

File Ref. No. PUR/IICT/DMS/0648/24-25
CPPP Tender ID: 2024_CSIR_203143_1

Dt: 06-08-2024

Minutes of Pre-Bid Conference (PBC) held on 06-08-2024 for proposed procurement of "Supply, installation and commissioning of "LASER SCANNING CONFOCAL MICROSCOPE" - 1 No."

Chairpersons / Members of the Technical Sub Committee (TSC) present during PBC including domain experts present during PBC:-

1. Dr. N.Lingaiah, Chairman
2. Dr.G.Jithender Reddy, Member
3. Dr.SreepriyaVedantam, Member
4. Dr. Srigiridhar Kotamraju, IO
5. Dr. Sai Balagi A (Applied Biology)
6. Mr. Suresh Y (Applied Biology)

Representatives of the following firm attended the PBC:

1. M/s **DSS IMAGETECH PVT LTD**
2. M/s **NIKON INDIA PVT. LTD.**
3. M/s **CARL ZEISS INDIA**

The following points were discussed during the PBC:

1. Query raised by M/s CARL ZEISS INDIA and response of CSIR-IICT:

Query-1: In Specification no A.5, it was requested to modify one of the Apochromatic objectives **4X/5X** instead of 4X only

Response: The requested amendment was agreed upon and modified as 4X/5X. This was agreed by all other vendors.

Query-2: In specification no **B.3 part** it was requested to modify the motorized adjustable slit wavelength range of **400–650nm with a 5nm increment** instead of wavelength range of 400–900nm with 1nm increment.

Response: The requested amendment was agreed upon and modified as motorized adjustable slit wavelength range of **400–650nm with a 5nm increment**.

Query-3: In specification no **B.4 part** the system should be onsite **upgradable up to 4 highly sensitive GaAsP/Hybrid/Silicone based spectral detectors** instead of 5 detectors

Response: The requested amendment was agreed upon and modified as onsite **upgradable up to 4 highly sensitive GaAsP/Hybrid/Silicone based spectral detectors.**

Query raised by M/s. NIKON INDIA PVT. LTD., and response of CSIR-IICT:

Query-1: In specification no: B1 part, they request that the system should have a built-in or a **separate** scanner detector with different scan resolutions 4096X4096 or better with a scan speed of **6 to 10** (instead of up to 10) frames per second or better at 512x512 resolution without compromising the FOV with at least **4-10mm** FOV (instead of 9-10mm FOV).

Response: The requested amendment was agreed upon and modified as the system should have a built-in/**separate** scanner detector with different scan resolutions 4096X4096 or better with a scan speed of **6 to 10** frames per second or better at 512x512 resolution without compromising the FOV with at least **4-10mm** FOV.

Query-2: In specification no: B3 part, it was requested to consider either in-built detectors (with Peltier/ water cooled system) or separate detector module.

Response: The requested amendment was agreed.

Query-3: In specification no: B4 part, it was requested that all the detectors should have either analog or HDR photon counting capability instead of analog and HDR photon counting capability.

Response: To achieve the highest image quality, we require both analog and HDR photon counting capability. Hence, this request was not considered.

General query by all four participants:

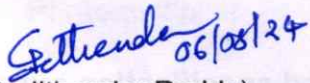
All the three participants requested that tender equipment is not available with any Indian manufacturers and this equipment is already under the GTE exemption list (**S. No: 304**) notified by Govt of India in a wide number No. F.4/1/2023-PPD(pt.) dated 28.06.2024.

Response: The Technical Service committee observed that all the participating bidders represented foreign original equipment manufacturers (OEM) and the said item is also exempted under GTE, which permits exception to facilitate the participation of OEMs along with Indian manufacturers. Accordingly, TSC recommended that a fresh bid can be invited under GTE exception with revised specifications. After the pre-bid meeting, a formal decision will be notified in C-PPP in due course.


Points clarified by CSIR-IICT Team during PBC:

The representatives of the participating firm/further informed that they do not have any issue or suggestion with respect to other points of tendered specifications and related requirements given in the tender document. Participating bidders have been informed that points raised by them during PBC will be examined by CSIR-IICT's **Technical Sub Committee (TSC)/Technical team** constituted for the purpose of procurement of said equipment and **post PBC changes** in tendered specifications and requirements to be agreed after due consideration of the same by TSC, **if any**, will be uploaded in **CPPP** as part of **revised/amended tendered specifications** along with CSIR-IICT website www.iict.res.in or before _____. All bidders


are requested kindly to take a note of the changes, if any, in tendered specifications subsequent to **PBC** held today, i.e. 23-07-2024 before they start submitting their online bids through CPPP.


