The Director, Forensic Science Laboratory, Kerala Police Department, Government of Kerala invites online bids from reputed manufacturers/authorized dealers or reputed vendors for BINOCULAR MICROSCOPE (2 Nos), Trinocular research microscope with HDMI Camera, Computer and Printer (2 Nos) and Stereo Zoom Trinocular Microscope with HDMI Camera, PC and Printer (2 Nos) for District Labs at Kollam and Malappuram. The bidders should comply with the following general conditions in addition to the additional conditions of the instant tender.

**General**

1. The Bidder should be a reputed Original Equipment Manufacturers (OEM) or authorized dealer of OEM, who is having an Authorization Certificate from the OEM to participate in the tender floated by Kerala Police. Certificate from the OEM for sales and service, to be produced.

2. One bidder can not represent two suppliers/OEMs or quotes on their behalf in a particular tender.

3. The OEM/Bidder should have a well equipped service centre functioning in India (preferably in Kerala) to cater to immediately after sales requirement; copy of Service Centre details must be enclosed along with Tender document. (Preferably bidder should have a Service Centre in Kerala/South India).

4. A reputed vendor can participate in the tender provided the vending outfit is functioning in the market for at least 10 years.
5. The Bidder should have valid GST registration. Copy of GST registration certificate should be enclosed along with the tender.

6. The bidder should have valid PAN/Taxation Index Number. Copy of PAN/Taxation Index Number allocation letter should be enclosed along with the tender.

7. The Bidder must fulfil the following minimum qualification criteria to prove the techno-commercial competence and submit the documents in support thereof:
   a). Valid Authorization letter from the OEM to attend this particular Tender.
   c). Last 3 year's financial status of the Bidder's/P&L and Balance Sheet/audit report of last 3 years.
   d). The bidder (authorized dealer/distributor) should have the dealership/distributionship for at least 3 (three) continuous consecutive years with the OEM.
   e). The Bidder has to submit a Warranty Certificate along with invoices.
   f). In case of a proprietary item, a certificate by the OEM to be attached.

<table>
<thead>
<tr>
<th></th>
<th>Tender No. &amp; Date</th>
<th>TENDER NO 55/2019-20 Dated 20/01/2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Item</td>
<td>BINOCULAR MICROSCOPE (2 Nos), Trinocular research microscope with HDMI Camera, Computer and Printer (2 Nos) and Stereo Zoom Trinocular Microscope with HDMI Camera, PC and Printer(2 Nos)</td>
</tr>
<tr>
<td>3</td>
<td>Quantity</td>
<td>2 Nos for each item.</td>
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<tr>
<td>4</td>
<td>Estimated Amount</td>
<td>Rs. 1840000</td>
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<tr>
<td>5</td>
<td>Tender Fees</td>
<td>Rs. 3500+ Tax = Rs. 4165/- (Rupees Four Thousand One Hundred and Sixty Five only)</td>
</tr>
<tr>
<td></td>
<td>Earnest Money Deposit</td>
<td>Rs. 18400/- (Rupees Eighteen Thousand Four Hundred only)</td>
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<tr>
<td>7</td>
<td>Date and time of publication of e-Tender</td>
<td>20/01/2020 06:00 PM</td>
</tr>
<tr>
<td>9</td>
<td>Date of submission of e-Tender</td>
<td>21/01/2020, 06:00 PM To 05/02/2020, 12:00 NOON</td>
</tr>
<tr>
<td>10</td>
<td>Last date and time for online submission of e-tender</td>
<td>05/02/2020, 12:00 NOON</td>
</tr>
<tr>
<td>11</td>
<td>Date and time of opening of e-Tender</td>
<td>06/02/2020, 3:00 PM</td>
</tr>
<tr>
<td>12</td>
<td>Place of opening</td>
<td>Forensic Science Laboratory, Thiruvananthapuram</td>
</tr>
<tr>
<td>13</td>
<td>Date, Time and Place of Technical Evaluation</td>
<td>Will be informed later</td>
</tr>
<tr>
<td>14</td>
<td>Bid Validity (Total Number of Days up to which the rates are to be firm)</td>
<td>60 days</td>
</tr>
<tr>
<td>15</td>
<td>Address of Tender Inviting Authority</td>
<td>Forensic Science Laboratory, Kerala, Vazhuthacaud, Thiruvananthapuram - 695010 Ph: 04712721533 e-mail: dirfsl.pol@<a href="mailto:kerala@gov.in">kerala@gov.in</a> Website: <a href="http://www.keralapolice.gov.in">www.keralapolice.gov.in</a></td>
</tr>
</tbody>
</table>

**9. Mode of submission of bids: - Online.** All Bid documents shall be submitted only in online procedure through the e-GP website
www.etenders.kerala.gov.in in their designated online covers. Details of covers are given separately. No other mode of submission shall be accepted and such tenders will be rejected outright.

