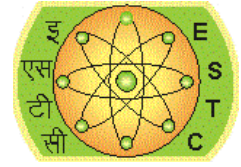




इलेक्ट्रॉनिकी सेवा एवं प्रशिक्षण केन्द्र
ELECTRONICS SERVICE & TRAINING CENTRE
भारत सरकार की सोसायटी
सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय
Government of India Society



ESTC/SP/NC/2(5)/2018-19/98

Dated:25 /05/ 2018

Messers _____

Sub: TENDER DOCUMENTS.

Dear Sir,

Online Techno-Commercial tenders under Double bid system are invited from the manufacturers/suppliers for the PLC 3D Simulation Software(Siemens)- Single User- 01 No.

A set of tender documents containing detailed specifications including terms and conditions for the PLC 3D Simulation Software(Siemens) is attached herewith as Annexure-I.

You are requested to fill up the tender document strictly as per the enclosed format. The specifications of the item offered by you must be indicated against our required specifications.

Last date for online receipt of tenders duly complete in all respects is 11th June 2018 before 5.00 PM. The Online techno-commercial bids shall be opened on 13th June 2018 at 11.30 AM.

Thanking you.

Yours faithfully,

Sd/-

(S.K. Chetti)
Principal Director

Encl: As above.

KANIYA, RAMNAGAR, DISTT.NAINITAL- 244715 (UTTARAKHAND)
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ANNEXURE-I

PLC 3D Simulation Software (Siemens)- Single user-01 No.

Specifications

Simulation systems provide effective support with the development of programs and the following actual application. In the automation environment, a simulated test environment including PLC and process reduces startup times and thus costs, for example.

Early discovery of programming errors and optimization of program sections enable the optimized and error free use of the programs in the actual system. If a program is modified, it can be tested prior to loading it onto the plant control system.

S7-PLCSIM V5.x is the simulation tool for the controller families S7-300 / S7-400 in combination with STEP 7 V5.x.

For smaller simulation tasks with the new controllers S7-1200/ S7-1500/ ET 200SP CPU the PCSIM functionality is integrated in the corresponding STEP7 V14 versions (Basic or Professional)

S7-PLCSIM Advanced, the optional software package for STEP7 V14 has been designed for more complex simulations with the new controllers eg. by employing virtual controllers.

SIMATIC S7-PLCSIM simulates a controller for functional testing of user blocks and programs for S7-300 and S7-400 on the programming device/PC. Online access and test functions of the programming tools can be carried out in exactly the same manner as with a real controller. This allows the entire program test to be carried out on-site in the development office. The facility to simulate the communication via MPI, PROFIBUS DP and TCP/IP is new and ensures a high degree of flexibility in the simulation.

PLCSIM is capable of working with multi-instances from Version 5.4 SP3. It is possible to start several PLCSIM and test several controllers simultaneously. After the program download the instance adopts the station's name.

Design and functions

S7-PLCSIM executes the user program just like a real controller (special functions such as F technology only conditionally). During program execution, different process values can be monitored and changed via a simple user interface (e.g. switching inputs/outputs on or off).

Link-up with an external process simulation

The S7-ProSim interface is used for linking up to external process simulation systems. Dynamic access to process values is possible via this interface. The PROSIM Interface is using the COM Object and is programmable for example with the Microsoft Visual Studio C++ V6.0 and the Microsoft Visual C++ .NET.

Electric (IEC and JIC):- 7 segment display ,Coder ,Fuse ,Heating element ,Sound signaling hooter ,Thermal relay with safety contact ,Voltmeter ,Block ,2 positions switch ,3 positions switch ,Contact NC ,Contact NO ,Contact with off delay NC ,Contact with off delay NO ,Contact with on delay NC ,Contact with on delay NO ,Contact with on-off delay NC ,Contact with on-off delay NO ,Disconnecting switch with fuse ,Disconnecting switch with switch ,Disconnecting switch ,Magneto thermal disconnecting switch circuit breaker ,Position switch NC ,Position switch NO ,Power contact NO ,Proximity switch NC ,Proximity switch NO ,Push button NC ,Push button NO ,Switch NC ,Switch NO ,Thermal disconnecting switch circuit breaker ,Jump ,Label ,Ac variable speed transmission ,Dc variable speed transmission ,Motor DC current ,Single phase motor ,Three phase motor on single phase source 1 ,Three phase motor on single phase source 2 ,Three phase motor starting star triangle ,Three phase motor with two speed ,Three phase motor ,Coil latch (reset) ,Coil latch (set) ,Coil with double pilot ,Coil with off delay ,Coil with on and off delay ,Coil with on delay ,Coil ,Light ,Solenoid ,Common (0 volt) ,DC power supply ,Ground ,Power supply 24 volts ,Power supply L1 ,Power supply L2 ,Power supply L3 ,Power supply Neutral ,Transformer ,Magnetic sensor ,Proximity sensor.

