सी.एस.आई.आर - हिमालय जैव संपदा प्रौद्योगिकी संस्थान
CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY
(वैज्ञानिकतथाऔद्योगिकअनुसंधानपरिषद्/ **Council of Scientific & Industrial Research**
पोस्ट बॉक्स नं.-06, पालमपुर-176061 / **Post Box No.06, Palampur-176061**
(हिमाचल प्रदेश/**Himachal Pradesh**), भारत/**India**
EMAIL: spo@ihbt.res.in, **Phone: 91-1894-230425,**
ईमेल/**e-mail:** spo@ihbt.res.in,

MINUTES OF PRE-BID CONFERENCE HELD ON 31.01.2022 AT 3.00 P.M. THROUGH MS TEAMS

No.4/5(468)21-Pur

Dated 05.02.2022

Tender Ref.No.4/5(468)21-Pur

Ref: Tender ID 2022_CSIR_643430_1 e-published on 22.01.2022

Tender Title: Global Tender for Confocal Microscope

Work Description: Supply and Installation of Confocal Microscope

After Pre-Bid Conference, minor modifications have been made in the technical specifications of the Confocal Microscope. Minutes of meeting and points of specifications modified are placed below: -

All prospective bidders may please note and submit your offer accordingly.

5/2/22

(Sanjay Rawat)
Controller of Stores & Purchase
CSIR-Institute of Himalayan Bioresource Technology,
Palampur (HP) India

Minutes of Pre-Bid conference held on 31.01.2022 at 3:00 P.M.

Through MS Teams

Tender ID_2022_CSIR_643430_1, 4/5(468)21-Pur; Published on 22.01.2022

For the purchase of Confocal Microscope

The following attended the conference:

From Technical & Purchase Committee

Dr. Sanjay Uniyal, SPS	Chairman
Dr. Vivek Dogra, SS	IO-Member
Dr. Yogender S Padwad, PS	Member
Dr. Upender Sharma, SS	Member
Dr. Amitabha Acharya, SS	Member
Er. Bijan, STO	Member
SO, Admin	Member
SO, Finance	Member
SPO	Member-Convener

From Bidders:

1. M/s. DSS IMAGETECH PVT. LTD
2. M/s. Carl Zeiss India (Bangalore) Pvt. Ltd

Deliberations:

1. The TPC had given the clarification to the issues raised by M/s. DSS IMAGETECH Pvt. Ltd and M/s. Carl Zeiss India (Bangalore) Pvt. Ltd, vide their email. Further the TPC also modified certain specifications to make it more clear for the bidders. The clarfications given and specifications modified/deleted are stated in the annexure A.

Specifications modified:

Specification No.	Original tender specification	Revised specification post Pre-bid conference
Background	The system should include multichannel Fluorescence imaging with Z-stack, Co-localization, time-lapse imaging, FRAP, FRET, Photoactivation and conversion imaging & analysis, Advanced 3D imaging, photon counting, photoactivation, conversion experiments, and fluorescence LIFE-TIME based species separation system and gated detection. The system should come with hardware for super-resolution and live-cell accessories.	The system should include multichannel Fluorescence imaging with Z-stack, Co-localization, time-lapse imaging, FRAP, FRET, Photoactivation and conversion imaging & analysis, Advanced 3D imaging, photon counting, photoactivation, conversion experiments, and a LIFE-TIME system for species separation based on fluorescence having gated detection. The system should come with hardware for super-resolution and live-cell accessories.
2. a	The state-of-the-art confocal system should have a set of galvo-scanners for precise high-resolution imaging with different scan resolution formats from at-least 16x16 to 8K x 8K or better.	The state-of-the-art confocal system should have a set of galvo-scanners for precise high-resolution imaging with different scan resolution formats from at-least 16x16 to 4K x 4K or better.
2. b	The scanner should have the ability to scan in various scan areas such as rectangle, clip, polygon, line etc. and scanning zoom of 0.8-40 times or better with ROI Scan should be achieved. Scan rotation of 180 degrees or better should be available	The scanner should have the ability to scan in various scan areas such as rectangle, clip, polygon, line etc. and scanning zoom of 1-40 times or better with ROI Scan should be achieved. Scan rotation of 180 degrees or better should be available.
2. k	The minimum detectable spectral bandwidth of each detector should be at least be 5 nm or better throughout the spectral range of 410-800 nm or better, and maximum spectral bandwidth at one go must be at least 400 nm or higher for each detector.	The minimum detectable spectral bandwidth of each detector should be at least be 5 nm or better throughout the spectral range of 410-700 nm or better, and maximum spectral bandwidth at one go must be at least 100 nm or higher for each detector.
2. m	The system must come with an online resolution enhancement module to achieve a resolution of up to 120-140 nm or better in XY without manual interventions and 300-350 nm in Z. Detection should be based on high sensitive dedicated super resolution detector or HyD/GaAsP detectors with	The system must come with an online resolution enhancement module to achieve a resolution of up to 120-140 nm or better in XY without manual interventions and 300-350 nm or better in Z. HyD/GaAsP detectors with QE/PDE must be 50 ± 5% or higher for super-resolution imaging.

	QE/PDE must be 55% or higher for super-resolution imaging.	
3. a	All visible lasers should be stable solid-state lasers controlled by acousto-optic tunable filter (AOTF) for precise switching and swift selection of the desired laser lines. The laser lines should be 445/448nm, 488nm, 514/515nm, 561nm, 635/638/640 nm or equivalent.	Following lasers should be stable solid-state lasers controlled by acousto-optic tunable filter (AOTF) for precise switching and swift selection of the desired laser lines. The laser lines should be 445/448nm, 488nm, 514/515nm, 561nm, 594nm, 635/638/640 nm or equivalent.
3. b	Pulsed laser for imaging following range dyes 488, 514, 543, 561, 594, 620, 638 and 680nm must be quoted. Pulsed laser can be single photon or Two photon laser to image above range dyes.	The point stands deleted
3. c	The system must have a UV laser 405/408nm through separate UV port/fiber, for better focal-plane overlapping with the visible lasers.	The system must have direct modulation/AOTF controlled UV laser 405/408nm with intensity adjustment options.
7	Also quote for the required hardware/module to enable the system as a fluorescence LIFE-TIME based species separation system and gated detection facility to separate signals from autofluorescence. The pulsed laser for the fluorescence LIFE-TIME based contrast imaging/species separation should cover the excitations of all the dyes including blue, green, yellow, orange and red excitations and should be able to do spectral profiling for excitation wavelengths as well along with the standard emission spectral profiling.	Must quote for the required hardware (TCSPC/FPGA) based module to enable the system as a LIFE-TIME system for species separation based on fluorescence and having gated detection (HyD/GaAsP/APD) facility to separate signals from autofluorescence. The pulsed laser for the fluorescence LIFE-TIME based contrast imaging/species separation should cover the excitations of all the dyes including blue, green, yellow, orange and red excitations.

04/02/22