(Dr. Jithender Reddy)
Member


(Dr. Sreepriya Vedantam)
Member


(Dr. Srigiridhar Kotamraju)
IO


(Dr. Sistla Ramakrishna)
PL


(Dr. N Lingaiah)
Chairperson

Revised Specifications/Corrigendum

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The following changes has been made in tendered specification subsequent to PBC held on 06.08.2024

S. No.	Existing Specifications	Revised/Amended Specifications
A.5	<p>The system should have at least 6 positions motorized nosepiece and confocal grade objectives. The system should essentially have confocal Grade Plan Apochromatic objectives with 4X (NA 0.2 or better), 10X (NA 0.40 or better), 40X (NA 0.95 or better) with correction collar, 60X (NA 1.42 or better) and 100X (NA 1.45 or better). Apart from the above, a 20X (NA 0.45) long working distant objective with collar correction for imaging in confocal mode should be quoted for imaging thick tissues/organoids/organisms such as zebrafish, drosophila/spheroids/organoids should be quoted.</p>	<p>The system should have at least 6 positions motorized nosepiece and confocal grade objectives. The system should essentially have confocal Grade Plan Apochromatic objectives with 4X/5X (NA 0.2 or better), 10X (NA 0.40 or better), 40X (NA 0.95 or better) with correction collar, 60X (NA 1.42 or better) and 100X (NA 1.45 or better). Apart from the above, a 20X (NA 0.45) long working distant objective with collar correction for imaging in confocal mode should be quoted for imaging thick tissues/organoids/organisms such as zebra fish, drosophila/spheroids/organoids should be quoted.</p>
B.1	<p>The system should have a built-in scanner and detectors with different scan resolutions 4096X4096 or better with a scan speed of up to 10 frames per second or better at 512x512 resolution without compromising the FOV (with at least 9-10mm FOV). Higher frame rates of more than 110 FPS with ROI Scanning should be achieved with the same scanner set.</p>	<p>The system should have a built-in/Separate scanner and detectors with different scan resolutions 4096X4096 or better with a scan speed of 6 to 10 frames per second or better at 512x512 resolution without compromising the FOV (with at least 4-10mm FOV). Higher frame rates of more than 110 FPS with ROI Scanning should be achieved with the same scanner set.</p>

<p>B.3</p>	<p>The system should have at least Two High Sensitivity peltier/water cooled Spectral detectors (Silicon Photomultiplier or GaAsP or Hybrid or equivalent technology) for Visible to NIR Imaging with Superior S/N ratio. Detector should be able to reconstruct super resolution image down to 100-120nm or better in XY and 300-400nm in Z. The detectors should be Peltier/Water cooled with a QE/PDE of 45-55% and go down up to 900nm for Far Red imaging upgradation. Motorized adjustable slit wave length range of 400-900 nm with 1nm increment resolution, selectable wavelength band width of 1-100nm.</p>	<p>The system should have at least Two High Sensitivity peltier/water cooled (if In-built) Spectral detectors (Silicon Photomultiplier or GaAsP or Hybrid or equivalent technology) for Visible to NIR Imaging with Superior S/N ratio. Detector should be able to reconstruct super resolution image down to 100-120nm or better in XY and 300-400nm in Z. The detectors should be Peltier/Water cooled with a QE/PDE of 45-55% and go down up to 900nm for Far Red imaging upgradation. Motorized adjustable slit wave length range of 400-650nm with 5nm increment resolution, selectable wavelength band width of 1-100 nm.</p>
<p>4</p>	<p>The system should be onsite upgradable up to 5 highly sensitive GaAsP/Hybrid/Silicone based spectral detectors for 5 colour simultaneous imaging.</p>	<p>The system should be onsite upgradable up to 4 highly sensitive GaAsP/Hybrid/Silicone based spectral detectors for 5 colour simultaneous imaging.</p>

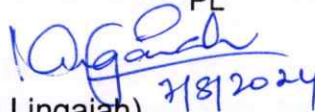
All the other tender terms remain unchanged. Bidders may please submit their bids accordingly.


 (Dr Jithender Reddy)
 Member


 (Dr.Sreepriya Vedantam)
 Member


 (Dr. Srigiridhar Kotamraju)
 IO


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 Chairperson