

राष्ट्रीय प्रौद्योगिकी संस्थान, उत्तराखण्ड
NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

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

Date: 06.08.2019

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 **20th August, 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.	Synopsys AsiaPAC Advance TCAD (3D) University Bundle	Synopsys International Limited, Dublin 15, Ireland	EIGEN Technology Pvt. Ltd. 2nd & 3rd Floor, C-30, Community Centre, Janakpuri, New Delhi-110058 Email: contactus@eigen.in Contact No.: 011 41643004	01 (One) having 03(3D) and 06(2D) licenses minimum duration of three years	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.	Synopsys AsiaPAC Advance TCAD (3D) University Bundle	<p>o3(3D) and o6(2D) licenses minimum duration of three years.</p> <p>Should be in Production use by at least 10 of the top 20 Semiconductor manufacturing companies.</p> <p>Multidimensional semiconductor process modeling and simulation for process steps such as oxidation, diffusion, ion implantation, deposition, etching, and silicidation. Must account for the impact of stress on dopant diffusion, including anisotropic effects.</p> <p>Must support scripting language for custom diffusion models and allow users to describe and implement their own models and diffusion equations.</p> <p>Must be able to perform multi-dimensional device simulation. Must be able to handle disordered material systems like amorphous and polycrystalline materials. Must be able to simulate the electrical, thermal and optical behavior of semiconductor devices. Must be able to simulate Electro-static Discharge effects (ESD) in devices. Must support different simulation modes such as transient, DC/AC, optical AC, large signal, harmonic balance, and mixed-mode circuit simulation with SPICE, Support for Process Emulator function.</p> <p>Must support the following process and device technologies: Silicon: CMOS (including strained silicon), Bipolar, BiCMOS, BCD; Heterostructures: MESFET, III-VHBT, SiGe HBT, HEMT, HFET, MODFET, APD; VDSM/Nanometer: CMOS, FinFET, FD, PD and double-gate SOI; Power: BJT, IGBT, LDMOS, DMOS, MCT, TRIAC, High Voltage Rectifiers Memories: Flash, SONOS, EEPROM, DRAM, Phase Change Memory; Optoelectronics: CCD, solar cell, photo detectors, III-V binary, ternary and quaternary compound materials.</p> <p>Visualize output characteristics like potential distribution inside complex 3D shapes. High-level TCAD environment, which should allow user to organize of simulation project.</p> <p>The tool must support the following device / process models and characteristics: Anisotropic and Ferro material models Stress-dependent mobility models for holes and electrons Deatomization: must allow importation of discrete dopant distributions, from example for a kinetic Monte Carlo simulator, to account for electrical impact of discrete dopants on electrical characteristics to simulation, among other effects, RDF effect. Atomization: generation of multiple randomized structures from single continuous doping profile Radiation models: V and J, SEU, Transport and oxide trapping, Total dose effect Optical generation models</p>

Authorization & Proprietary Certificate



Synopsys International Limited
Block I
Blanchardstown Corporate Park,
Blanchardstown,
Dublin 15, Ireland

Annexure IV

Date: Aug 29, 2018

To
The Director
National Institute of Technology Uttarakhand
Srinagar Garhwal- 246174-Uttarakhand-INDIA

Ref: Certificate of Representative

Dear Sir/Madam,
Subject to all terms and conditions regulated in the Synopsys Authorized Distributor Agreement (agreement number D-70018388) signed by and between Synopsys International Limited and Eigen Technologies Pvt. Ltd., dated June 19, 2012, we hereby certify the following:

Eigen Technologies Pvt. Ltd. ("Eigen") is the sole distributor authorized to represent Synopsys International Limited, during the period from June 19, 2012 to June 18, 2019, for the sales of Synopsys Products as set forth in the Annex herein to your organization in all India except Kerala, Karnataka, Andhra Pradesh, Telangana and Tamilnadu States.

Eigen is located at:
2nd & 3rd Floor, C-30, Community Centre,
Janakpuri, New Delhi-110058.

Synopsys hereby also certify that the article "9499-0 Synopsys Asia Pac 2D TCAD University Bundle, 4458-0 Synopsys Asia Pac Advance (3D) TCAD University Bundle" are proprietary items of Synopsys Inc., or its subsidiaries ("Synopsys").

Synopsys is the sole source of the Article.

Only the formally signed version of this Certificate will be deemed valid.

Annex: Synopsys Product eligible for sale to NIT Uttarakhand.

Synopsys International Limited

Signature

Orla murphy

Printed Name

Orla Murphy

Title

Director

Date 03 september 2018

