents.
16. The quotation should include comprehensive warranty for at least 2 years from date of delivery and one year free service effective from the date of delivery.
17. In case the quotation is being submitted by authorized agent of the principal manufacturing company, the AUTHORISED SALES AGENCYSHIP certificate from the PRINCIPAL should be furnished along with the quotation. Quotations without this authorization certificate will be rejected.
18. Special discount/rebate wherever admissible keeping in view that items are being procured for educational purpose in respect of Public Institution of national importance may please be indicated.
19. Vendors should attach the relevant brochure/leaflet for the models/options quoted.

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20. Vendors should attach users list with their contact details.
21. The Bidder shall bear all costs associated with the preparation and submission of its Bid. NIF shall, in no case, be responsible or liable for these costs, regardless of the conduct or the outcome of the Bidding process.
22. The tenderer should sign (not initials) at each page of the technical and financial bid documents and all its annexures. No page should be removed/detached from the tender document.
23. In case two or more agencies are found to have quoted the same rates, the competent authority, NIF shall decide about the agency to which the offer shall be granted based on the past credentials/ report on the past performance of the firm, and length of experience etc. The decision of the competent authority, NIF shall be final and binding, and no communication in this regard will be entertained.
24. The conflicts or disputes that may arise in relation to the subject, content, interpretation, implementation and enforcement of this agreement will be solved, firstly, by the Monitoring Committee setup jointly for good governance and then, by equity arbitration. In the event, efforts by Monitoring Committee and an equity arbitration attempt fails, then the legal jurisdiction to be approached shall be within the jurisdictions of Ahmedabad only.
25. The procurement is subject to release of grants from funding agency.
26. The tender/procurement process may be cancelled at any stage by competent authority without informing on any reason.

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**Annexure I**  
**Format for technical bid of the**  
**tender NIF/VARD/2016/01**

**Tender submitted for supply of .....(name of machine /equipment)**

S.No.	Description of requirement	Enclosed	Enclosure No.
1.	Whether the firm is registered with proprietary firm, Partnership firm, Limited Company, Corporate body legally constituted engaged in manufacturing / marketing of production machines / equipment	Yes/No	
2.	Declaration by the bidder that he / she has not been blacklisted by the Deptts/Ministries of the Govt. of India/State Govt./PSUs	Yes/No	
3.	Copies of Balance Sheet and Income Tax Return for last 3years duly Certified by CA-whether enclosed?	Yes/No	
4.	Copy of Registration Certificate/Allotment Letter of PAN / TAN From Income Tax Dept.	Yes/No	
5.	Copy of Registration Certificate/Allotment Letter of Service Tax Document relating Service Tax Number.	Yes/No	
6.	Partnership deed, if applicable	Yes/No	
7.	Details of other organizations where similar machines have been supplied	Yes/No	
8.	Demand draft / Cheque of Rs...../- As EMD enclosed in separate envelope along with Technical Bid	Yes/No	
9.	Technical specification of the machine	Yes/No	
10.	Financial Bid proforma / quotation completed and Sealed in a separate envelope	Yes/No	

Declaration of the Tenderer:-

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

(Signature of Tenderer with seal)

Name:

Place:

Date:

Seal :

Office Address:

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## Annexure II

### List of Equipment

Sr. No.	Instruments	EMD (Rs.)
1.	Ultra Water Purification System	11000.00
2.	Super critical fluid extraction System	120000.00
3.	High Resolution fast LC-MS/MS system with suitable software for natural products	550000.00
4.	Dual Channel Flash Chromatography System	70000.00

## Annexure III

## Details of instruments along with specifications

Sr. No.	Instruments	Specifications
1.	<b>Ultra Water Purification System</b>	<ul style="list-style-type: none"> <li>• It should have automatic recirculation when system is not in use</li> <li>• RO permeate &amp; final product water quality should be monitored by separate resistivity cell with low cell constant</li> <li>• Bright, colour graphic display showing system parameters, operational functions and product water quality</li> <li>• Should have inbuilt storage reservoir of 5 to 10 L with vent filter for storing pure water</li> <li>• System should have a remote dispenser (with display) attached with 0.22 micron filter to deliver water 2m away from main system</li> <li>• <b>Product Water Quality:</b>  Flow rate (Ultrapure Water): 1 L/min  Flow rate (Pure Water): 5 L/hr  Resistivity: 17-20 M <math>\Omega</math> ·cm @ 250C  Conductivity: &lt; 0.06 <math>\mu</math>S/cm  Bacteria: &lt; 0.1 cfu/ml  Endotoxin: &lt; 0.005 EU/ml  DNase: &lt; 5pg/<math>\mu</math>L  RNase: &lt; 0.05 ng/ml  Particles: &lt; 5 P/ml (&gt;0.22 <math>\mu</math>m)</li> </ul>
2.	<b>Super critical fluid extraction System</b>	<ul style="list-style-type: none"> <li>• Operating Pressure SFE: Up to 500 bar with allowance for pressure relief device</li> <li>• CO<sub>2</sub> Pump Flow Rate: 100-200 grams/minute</li> <li>• Head Cooling: Inlet and outlet tube connection for circulating coolant for each head</li> <li>• A compatible heat exchanger should be supplied for temperature regulation of unit</li> <li>• Operating Temperature: Up to 100°C</li> <li>• High Pressure three-way valves with flow selection and pressure vent capability</li> <li>• Variable volume High Pressure Extraction Vessel (200 to 1000 ml volume) is desired</li> <li>• Automatic Electronic Back Pressure Regulator</li> <li>• High Pressure Fraction Collection Vessel (suited volume)</li> <li>• Capable of monitoring and regulating 5 to 8 temperature settings autonomously with Alarm setting</li> </ul>

