



सी.एस.आई.आर.—हिमालय जैवसंपदा प्रौद्योगिकी संस्थान

CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY

पालमपुर (हिमाचल प्रदेश) Palampur (H.P.)-176061

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अभिरुचि की अभिव्यक्ति/Expression of Interest (EOI) Notice No.02/2018

निदेशक, सी.एस.आई.आर.—आई.एच.बी.टी., पालमपुर द्वारा इच्छुक बोलीदाताओं से **निम्नलिखित उपकरणों** की खरीद हेतु विनिर्देशों को तैयार करने के लिए संस्थान में एक मांगपत्र पूर्व सम्मेलन (प्री-इंडेंट कॉन्फ्रेंस) का आयोजन किया जा रहा है।

Director, CSIR-IHBT, Palampur has organized a Pre-Indent Conference (PIC) in the Institute for the interested bidders for framing up the specifications for the purchase of following equipments:-

संख्या Sr.No.	टैंडर न./सन्दर्भ संख्या Tender No./ Reference No.	सामान का नाम /Item Name	समय एवं तिथि /Date & Time
1.	4/5(252)18-Pur	Atomic Force Microscope	07.09.2018 (11.00am)
2.	4/5(253)18-Pur	Surface Plasmon Resonance System	06.09.2018 (11.00am)
3.	4/5(254)18-Pur	In vivo Animal Imaging System	06.09.2018 (2.30pm)
4.	4/5(255)18-Pur	Unmanned Aerial Vehicle	04.09.2018 (11.00am)
5.	4/5(256)18-Pur	Auto Purification System	04.09.2018 (2.30pm)

इससे संबंधित विवरण संस्थान के वेबसाइट [www.ihbt.res.in](http://www.ihbt.res.in) पर अवलोकन हेतु प्रस्तुत किए गए हैं। The related documents can be viewed on the Institute's website [www.ihbt.res.in](http://www.ihbt.res.in)

भंडार एवं क्रय नियंत्रक  
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CSIR-Institute of Himalayan Bioresource Technology, Palampur (HP) is premier R&D Institute of Council of Scientific & Industrial Research (CSIR), intends to procure the item herein under. In this regard, a Pre-Indent Conference (PIC) is being organized to finalize the broad technical specifications of the required items as mentioned below. Prospective OEM/Distributors/ having capabilities to supply, installation, commissioning and maintenance of such required item/system are invited to make technical presentations during the PIC 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.	TENDER No.	Item(s)	Date & Time	Venue
1.	02/2018 Ref.4/5(252)18-Pur	Atomic Force Microscope	07.09.2018 (11.00am)	Director's Conference Room

### **Brief details**

A complete BioAFM set equipped with inverted optical microscope which should allow all operations in liquids, air and gases in high resolution. The BioAFM should be equipped for imaging biological specimens under aqueous buffer, on a glass cover-slip and also it should hold Petri dishes, glass slides etc. The system should allow imaging of nano materials along with biological samples. Additionally, AFM should include contact, non-contact, intermittent contact, tapping, phase imaging, molecular force spectroscopy, quantitative cell mechanics and molecular live-cell image.

The detailed specifications will be prepared after pre-indent conference meeting.

Prospective Supplier/Manufacturers/OEM/Distributors/Authorized Agent, who are willing to participate in the PIC process may 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 on scheduled date and time.

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 firms who attend PIC. Equipment's specifications will be finalized after discussion/technical presentation by the prospective bidders and on the basis of Research and Development requirement of the Institute.

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Sr. No.	TENDER No.	Item(s)	Date & Time	Venue
1.	02/2018 Ref.4/5(253)18-Pur	Surface Plasmon Resonance System	06.09.2018 (11.00am)	Director's Conference Room

### **Brief details**

Surface plasmon resonance (SPR) based label-free detection system for detailed studies of biomolecular interactions. The system should provide real time data for high quality kinetic, affinity, concentration, specificity, selectivity, comparability, and thermodynamic interaction analysis. System should have high sensitivity to characterize and analyse interactions by on- and off-rates (kinetics constants  $k_a$  and  $k_d$ ) at the extremities of the kinetic scale with great precision and confidence. The SPR based interaction analysis system must help in drug discovery and drug-library screening (natural as well as chemically synthesized) and ranking of compounds based on binding kinetics properties.