10. Cover details: - No. of covers - 2. i) Technical Bid cum and Financial Bid. The CMC/AMC/ATS after warranty period also to be quoted in the Financial Bid. In the case of Foreign Equipments, the rate must be quoted in Indian Rupees. The documents to be uploaded under each online covers are specified in the website.

11. Downloading of e-Tender documents: - The tender document can be downloaded from the e-GP website www.etenders.kerala.gov.in from the date and time of publication of e-tender onwards to last date and time for online submission of e-tender. Downloading of tender documents will not be possible after the date specified above.

12. Submission of e-Tender documents: - The digitally signed tender document and other specified documents shall be submitted online through the e-GP website www.etenders.kerala.gov.in well in advance before the last date and time mentioned above. No submission shall be allowed after the last date mentioned above.

13. Payment of Tender Fees: - A non-refundable tender fee shall be paid in online mode through the e-GP website www.etenders.kerala.gov.in at the time of bid submission. No other mode of payment shall be accepted. The tenders of bidders who do not remit fees through online will be rejected outright.

14. Payment of Earnest Money Deposit (EMD): - The EMD shall be paid in online mode through the e-GP website www.etenders.kerala.gov.in at the time of bid submission. No other mode of remittance shall be accepted.

15. Exemption from payment of EMD: - Bidders who are registered with Store Purchase Department, Kerala or National Small Scale Industries Corporation Ltd., New Delhi (for the items tendered) are exempted from submission of EMD. Those bidders claiming exemption shall submit valid registration certificate from the SPD, Kerala or NSSIC, New Delhi.

Tenders of bidders who do not remit EMD online or do not upload documental proof (digitally signed) for exemption of EMD will be rejected outright.

16. Withdrawal and re-submission of e-Tender: - The Bidders are at liberty to withdraw the submitted tender/documents and to submit fresh tender/documents till the last date and time of submission of the e-Tender after which withdrawal/re-submission will not be allowed.

17. Opening of e-Tenders: - The bids shall be opened online through the e-GP website www.etenders.kerala.gov.in at the Police Headquarters, Vazhuthacaud, Thiruvananthapuram on the date and time mentioned above in the presence of the Bidders/ authorized representatives who wish to attend at the above address.
If the tender opening date happens to be a holiday or non-working day due to any valid reason, the tender opening process will be done on the next working day at the same time and place specified. Any change in the opening date/time/venue due to other reasons shall be informed by way of Corrigendum published in the e-GP website. The Technical Bids will be evaluated by a Technical Evaluation Committee and those that do not conform to the specifications or to the satisfaction of the Committee will be rejected. The financial bids of the Technically qualified Tenderers only will be considered for opening. The date of opening of financial Bids will be intimated to the concerned technically qualified tenderers, over phone/Fax/e-mail. This will be within 7 to 10 days of evaluation of technical bid.

18. Technical Evaluation: - All tenderers who quote for the supply of above equipment are required to be ready for live demonstration to be held in Forensic Science Laboratory, TVPM and the date of the venue which will be intimated in due course. In the event of firms not able to show live demonstration, they need to convince the Technical Evaluation Committee about such inability and resort to documentary/power point presentation with original product brochures/CDs/scale models/videos/slide shows etc. to the utmost satisfaction of the Technical Evaluation Committee.

19. All Bidders who participates in e-tender should produce hard copies of all relevant documents related to e tender at the time of technical evaluation, without fail.

