

राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखण्ड
NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

Ref.No.: NITUK/TEQIP-III/Procurement/2019/17/(XVII)/

Date:

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 26th June, 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 India authorized 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.	CAD tool for the simulation and analysis of the atomic scale properties of nanoscale devices	Synopsys International Ltd., Dublin-15, Ireland	M/s Integrated micro System C-210, Mayfield Gardens, Sector-50, Gurgaon, Haryana- 122018 Email: info@ims-india.org Contact No.: 9311093429	1 (One) having 05 perpetual licenses with minimum maintenance of 01 Year	enclosed

Sd/-
Coordinator (TEQIP-III)

Encl:

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

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Specifications

S. No.	Item Name	Specifications
1.	CAD tool for the simulation and analysis of the atomic scale properties of nanoscale devices	<p>(5 perpetual licenses with minimum maintenance of 01 Year)</p> <p>Numerical engine should have following features:</p> <p>Electronic structure and electron transport, Calculations on molecules, periodic systems and two-probe systems, Ab initio DFT methods, capable of modelling electrical properties of nanostructured systems coupled to semi-infinite</p> <p>Electrodes, can calculate transmission spectrum and current-voltage characteristics,</p> <p>Visualize atomic geometries and calculated physical quantities in 3D, Get assistance in setting up samples and choosing simulation parameters</p> <p>Spin-polarized calculation of current, transmission, and energy spectra, Molecular levels and orbitals, HOMO/LUMO level for molecular systems.</p> <p>Calculation of electron density and effective potentials, conventional electronic structure simulations, including spin-polarized calculations and optimized atomic geometries, of periodic and isolated systems</p> <p>Based on self-consistent density functional theory (DFT) and non-equilibrium Green's functions.</p> <p>Must have Extensive set of experiments/examples given like Carbon Nanotube structures, Semiconductor Nanowires, Molecular Diodes, Crystalline Magnetotunnel junctions, Switching mechanism, Metallic contacts etc.</p> <p>Package must supports graphical user interface the scripting interface.</p> <p>allows to include any number, shape, and configuration of gates, both dielectric and metallic for a realistic simulation of transistor like structures.</p> <p>Should be compatible with Synopsys TCAD and EDA.</p>

SYNOPSYS®

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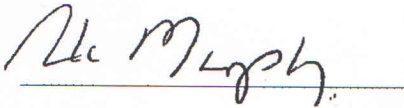
11th January 2018

To Whom it may concern

Certificate of Distributorship

Synopsys International Limited is a wholly-owned subsidiary of Synopsys Inc, the owner of the intellectual property rights in Synopsys EDA software products including the software products of QuantumATK software products.

With this letter, we certify that Integrated Microsystem is an authorized distributor for government agencies and academic institutions in India of the QuantumATK software products from Synopsys.



Orla Murphy
Director of Synopsys International Limited

