राष्ट्रीय प्रौद्योगिकीसंस्थान, उत्तराखण्ड
NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

Ref.No.:NITUK/TEQIP-III/Procurement/2019/17/(XXVII)/ Date:18.06.2019

ORDER TO BE PLACED UNDER PROPRIETARY CERTIFICATE

National Institute of Technology, Uttarakhand is going to place order for following software under proprietary article basis. Objection(s) if any, in this regard are called upon at **teqipthird@nituk.ac.in** from party/organization latest by the 9thJuly, 2019 before 05:00 PM.

In case of no objection received from any firm/agency on or before the above mentioned date and time, then order will be placed as under:

S. No.	Item	Party (Proprietary)	Sole Authorized Distributor in Indiaauthorized to quote/sale/supply the item on behalf of OEM to the Institute doing the procurement or the jurisdiction of area covered	Qty.	Specifications
1.	Aero	Quanser Consulting Inc., 119 Spy Court, Markham, Ontario Canada	Edutech India Pvt. Ltd. Crystal Lawn, No 20 Haddows Road, Chennai – 600006, India	01 (One)	enclosed

Sd/-

Coordinator (TEQIP-III)

Encl:

1. Copy of Specification
2. Copy of OEM certificate(s)

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Specifications

S. No.	Item Description	Specifications
1.	AERO	Aero should be a Dual-rotor aerospace experiment with reconfigurable dynamic components for mechatronics exploration and controls. The experiment should be reconfigurable for various aerospace systems, from 1 DOF and 2 DOF helicopter to half-quadrotor. It should integrate with QFLEX 2 computing interface technology, the AERO should also offer flexibility in lab configurations, using a PC, or microcontrollers, such as Arduino and Raspberry Pi. Technical Specifications: a. Device height - 35.6 cm (with propeller in horizontal position) b. Device length - 51 cm c. Device mass - 3.6 kg d. Yaw angle range - 360º e. Elevation angle range - 124º (± 62º from horizontal) half-quadrotor configuration f. Pitch / yaw current torque constant - 57.7 Nm/A g. Tri-axis gyroscope range - ± 245 dps h. Tri-axis accelerometer range - ± 2g i. QFLEX 2 interface options - USB 2.0 SPI Features: a. Compact and integrated system b. Built-in voltage amplifier with integrated current sensor c. Integrated data acquisition (DAQ) device d. Flexible QFLEX 2 computing interface for USB and SPI connections e. User-controllable tri-color LED f. Open architecture design, allowing users to design their own controller g. Fully compatible with MATLAB®/Simulink® and LabVIEW™

		h. Fully documented system models and parameters provided for MATLAB®/Simulink®, LabVIEW™ i. ABET-aligned, modular, digital media courseware provided for the AERO USB Workstation: a. Aero Plant b. QFlex2 Interface panel: USB or Embedded c. Real-Time control software for Matlab/Simulink

QUANSER
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May 9, 2019

PROPRIETARY ITEM CERTIFICATE

Quanser is the world leader in education and research-based systems for real-time control design and implementation, providing control challenges for all levels of university education and research.

We confirm that the Quanser's solutions are proprietary Control lab systems, incorporating combination of specialized hardware and control software. We are the sole Manufacturers of this system in the world. **M/s. Quanser Consulting Inc., 119 Spy Court, Markham, Ontario, CANADA L3R 5H6:**

- **Quanser Aero**
- **QBot 2e ground robot**
- **SRV02 with Ball and Beam**

We also confirm that M/s. **Edutech India Pvt Ltd** 20, 1st Street, Haddows Road, Chennai - 600006, India, is authorized to sell all our products and is our distributor in India.

Please contact the undersigned for any queries on this subject.

Sincerely,

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