20. Note to Bidders:
   i. Bidders have to procure legally valid Digital Certificate (Class III) as per Information Technology Act, 2000 for digitally signing their electronic bids. Bidders can procure the same from any of the license certifying authority of India. For more details, please visit the e-GP website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in).

   ii. Bidders are advised to note the Tender_Id and Tender No. & Date for future reference.

   iii. All uploaded documents should contain the signature and the office seal of the bidder/authorized persons and should be digitally signed while uploading. Documents uploaded without digitally signing shall entitle rejection of the tender.

   iv. In the case of Foreign Equipments, the rate should be quoted in Indian Rupees. Preference will be given to those who are ready to supply the item without opening Letter of Credit. Ordinarily, no advance payment will be made for
procuring the above item. In case advance payment has to be made, a clear case has to be made out by the Tenderee. However this will be only on extraordinary circumstances.

v. For obtaining Digital Signature Certificate and help on e-tendering process, contact

Kerala State IT Mission, e-Government Procurement PMU & Helpdesk, Basement floor of Pension Treasury Building, Uppalam Road, Statue, Thiruvananthapuram; Ph: 0471-2577088, 2577188; Toll free no: 18002337315; e-mail:etendershelp@kerala.gov.in; Website: www.etenders.kerala.gov.in on all government working days from 9:30 am to 5:30 pm.

vi) The Director, Forensic Science Laboratory is empowered to reject any tender without assigning any reason.

vii. For any clarifications regarding the terms and conditions in this tender notice or the tender document, please contact Director, FSL, Or Manager FSL, Thiruvananthapuram – 10 on all Government working days from 10:30 am to 5:00 pm. (Ph. No. 0471-2722136)(Ph. No. 0471-2722155)

NOTE: - Bidders are advised to go through the conditions in the notice inviting tender and the tender document carefully and comply them to avoid outright rejection of their tender.

For any litigation relating to this order, the jurisdiction will be Thiruvananthapuram City.

Sd/-

DIRECTOR

FORENSIC SCIENCE LAB
Specifications:

1. **BINOCULAR MICROSCOPE**

**Specifications:**

i. Stand: Single mold Sturdy stand with anti rust materials. Extended base for better stability with Ceramic Coated Stage Plate.

ii. Viewing Bodies: **Ergonomic HEAD Binocular 0° - 25° tilting Head**, 360° rotatable, IPD 47-75mm with height Adjustment.

iii. Eyepieces: Focusable wide Field eyepiece WF10x/22mm paired with foldable eye guards,

iv. Lockable, anti-fungus coating, graduated ring for setting of individual Eye Diopter.

v. Nosepiece: Quintuple Reverse angle nosepiece (Ball bearing type) with click stops and rubber grip, anti-gungus coating. PAR-CENTERED & PARFOCAL on CNC Machines.

vi. Objectives: RP series DIN Infinity Corrected WF Plan Achromatic objectives : 2.5X , 4x, 10x, 40x (spring loaded), 100x Oil (spring loaded) anti-fungus coating.

vii. Mechanical Stage: RACKLESS X-axis, Ceramic Coated double plate mechanical stage size 200 x 160mm X/Y travel range 76 x 50mm. Double Specimen holder

viii. Condenser: Flip top Sub Stage Sub-stage abbe condenser NA 1.25 with aspheric lens .Iris diaphragm with blue day light filter rack and pinion movements on stainless Steel guides.

ix. Focusing: Co-axial coarse and fine focusing on gear systems for extremely smooth operation. Fine adjustment 0.3mm/rotation

x. Illumination: Full kohler LED illumination with VARIABLE ILLUMINATION CONTROL.

xi. Electrical: For LED Input 180v-250v AC or for HL Input 220v-240v AC, with removable imported cord. LED Life more than 50,000 Hours & Back-up Battery for use where Power Supply failure

xii. PACKED in Styrofoam box, with operation manual, dust cover, cleaning cloth, power cord.
xiii. Warranty: 3 years or above

2. Trinocular research microscope with HDMI Camera, Computer and Printer.

   i. STAND: SINGLE MOLD STURDY STAND WITH ANTI RUST MATERIALS. EXTENDED BASE FOR BETTER STABILITY.
   
   ii. VIEWING BODIES: SIEDENTOPF TRINOCULAR TUBE, 30° INCLINED, 360° ROTATABLE, INTERPUPILLAR DISTANCE 48-75MM
   
   iii. Eyepieces: Wide Field eyepiece WF 10x/22mm paired with focusable eye guards, lockable, anti-fungus coating
   
   iv. Nosepiece: Quintuple Reverse angle nosepiece (Ball bearing type), with click stops and rubber grip
   
   v. Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives 2.5X 4x, 10x, 40x (spring) and100x (spring, oil), anti-fungus coating
   
   vi. Mechanical stage: Rackless X axis Ceramic coated double plate mechanical stage, size 200 x 160mm, X/Y travel range 76mm x 40mm
   