Pneumatic:-Air dryer ,Automatic drain coalescing filter ,Coalescing filter 1 ,Coalescing filter 2 ,Cooler ,Differential pressure gauge ,Filter and separator ,Filter ,Gas-loaded accumulator with separator ,Gas-loaded accumulator without separator ,General accumulator ,Indicator 2 ,Indicator ,Lubricator ,Manual drain coalescing filter ,Manual drain filter ,Pressure gauge ,Pressure reducer ,Silencer ,Vacuum generator ,Valve ,Motor 1 direction ,Motor 2 directions ,Rotary actuator ,Vacuum cup ,Bellow actuator ,Brake ,Double acting cylinder with sensors ,Double acting cylinder ,Single acting cylinder spring exit with sensors ,Single acting cylinder spring exit ,Single acting cylinder spring return with sensors ,Single acting cylinder spring return ,Cylinders\Small ,Cylinders\Brake\Double acting cylinder ,Cylinders\Brake\Single acting cylinder spring exit ,Cylinders\Brake\Single acting cylinder spring return ,Cylinders\Long\Double acting cylinder ,Cylinders\Long\Single acting cylinder spring exit ,Cylinders\Long\Single acting cylinder spring return ,Cylinders\Small\Double acting cylinder ,Cylinders\Small\Single acting cylinder spring exit ,Cylinders\Small\Single acting cylinder spring return ,Directional valves 2/2 ,Directional valves 3/2 ,Directional valves 3/3 ,Directional valves 4/2 ,Directional valves 4/3 ,Directional valves 5/2 ,Directional valves 5/3 ,Check valve ,Pilot to close check valve ,Pilot to open check valve ,Quick exhaust valve ,Throttle one-way ,Throttle ,Variable throttle ,Compressor ,Exhaust ,Plug ,Pressure source ,Compressor\Compressor with three phase motor ,Compressor\Compressor ,Jump ,Label ,AND ,Counter ,INH ,NAND ,NOR ,NOT (2inputs) ,NOT ,OR ,YES (2 inputs) ,YES ,Conditioning unit with lubricator ,Conditioning unit ,Piloted pressure regulator ,Piloted pressure relief valve ,Pressure regulator ,Pressure relief valve ,Sequence valve ,Variable pressure regulator ,Variable pressure relief valve ,Variable sequence valve ,push button NO ,push button with detent NC ,push button with detent NO ,push button NC , Not threshold sensor ,Pressure sensor ,Sequencers\Entry module ,Sequencers\Exit module ,Sequencers\Memory with reset activation ,Sequencers\Memory with set priority ,Sequencers\Step module ,Timer with negative output ,Timer with positive output.

