

**Minutes of Pre-Bid Conference (PBC) held on 19.12.2019 for proposed procurement of (Live Cell Imaging System) ”- 01.No.**

As scheduled (PBC) has been conducted on 19.12.2019 for proposed procurement of “(Live Cell Imaging System)”. – 01 No.

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

1. Dr. R. Sankarnarayan, Chairperson
2. Dr K Thangraj, Member
3. Dr Anant B Patel, Member
4. Smt. Asha Ramesh, Member
5. Dr B Raman, Member
6. IO/PL: Dr. P Chandra Shekar
7. Domain Expert – Dr. Nandini Rangarajan
8. Domain Expert – Dr. Sonal Nagarkar Jaiswal
9. Domain Expert – Dr. Pavithra L Chavali
10. Domain Expert – Mr. Ravindra Chakravarthi

**Members of TSC who could not attend**

3. Domain Expert- Dr. Puran Singh Sijwali
4. Domain Expert— Dr. Jyotsna Dhawan

**Representatives of the following -----firms attended the PBC :**

Sl. No.	Name of the Firm (M/s.)	Name of Representative
1.	M/s. Carl Zeiss India (Bangalore) Pvt Ltd.	Mr. Amarnath
2.	M/s. Towa Optics Pvt Ltd.	Mr. Victor Rozario
3.	M/s. DSS Imagetech Pvt Ltd	Mr. Srikanth
4.	M/s Leica microscopes	Mr. Kumar
5.	M/s. Wipro GE	Mr. Venu



**The following points were discussed during the PBC:**

**Query raised by : Carl Zeiss India Pvt Ltd.**

1. Point No 15. Long working distance Motorised universal condenser NA 0.52 with 6 positions or more for bright field, DIC and phase contrast applications. It should have dedicated slots for DIC prisms for each objective. Since we don't have a 7 position motorized condenser with N.A 0.55.
2. Point No. 16. Tiltable/Ergo Binocular observation tube with two 10X eyepieces having dioptre adjustment with a minimum 22 FN or better.
3. Point No. 17. The light source should have 7 or more independent LED for 385nm, 430nm, 475nm, 511nm, 555nm, 590nm and 630nm.
4. Point No. 18. 6 or more position Motorised filter turret
5. Point No. 20. temperature range of 5 deg C to 40 deg C

**Query raised by M/s Towa Optics Pvt Ltd**

1. Point No 2. Motorised 4-step light path switching Binocular 100% / Left side port & Right side port 100% / Binocular: side port = 50:50 or 80%:20%.
2. Point No 4. TFT/LCD/Wifi Controlled Tablet/Android Phone touch screen capable of controlling all motorized functions of microscope
3. Point No 11. Intermediate magnification changer 1.5x or 2x.
4. Point No 13. Long working distance Plan semi apochromat/ Plan Fluor 20X / NA 0.45 phase or better
5. Point No 17. 365nm, 405nm, 435/445nm, 488/490nm, 514/525nm, 550/561nm, 594/595nm and 635/640nm. The light source should have built in trigger board or should have an option of triggering for fast switching with control card
6. Point No 18. Fluorescence Module: 10 position Motorised filter turret for 18mm FOV imaging Add UV filter
7. Point No 20. Onstage CO2 Incubator: Onstage CO2 incubator to maintain constant temperature with temperature range of 5 deg C above ambient to 60 deg C, humidity and CO2 control. IT should have a touch screen panel to control all the parameters and the same application software to get the data log of all the parameters.
8. Point No 21. 2/3-inch or 6.91 x 4.92 mm Color CCD/CMOS camera for image capture, 5 mega pixels or more, 15FPS or more @ 2400x1900 or better resolution, USB 3.0 etc.

**Query raised by M/s DSS Imagetech Pvt Ltd**

1. Point no . 3 The system should have left side port for sCMOS camera and a right side/back port/Trinocular Observation Head for Color CCD camera.





**Query raised by M/s Leica :**

1. Point no6: 5nm step size
2. Point no:7: Remove IR Laser
3. Point no:10: In built fast BF shutter
4. Point no: 12 : Eyepiece dioptre adjustment
5. Point nO: 13: 20x/o.40NA
6. Point no: 14; Remove linear encoded
7. Point no: 15: Condenser 0.55
8. Point no:17: Request for 395nm, 438nm, 475nm, 511nm, 555nm, 575nm,635nm & 730 nm
9. Point no: 18: Six position motorised filter turret
10. Point no: 19: Onstage incubator/ Cage incubator black box
11. Point no: 21 i: Removal of peltier , request for QE of 80% or better
12. Point no:21 ii: request for 9 FPS

