

Ref. No.: NITUK/C.Store/2017-18/2337

Date: 04th January 2018

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 stores.nituk@gov.in from party/organization latest by the dated 25th January 2018 before 5:00pm.

In case of no objection order will be placed as under:

S.No.	Item	Party (Proprietary)	Sole Authorized Distributor in India	Qty Reqd.	Specifications
1.	DlgSilent Power Factory Software	M/s DlgSILENT Gmbh, Heinrich-Hertz-Strasse 9, 72810 Gomaringen, Germany	M/s DELLSOFT Technologies Pvt. Ltd., WZ-29, 1 st Floor, Uggrasain Market, Ashok Nagar, New Delhi-110018, India	01	As per Annexure-1 attached

Sd/-
REGISTRAR

Annexure-1

Specification of the DIgSILENT software

As per the requirements in the academia the simulation software should have following features:

Load flow Analysis:-Balanced and unbalanced load flow for AC/DC/ combined AC and DC grids

Short circuit analysis:-Support of IEC 60909, Standards ANSI / IEEE C37 Standards, IEEE 141 Standards and Multiple Fault Analysis

Distribution network functions: Dynamic model of distribution system elements, Optimal Capacitor Placement, Voltage Stability, Unbalanced Load Flow, Unbalanced Short circuit Analysis, Reliability Assessment.

Electromagnetic Transients (EMT):-Switching Transient, Insulation Coordination, Simulation of FACTS, HVDC interconnection etc.

State Estimation:-P,Q, I, V measurement models, Bad data detection/elimination, Verification of system.

Protection & Coordination:- Different protection devices model library, Overcurrent Protection, Distance Protection

Renewable Energy:- Model Wind turbine generators, Detailed modeling of turbine dynamics, aerodynamics and power coefficients, DFIG with pitch and converter controllers, simulate wind disturbance like ramp & gust, Photovoltaic array: Solar farm modeling, Solar irradiance model, Inverter dynamic modeling and operation modes, MPPT

Dynamic Simulation:-User defined dynamic model, Synchronous and induction machine models, Power system stabilizer model, FACTS and HVDC dynamic models.

DigSILENT GmbH · Heinrich-Hertz-Straße 9 · 72810 Gomaringen

MANUFACTURERS' AUTHORIZATION CERTIFICATE

Ref. No: DigSILENT/PF4E&PF4R/2017

Dated: 04 October 2017

TO WHOM IT MAY CONCERN

We, M/S DigSILENT GmbH, Germany who are established and reputable manufacturers of DigSILENT PowerFactory Software (PF4E / PF4R) having factories at Heinrich-Hertz-Strasse 9, 72810 Gomaringen, Germany do hereby confirm that

M/s DELLSOFT Technologies Pvt. Ltd.,
Located at WZ- 29, 1st Floor, Uggrasain Market, Ashok Nagar, New Delhi –110018, INDIA
E-Mail: info@dellsoft.in , Website : www.dellsoft.in

is our Sole Authorized Distributor for our Software DigSILENT PowerFactory4Research and PowerFactory4Education (PF4R and PF4E) in India.

We hereby extend our technical support, guarantee and warranty for these software offered for supply by the above firm.

Yours faithfully,

M. Bergmann
Martina Bergmann

Manager Sales Administration

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DigSILENT GmbH · Heinrich-Hertz-Straße 9 · 72810 Gomaringen

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Dated: 04 October 2017

Proprietary Item Certificate

This is to certify that **DigSILENT PowerFactory Software (PF4E/PF4R)** is/are a Proprietary Product, manufactured by our company/firm M/S DigSILENT GmbH, Germany located at Heinrich-Hertz-Strasse 9, 72810 Gomaringen, Germany.

This item is SOLELY manufactured by our company/firm M/S DigSILENT GmbH, Germany and not by any other company/firm in the World.

The undersigned is authorized to issue this 'Proprietary Item Certificate' on behalf of the company/firm M/S M/S DigSILENT GmbH, Germany

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