		<ul style="list-style-type: none"> <li>• Suitable Pre-loaded and configured software package with control system</li> <li>• Co-solvent pump should be integrated into the SFE system</li> <li>• UPS - 10Kva for the SFE and accessories with one hour backup should be quoted separately.</li> </ul>
3.	<b>High Resolution fast LC-MS/MS system with suitable software for natural products</b>	<p>Instrument Capabilities:</p> <ul style="list-style-type: none"> <li>➤ The system should have ability to resolve, identify, characterise and quantify phytochemicals from plant extract in addition to data interpretation and verification with the following specifications: <ol style="list-style-type: none"> <li>1. The instrument should be equipped with combined/dual electrospray ionisation (ESI) and atmospheric pressure chemical ionisation (APCI) as standard.</li> <li>2. The instrument should be capable of internal and external reference mass correction for MS and MS/MS operation without losing sensitivity.</li> <li>3. Facility for switching between the two ionization types (ESI &amp; APCI) during a LCMS experiment should be available. Positive and negative ionization capabilities should be included in the instrument. Positive and negative ionization capabilities &amp; it can be performed simultaneously</li> <li>4. The instrument should have a mass filter for efficient transmission of ions having mass range 20 to 3000 m/z.</li> <li>5. The resolution of the ToF mass analyzer should be &gt;30000 FWHM for entire mass range.</li> <li>6. Data acquisition rate should be around 20 to 50 Spectra per second in MS and MS/MS mode.</li> <li>7. The ToF mass analyser should have linearity of response upto 4 orders of magnitude whilst maintaining specified resolution for quantization purposes.</li> <li>8. The mass accuracy: <ul style="list-style-type: none"> <li>With internal calibrant: ≤ 1 PPM in both MS and MS/MS Modes.</li> <li>With external calibrant: ≤ 2 PPM in both MS and MS/MS Modes.</li> </ul> </li> <li>9. The instrument should be able to operate in MS Scanning, MS/MS product Ion Scanning, Simultaneous MS &amp; MS/MS scanning modes.</li> <li>10. Suitable Vacuum system to operate and maintain the instrument at highest level (imported)</li> <li>11. A latest configuration computer (1TB hard disk, 1GB graphic card, 8 GB RAM) with printer and other suitable accessories to operate the system</li> </ol> </li> </ul>

		<p><b>12.</b> The software should have capabilities to perform the following functions.</p> <ul style="list-style-type: none"><li>• Automated mass calibration, resolution, sensitivity check should be performed by software.</li><li>• Software tools for addressing Screening, Component Identification &amp; Structural Elucidation workflows.</li><li>• Data processing software should incorporate an elemental composition calculator as standard. Included into the calculator should be algorithms for isotope pattern modelling that allow data interpretation of actual isotope patterns.</li><li>• Suitable software for detection and identification of metabolites (known and unknown), minimizing false positives and generating extensive metabolite lists using various mass defect filters should be quoted.</li></ul> <p><b>13. <u>UHPLC System</u></b></p> <ul style="list-style-type: none"><li>• Maximum Operating Pressure more than 10,000 psi in the entire flow rate range</li><li>• System should have flow rate <math>\leq 200\mu\text{L}/\text{min}</math></li><li>• PDA detector compatible with the system</li><li>• Auto sampler with Injection Volume: 0.01- 100 <math>\mu\text{l}</math> and it should come with a flexible format sample tray for 96 positions with stainless steel injection needle. The needle wash should be integral, active and programmable</li><li>• Column Compartment Temperature range <math>5^{\circ}\text{C} - 80^{\circ}\text{C}</math></li></ul> <p><b>14.</b> Single Point of Control for both LC and MS system and Both Hardware LC and MS should be supplied by Same Vendor.</p> <p><b>15.</b> The system should be supplied with the required accessories such as gas generator with gas cylinder, regulators, compressor, for the operation of the instrument.</p> <p><b>16.</b> Should have latest technology to prevent the contamination of quadrupole.</p> <p><b>17.</b> Data interpretation tool for the confirmation of fragment ions.</p> <p><b>18.</b> Online UPS - 20Kva for the MS and accessories with two hours backup should be quoted separately.</p>
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4.	<b>Dual Channel Flash Chromatography System</b>	<ul style="list-style-type: none"><li>• Flash Chromatography System should be with inbuilt TLC Image Reader</li><li>• Each Pumping system with maximum pressure capacity of 100 -150 psi &amp; maximum flow rate of 1-50ml/min</li><li>• Different solvent (3-5 no.) in-let with binary gradient and isocratic mode</li><li>• Sample loading range should be from 1 mg to 20 gms</li><li>• The system/software should have capability of achieving very slow gradient of as low as 1-4% or even lower for the entire range of Flow rate while using Polar Solvent</li><li>• Variable wavelength UV detector with a range of 150-800nm or above</li><li>• The detector should have Broad detection range to detect the sample that has low UV absorption and to avoid Peak saturation of sample which has high UV absorption</li><li>• Facility to connect additional external detector of Mass Spectrometer ORELSD or RI detector</li><li>• Fraction collector with 20x150 mm racks</li><li>• The system should be able to work with different types of columns like prepack and glass Columns (for manually filling)</li><li>• The system should have pressure controlling system to continue the run in case of sudden pressure surge occurs</li></ul>
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