**Points clarified by CCMB Team during PBC –**

The above points were discussed in the presence of all the participating bidders and the following clarifications were provided:

1. Point No 2: No change
2. Point no.3 The system should have left side port for sCMOS camera and a right side/back port/trinocular observation head for Color CCD camera or CMOS camera (CMOS camera subject to DEMO)
3. Point no:4:TFT/LCD/ Tablet integrated tot eh system (This change requested by M/s Towa Optics is agreed by CCMB Subject to condition that bidder provides demo and same is accepted by CCMB after satisfactory DEMO. ) capable of controlling all motorized functions of microscope
4. Point No 13. Long working distance Plan semi apochromat / Plan Fluor 20X / NA 0.40 phase or better
5. Point no:14: Removed Linear Encoded
6. Point No 15. Long working distance Motorised universal condenser NA 0.52 with 6 positions or more
7. Point No. 16. Tilttable /Ergo Binocular observation
6. Point no:17: 365/385/395nm, 430/435/438/445nm, 475/488/490nm, 511/514/525/nm, 550/561/555nm, 575/590/594/595nm and 630/635/640nm.
7. Point no: 18 Six or more position
8. Point no:20—5 Deg C to 45 Deg C
9. Point no: 21i – Back illuminated Scientific CMOS QE 95% or more
10. Point no:21 ii—equivalent color CMOS camera with equivalent specifications(This change requested by M/s Towa Optics is agreed by CCMB Subject to condition that bidder provides demo and same is accepted by CCMB after satisfactory DEMO. )
11. Point no: 22—Tile scan

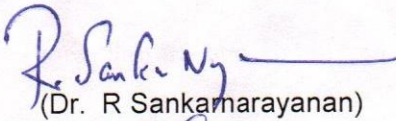


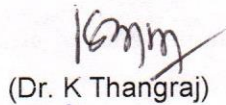


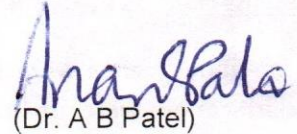
All the participating firms informed that they do not have problem with other points of tendered specifications and requirements. Participating bidders have been informed that points raised by them during PBC will be examined by CCMB's **Technical Sub Committee (TSC)** constituted for the purpose of 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.


**The other points/queries sent were also discussed and clarified as per points raised by the bidders during discussions.**

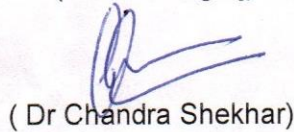
Reply/ changes to the Points discussed during PBC with changes agreed (if any) will be uploaded in due course at **CPPP** for information and reference of prospective bidders on or before **24.12.2019 (17.00 Hrs.)**. All bidders are requested kindly to take a **note of changes** in tendered specifications subsequent to PBC held today i.e. **19.12.2019** before they start submitting their online bids through **CPPP**.

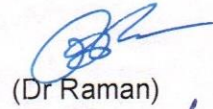
  
(Dr. R Sankararayanan)

  
(Dr. K Thangraj)

  
(Dr. A B Patel)

  
(Smt. Asha Ramesh)

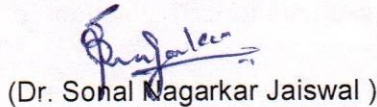
  
( Dr Chandra Shekhar)

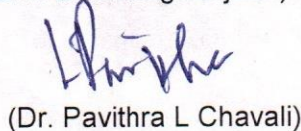
  
(Dr Raman)

(Dr. Jyotsna Dhawan)

(Dr. Puran Singh Sijwali)

(Dr. Nandini Rangarajan)

  
(Dr. Sonal Magarkar Jaiswal )

  
(Dr. Pavithra L Chavali)

  
(Mr. Ravindra Chakravarthi)

**Participating Bidders Representatives (Firm Name and Signature of representative participating in the PBC)-**

M/s. Carl Zeiss India Pvt Ltd.

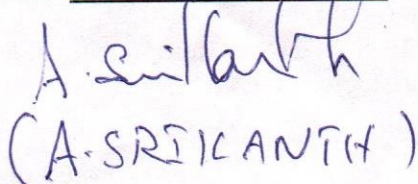
M/s. Towa Optics Pvt Ltd

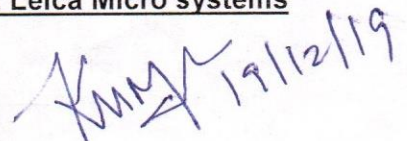
(T. AMARNATH)

J. A. Venkatesh

M/s. DSS Image tech Pvt Ltd

M/s. Leica Micro systems

  
(A. SRIKANTH)

  
19/12/19

M/s. wipro GE Healthcare  
