


**वै.ओ.अ.प.-राष्ट्रीय वनस्पति अनुसंधान संस्थान, लखनऊ**  
**CSIR-National Botanical Research Institute, Lucknow**  
 राणा प्रताप मार्ग, लखनऊ Rana Pratap Marg, Lucknow-226001  
 टेली-फैक्स नं०, Tel-Fax No.: 0522-2207819/0522&2206019, email: spo@nbri.res.in



**Notice for Expression of Interest (EOI)**  
**Pre-Indent Conference**

CSIR-National Botanical Research Institute (NBRI), Lucknow is a Premier R&D institute of Council of Scientific & Industrial Research (CSIR), intends to procure the item(s) mentioned herein under. In this regard, a Pre-Indent Conference (PIC) is being organized to finalize the broad technical specifications of the required item(s) as mentioned below. Prospective Supplier/Manufacturers/OEM/ Distributors/ Authorized Agent having capabilities to supply, installations, Commissioning and maintenance of such required item(s)/system(s) are invited to make technical presentations during the pre-indent conference followed by discussions on technology, design, features, utility, technical parameters, warranty, AMC and other related Techno-Commercial issues. Schedule of Pre-Indent Conference is as follows:-

Sr.No.	Reference No.	Item Name	Date	Time	Venue
1	8-301-16-P	Scanning Electron Microscope (SEM)	06-03-2017	10.30 AM	Committee Room, Annexed to Canteen, CSIR-NBRI, Rana Pratap Marg, Lucknow-226001 (Uttar Pradesh), India
2	8-302-16-P	Flow Cytometer (FCM)	03-03-2017	10.30 AM	
3	8-297-16-P	Ion Chromatograph	03-03-2017	2.30 PM	

Further, the tentative specifications of above mentioned items may be seen on our website i.e. [www.nbri.res.in](http://www.nbri.res.in) under **Advertisement(Tender)** head. Corrigendum/Amendment (if any) will be posted over website. Prospective parties are requested to frequently visit our website for the purpose. Prospective Supplier/Manufacturers/OEM/Distributors/Authorized Agent, who are willing to participate in the PIC process may send their willingness to the **Stores & Purchase Officer**, NBRI and depute their authorized representative(s) who is/are techno-commercially competent to present their product/solution, discuss with the technical committee and provide supporting document/information. The credentials, technical capability, financial standing & track record of the parties, will be evaluated based upon discussions during PIC and documents submitted by the interested parties who attends PIC. **Limited tenders will only be invited (under two bid system with required EMD) from such parties which have been declared shortlisted after PIC discussions/conference.** Director, NBRI reserves the right to accept or reject the proposal(s) of any party either in part or in full without assigning any reason thereof.

**Stores & Purchase Officer**  
spo@nbri.res.in

1.0 मांगी गई वस्तु का विवरण / Description of required indented item(s):-

Serial No.	Description of item/equipment including detailed specifications and summary of its functions	Quantity Required
1.	<p><b>Technical Specifications of Flow Cytometer (FCM)</b></p> <ol style="list-style-type: none"> <li>1. Bench top, pre aligned, compact and throughput flow cytometer</li> <li>2. Instrument should be equipped with minimum of following two solid state/diode based lasers:               <ol style="list-style-type: none"> <li>i) Blue laser@ 488 nm</li> <li>ii) UV laser@ 355-375 nm</li> </ol>               And it can upgradable to third light source ( Red laser @638 – 640 nm / Green laser @514-542 nm / Yellow laser @ 561-568 nm / Violet laser @ 407 nm )             </li> <li>3. Instrument should be equipped with two scatter detectors (forward and side scatter detector).</li> <li>4. Instrument should be unique combination of a truly stand-alone system with a modular configuration concept with up 8 optical parameters (up to 6 colours)</li> <li>5. Instrument should be with modular optical system with selected PMTs for all channels with integrated electronic preamplifier for FSC, SSC and other fluorescence channels with standard set of optical filters</li> <li>6. Flow of system should be based on hydrodynamic focusing, sheath based with biosafety cleaning function, True Volumetric Absolute Counting (TVAC) , C omputer-controlled syringe pump, speed continuously adjustable sample flow rate and waste reservoirs with fluid level sensors</li> <li>7. System should have both online and offline compensation to minimize crosstalk</li> <li>8. The system should be able to detect minimum particle size of 0.5 micron.</li> <li>9. System should have latest attached/in-built PC configuration for real-time data acquisition and analysis software with colour printer. Data analysis software should be provided at least for 3 computers (free data analysis software is</li> </ol>	1No.

preferable). One extra license for data analysis softwares like FCS express or Flow Jo with compatible PC (from a reputed brand) should be provided.

10. Compatible on-line UPS with at least 30 min back-up should be quoted with the system and supplied with the equipment
11. System should be CE or US FDA certificate
12. The company should provide minimum 5 proofs of satisfactory installations (for the model quoted) from users. Complete details of services and application support should be given along with onsite installation and training. Also, company should have facility for technical support, troubleshooting & training on the same system.
13. Minimum of two Years warranty for the complete system
14. Company should provide the controls, calibrators and consumables for 5000 ploidy analysis

**Optional:**

15. Company should quote CMC for five years in addition to warranty as a per year cost. This will not be included in cost comparison and will be only procured based on availability of funds.
16. System should have an upgradable option for auto loader attachment for 48, 96 well plates or 20 tubes for analyzing samples (must be quoted optional).