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Indian Institute of Technology Kanpur Samtel Centre for Display Technologies

Enquiry No. : SCDT/FlexE/2019-2020/30

Opening Date : 08.11.19 **Closing Date** : 14.11.19

Sealed quotations from prospective vendors are invited by National Centre for Flexible Electronics, IIT Kanpur for the purchase of **4 scientific cameras** with the following specifications. The camera will be installed in an existing fabrication tool of DOOSAN. Only authorized service providers of Doosan Mecatec should bid.

Technical Specifications:

- 1. The camera should be monochrome and have a resolution of at least 1280×1024 with NIR enhanced sensitivity and C mount.
- 2. The sensor size should be at least ½" with CMOS global shutter
- 3. The camera should be able to handle frame rate of at least 70 fps
- 4. Fast Ethernet (100 Mbit/s) or Gigabit Ethernet (1000 Mbit/s) should be provided and Synchronization Via external trigger, via the Ethernet connection should be possible.
- 5. Exposure Control Via external trigger or programmable via the camera API should be possible.
- 6. Housing Size should not be more than $(L \times W \times H)$ 45 mm \times 30 mm and the housing should withstand temperature Up to 50 °C. Camera should not weigh more than 100g.
- 7. The power requirement of the camera should comply: Power over Ethernet (IEEE 802.3af) or + 12VDC via the camera's 6-pin Hirose connector.
- 8. Total power consumption of the camera should not be more than 4W.
- 9. The camera should comply CE, FCC, IP30, RoHS, PoE (IEEE 802.3af) standards.
- 10. Required software/driver for data acquisition and control should be provided. Operating System should be Windows 10, Linux 32 bit or 64 bit.
- 11. Following suitable cards namely, POE board (2 No), Digital I/O (2 No), Motion control (2 No) and vision library (2 No) should be provided.
- 12. Camera cable (4 No) of at least 10 m length should be provided.

- 13. The supplier should install the camera in the existing equipment and make necessary software changes in the equipment to make it functional.
- 14. One-year warranty should be provided from the date of installation.

Terms and Conditions:

- 1. Bidder is requested to submit "technical and financial bids" together in sealed envelope.
- 2. Please do mention tender number clearly on envelop.
- 3. Evaluation will be done on the basis of technical specifications as per our tender notice.
- 4. Only authorised service providers of Doosan Mecatec should quote.
- 5. Quotation should carry proper certifications like proprietary certificate or authorization certificate from manufacturer.
- 6. The supplier must have supplied systems to institutions and companies of national and/or international repute.
- 7. Quotation must indicate DAP IIT Kanpur.
- 8. Payment terms & condition is 100% after installation and acceptance.
- 9. Warranty should be at least 1 years from the date of acceptance after installation.
- 10. Validity of quotation should be at least for 60 days.
- 11. Maximum educational institution discounts should be applied.
- 12. For any information regarding the work and clarifications, the undersigned could be contacted.
- 13. Delivery period should be within 1 months after PO. Installation and acceptance test should be finished within one month after delivery.
- 14. The Penalty @1% per week or part thereof subject to max 10% of the total price will be deducted from the balance payment, if installation is not completed within aforesaid period.
- 15. Concessional rate of GST (@ 5%) will be applicable with reference to Notification No. 45/2017 Central Tax (Rate) dated 14/11/2017. We will provide relevant certificate for this purpose. On import items for research purpose presently the GST applicable is 0% (Zero). DSIR certificate along with CDEC has to be submitted for availing concession. Vendor should use these GST rates in their quotation.
- 16. The indenter reserves the right to withhold placement of final order. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.

Kindly send the quotation latest by dated 14/11/2019 to the following address;

Dr. Muralidharan Balakrishnan, National Centre for Flexible Electronics Samtel Centre for Display Technologies, Indian Institute of Technology Kanpur Uttar Pradesh-208016, India.

Email: <u>muralib@iitk.ac.in</u> Contact: 0512-259-6589