राष्ट्रीय प्रौद्योगिकीसंस्थान, उत्तराखण्ड
NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

Ref.No.: NITUK/TEQIP-III/Procurement/2020/17/(XLV)/3418   Date:28.12.2020

ORDER TO BE PLACED UNDER PROPRIETARY CERTIFICATE
(Package Name: NITUK/2020/EE/02/SIMULATION LAB, Package Code: TEQIP-III/2020/nitu/95)

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 28th January, 2021 before **04:30 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.	PSCAD Software PSCAD X4 or higher version, Academic License-5 Seat Certificate License and PSCAD X4 Professional License forAcademic Use-1Seat Certificate License (Perpetual License with 01 year warranty)	Manitoba Hydro International Ltd., 211 Commerce Drive, Winnipeg, Manitoba, R3P 1A3 Canada	M/s Nayak Power Systems, Ashar Millennia, Suite-507, 5th Floor, Kapurbawdi Junction, Ghodbunder Road, Thane (W)- 400607 Email:sagar@nayakpower.com Contact No.: 9867270155	01	enclosed

Sd/-
Coordinator, (TEQIP-III)

Encl:

1. Copy of Specifications

Specifications

S. No.	Item Name	Specifications
1.	PSCAD X4 or higher version, Academic License-5 Seat Certificate License and PSCAD X4 Professional License forAcademic Use-1Seat Certificate License (Perpetual License with 01 year warranty)	Software should have the ability to simulate and analyze the Power Systems transients. It should allow the user to schematically construct a circuit, run a simulation, analyze the results, and manage the data in a completely integrated graphical environment. The software should have the comprehensive library of power systems and controls models. The following list of functional groups of components should be available in the software. • Fixed and variable resistors (R), inductors (L), capacitors (C) • Mutually coupled windings, such as transformers, saturable inductors • Frequency dependent transmission lines and cables including phase domain line model • Current and voltage sources • Switches and breakers with optional pre-insertion resistance • Diode, thyristor, GTO, IGBT, and other power electronic switching devices • Analogue and digital control functions, Laplace functions and signal generators • Ac and Dc machines, exciters, governors, stabilizers and inertial models • Meters and measuring functions • Generic DC and AC controls • HVDC, SVC, FACTS and Power Electronic Converters and their control circuits