Hydraulic:-Accumulator ,Air cooler ,Air filter ,Cooler with thermal switch ,Cooler-heater with thermal switch ,Cooler-heater ,Cooler ,Differential pressure gauge ,Filter ,Fluid cooler with thermal switch ,Fluid cooler ,Gas loaded accumulator without separator ,Heater ,Indicator ,Lubricator ,Pressure gauge ,Pressure indicator ,Spring-loaded accumulator ,Valve ,Weight-loaded accumulator ,Cylinders ,Motor 1 direction ,Motor 2 directions ,Rotary cylinder ,Cylinders\Brake ,Cylinders\Double acting cylinder ,Cylinders\Long ,Cylinders\Single acting cylinder with spring exit ,Cylinders\Small ,Cylinders\Spring acting cylinder with spring return ,Cylinders\Brake\Double acting cylinder ,Cylinders\Brake\Single acting cylinder spring exit ,Cylinders\Brake\Single acting cylinder spring return ,Cylinders\Long\Double acting cylinder ,Cylinders\Long\Single acting cylinder spring exit ,Cylinders\Long\Single acting cylinder spring return ,Cylinders\Small\Double acting cylinder ,Cylinders\Small\Single acting cylinder spring exit ,Cylinders\Small\Single acting cylinder spring return ,Directional valves 2/2 ,Directional valves 3/2 ,Directional valves 3/3 ,Directional valves 4/2 ,Directional valves 4/3 ,Directional valves 5/2 ,Directional valves 5/3 ,Check valve ,Parachute valve ,Pilot operated check valve ,Pilot to close check valve ,Spring loaded check valve ,Throttle valve ,Variable throttle valve ,Plug ,Pressure source ,Reservoir ,Jump ,Label ,Counterbalance valve ,Piloted counterbalance valve ,Piloted pressure reducing valve ,Piloted pressure relief valve ,Pressure reducing valve ,Pressure relief valve ,Sequence valve ,Variable counterbalance valve ,Variable pressure reducing valve ,Variable pressure relief valve ,Variable sequence valve ,Pressure sensor. Digital electronic:-Power sources, 3 to 8 coder, 4 bits comparator, 7 segment decoder, 8 to 3 coder, BCD decoder, 4 bit asynchronous counter, Down counter, Up counter, Digital voltmeter, Logical probe, Flip-flop D, Flip-flop Jk, Flip-flop Jk t, Flip-flop SR, Flip-flop Srt, Flip-flop T, Logical gates And, Logical gates Nand, Logical gates No, Logical gates Nor, Logical gates Or, Logical gates Yes, Clock, Sequencer, Common(0 volt), Positive power.

TERMS & CONDITIONS:-

1. The Online Techno-Commercial tender (Under Double Bid System) should be submitted.
2. The rates quoted should be on F.O.R. destination basis.
3. The tender/quotation should remain valid for 90 days from the date of opening of the tender.
4. The tender/quotation should be made in lump-sum price separately for any/each item.
5. In case available on DGS&D rate contract, please attach valid Registration Certificate.
6. 90% payment shall be made on receipt of the item in satisfactory condition & successful installation and balance within 30 days.
7. (a) A demand draft/ CBS Cheque amounting Rs 10,000/- (Rupees ten thousand only) in the name of the Principal Director, Electronics Service & Training Centre payable at Ramnagar towards lump-sum amount of Earnest Money (Refundable) must be submitted at Electronics Service & Training Centre, Ramnagar by 11th June 2018 before 5.00 PM. The same will be forfeited, if the execution of the order is not made in time. The offers without Earnest Money Deposit will be considered as unresponsive and will be rejected.
(b) Parties registered with DGS&D/NSIC/Other under Government Store purchase programme are exempted from the payment of Earnest Money. A photocopy of the valid Registration Certificate must be attached with the Techno-Commercial Bid.
8. The Principal Director, Electronics Service & Training Centre, Ramnagar does not undertake any responsibility for online submission of tenders and also reserves the right to reject any or all the tenders either in the part or full without assigning any reason thereof.
9. The tender/quotation should be addressed to the Principal Director, Electronics Service & Training Centre, Ramnagar as “ **TENDER/QUOTATION FOR " PLC 3D Simulation Software**” and should be submitted online latest by **11th June 2018 before 5.00 PM.**
10. The Online Techno-Commercial bids shall be opened online on **13th June 2018 at 11.30 AM.**
11. The Purchase Committee has the right not to accept the lowest rates quoted by the suppliers/ manufacturers without assigning any reason.
12. Non fulfilling of any of the conditions, the tenders/quotations are liable to be rejected.
13. The decision of the Purchase Committee shall be final and binding on all the parties.
14. Conditional, late, incomplete and telegraphic tenders or tenders without earnest money shall not be accepted.
15. The tender documents can also be downloaded from **Website: <https://eprocure.gov.in/cppp/>**

16. The manufacturers/ suppliers should clearly mention about the following points:-
- (i) Price quoted is on F.O.R. Destination basis.
 - (ii) Packing & Forwarding Charges.
 - (iii) GST Charges
 - (iv) Freight Charges.
 - (v) Transit Insurance.
 - (vi) Installation & Commissioning Charges.
 - (vii) Place of Inspection.
 - (viii) Delivery Period.
 - (ix) Manufacturing authorization certificate for the items quoted in tender.
 - (x) Guarantee/ Warrantee/Support.
 - (xi) Validity of offer.
 - (xii) Whether Earnest Money Deposited or Registered with DGS&D/NSIC/Other.
 - (xiii) Payment terms.
17. All disputes are subject to Nainital jurisdiction.

Sd/-

(S.K. Chetti)
Principal Director