   
   
   ix. Focusing: Co-axial coarse and fine focusing on gear systems for smooth operation
   
   x. Illumination: LED Illumination with built-in rechargeable battery making it cordless during use cord
   

HDMI Camera with inbuilt storage of 8 GB or more

Specifications:-

   i. Illuminated CMOS sensor
   
   ii. All in 1 (HDMI+USB+SD card) C-mount camera with high sensitivity CMOS sensor
iii. Simultaneous HDMI & USB output
iv. Ultra low noise and low power dissipation
v. With advanced video & image processing application MICAPS Micro View
vi. Built-in mouse control
vii. Built-in image capture & video record to SD card
viii. Built-in camera control panel for mouse control
ix. Built-in toolbar including zoom, mirror, freeze, cross, compare & browser functions
x. Built-in image & video browsing, display
xi. Ultra-Fine color engine with perfect color reproduction Capability

**OTHER SPECIFICATIONS FOR HDMI OUTPUT:**

i. UI Operation: With USB Mouse
ii. Image Capture: High Speed in SD Card
iii. Video Record: 1080P 30fps in SD Card
iv. Camera Control Panel: Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
v. Toolbar: Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function

**OTHER SPECIFICATION FOR USB OUTPUT:**

i. White Balance: Auto White Balance
ii. Color Technique: Ultra-Fine TM Color Engine (USB)
iii. Capture/Control API: Standard UVC for Windows /Linux /Mac(USB)
iv. Recording System: Still Picture or Movie (USB)

**Computer specification:**

i5 computer system with Windows OS, RAM 8 GB (min), HDD 1TB (min)
Monitor 21 Inch, Key board (USB) and Mouse (USB)
Ink jet Colour Printer

Warranty: 3 years or above
3. Stereo Zoom Trinocular Microscope with HDMI Camera, PC and Printer

Optical System: Greenough
Magnification: 6:1, zoom
Eyepieces: WF 10x/22mm or better
Viewing Angle: Trinocular 45°
Diopter correction: ±5 diopters or better
IPD: 50-75 mm
Working distance: 110mm or better
Magnification Range: 8x to 50x
Object field diameter: 4.4 to 27.50 mm

Illumination Control:
- Incident Light-LED Ring Light with options of ARC and circular illumination with intensity control.
  - Front Angle Arc illumination with cluster of 11 LEDs
  - Rear Angle Arc illumination with cluster of 12 LEDs
  - Circular illumination with cluster of 23 LEDs
Inbuilt Goose neck for extra illumination

Transmitted light:
- Two options one with detachable Bright Field/Dark Field
  - Second with preconfigured mirror base for transparent objects

Auxiliary Objectives: 0.5x, 1.5x, 2x

HDMI Camera with inbuilt storage of 8GB

Specifications:

i. Illuminated CMOS sensor
ii. All in 1 (HDMI+USB+SD card) C-mount camera with high sensitivity CMOS sensor
iii. Simultaneous HDMI & USB output
iv. Ultra low noise and low power dissipation
v. With advanced video & image processing application MICAPS Micro View
vi. Built-in mouse control
vii. Built-in image capture & video record to SD card
viii. Built-in camera control panel for mouse control
ix. Built-in toolbar including zoom, mirror, freeze, cross, compare & browser functions
x. Built-in image & video browsing, display
xi. Ultra-Fine color engine with perfect color reproduction Capability

Other Specifications for HDMI Output:-
i. UI Operation: With USB Mouse
ii. Image Capture: High Speed in SD Card
iii. Video Record: 1080P 30fps in SD Card
iv. Camera Control Panel: Including Exposure, Gain, White Balance, Color Adjustment, Sharpness and Denoising Control
v. Toolbar: Including Zoom, Mirror, Comparison, Freeze, Cross, Browser Function

Other Specification for USB Output:-
i. White Balance: Auto White Balance
iii. Color Technique: Ultra-Fine™ Color Engine (USB)
iv. Capture/Control API: Standard UVC for Windows /Linux /Mac(USB)
v. Recording System: Still Picture or Movie (USB)

Computer specification:
i5 computer system with Windows OS, RAM 8 GB (min), HDD 1TB (min)
Monitor 21 Inch, Keyboard (USB) and Mouse (USB)
Ink jet Colour Printer
Warranty: 3 years or above