Apart from kinetics characterization, the SPR platform should provide qualitative and quantitative information on following:

1. Transition state and steady state thermodynamics parameters of interaction
2. Affinity in solution for competitive inhibitors
3. Active concentrations of biomolecules
4. Immunogenicity testing of therapeutic molecules
5. Bio-similarity testing and scoring

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1.	02/2018 Ref.4/5(254)18-Pur	In vivo Animal Imaging System	06.09.2018 (2.30pm)	Director's Conference Room

**Brief details**

The imaging system should be suitable for the multi-modality imaging of small animals- Mice, Rat, hamsters and Zebra fish. The equipment should be fully automatic to image and co-register the multi-modal information. The main application areas of this system will be in hepatology, nephrology, cardiology, oncology and systemic inflammation and other inflammatory diseases alongwith bioavailability/biodistribution and PK/PD evaluations in small animals. The system need to have the possibilities to acquire 3 dimensional images of the organs with *in vivo*-bio distribution.

The detailed specifications will be prepared after pre-indent conference meeting.

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Sr. No.	TENDER No.	Item(s)	Date & Time	Venue
1.	02/2018 Ref.4/5(255)18-Pur	Unmanned Aerial Vehicle (Drone)	04.09.2018 (11.00am)	Director's Conference Room

### Brief details

**Unmanned Aerial Vehicle (UAV) is required for Hyperspectral Imaging and LiDAR Sensors** already available with the Institute. The complete installation, good quality air borne data acquisition using above sensors at CSIR-IHBT campus and complete training on UAV operation will be vendor's responsibility. The details of sensors to be mounted on the UAV by the vendors are as follows:

**Sensor 1 (Hyperspectral sensor):** Model HySpex VNIR-1800 (Hypex, NEO, Norway); Wavelength range: 400 — 1000 nm; Power consumption: 30 W; Dimensions (l-w-h): 39-9.9-15 cm; Weight 5.0 kg.

**Sensor 2 (Hyperspectral sensor)::** Model HySpex SWIR-384 (Hypex, NEO, Norway); Wavelength range: 930-2500 nm; Power consumption: 30 W; Dimensions (l-w-h): 38-12-17.5 cm; Weight: 5.7kg.

**Sensor 3 (LiDAR sensor):** Model 3DT Scanfly LiDAR (3D TARGET SRL, Italy); Power consumption: 33 W; Dimensions (l-w-h): 22.4-12.8-11 cm; Weight: =1.5 kg.

In addition, vendor should also provide one optical camera with excellent resolution for aerial image acquisition. The overall payload will also be comprised of batteries, GPS/IMU, on-board data storage or any other parts required (as applicable) for smooth operation of supplied UAV. There should be a scope of additional payloads for the mounting of few other sensors on the UAV in the future. It should have automated and manual control with safety features (e.g., automated landing in case of any failure, obstacle avoidance mechanism, etc.).

The detailed specifications of UAV will be prepared after Pre-Indent Conference meeting.

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1.	02/2018 Ref.4/5(256)18-Pur	Auto Purification System	04.09.2018 (2.30pm)	Director's Conference Room

Brief details

A mass based automated preparative LC system equipped with automated fraction collector is required for the isolation and purification of compounds from the plants and microbes. The instrument should be equipped with auto sampler (allow sample mixing, dilution and reinjection automatically) and should be furnished with separate sample injectors for preparative and analytical purposes. Additionally, system should allow to use minimum of 2 analytical & 2 preparative columns without having to disconnect any tubing and should have sample collection and reinjection from the single tray (vial) without any manual intervention.

The detailed specifications will be prepared after pre-indent conference meeting.

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