

## REQUEST FOR QUOTATION LOCAL PURCHASE SECTION

**RFQ NUMBER** : 2412501031  
**DATE** : 02.07.2025  
**REQ No** : 1032406208  
**REQ TITLE** : Modeling Software 1032406208  
**DELIVERY LOCATION**  
**CLOSING DATE** : 08.07.2025  
**CLOSING TIME** : 10:00:00

SL NO	ITEM CODE	SERVICE ID	DESCRIPTION	QTY	UOM	BRAND/ORIGIN	WARRANTY	UNIT PRICE	TOTAL PRICE
1		ITEM-00001	NUMERIC COMPUTING PLATFORM TO ANALYZE DATA, DEVELOP ALGORITHMS, ANDCREATEMODELS TO EXECUTE ON PHIL REAL TIME SIMULATORS. LIVE EDITOR FOR CREATINGSCRIPTS THAT COMBINE CODE, OUTPUT, AND FORMATTED TEXT IN AN EXECUTABLENOTEBOOK. MODEL - DATA ANALYSIS, GRAPHICS, PROGRA MMING, HARDWARECONNECTIONS, PARALLEL COMPUTING.PURCHASE INCLUDING INSTALLATION OF OPAL RT SIMULATOR MODELING SOFTWAREBUNDLECONTACT P ERSON: SAJAN.KADUVETTY@DEWA.GOV.AE	2	AU				
2		ITEM-00001	BLOCK DIAGRAM ENVIRONMENT FOR MULTIDOMAIN SIMULATION AND MODEL-BASEDDESIGN TO ENHANCE THE PHIL REAL TIME SIMULATOR AND DATA ANALYTIC SPROJECTS.IT SUPPORTS SYSTEM-LEVEL DESIGN, SIMULATION, AUTOMATIC CODE GENERATION,ANDCONTINUOUS TEST AND VERIFICATION OF EMBEDDED SYS TEMS WITH GRAPHICAEDITOR,CUSTOMIZABLE BLOCK LIBRARIES, AND SOLVERS FOR MODELING	2	AU				

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			AND SIMULATING DYNAMIC SYSTEMS. IT IS INTEGRATED WITH RT-LAB, ARTEMIS, MATLAB ETC.						
3		ITEM-00001	SIMULATION CODER - GENERATES C AND C++ CODE FOR A VARIETY OF HARDWARE PLATFORMS INCLUDING OPAL RT, FROM DESKTOP SYSTEMS TO EMBEDDED HARDWARE. IT SUPPORTS MOST OF THE LANGUAGES AND A WIDE RANGE OF TOOLBOXES.	2	AU				
4		ITEM-00001	REAL-TIME WORKSHOP GENERATES AND EXECUTES C AND C++ CODE FROM SIMULINK MODELS, STATEFLOW CHARTS, AND MATLAB FUNCTIONS FOR REAL TIME SIMULATION OF POWER SYSTEMS AND POWER ELECTRONICS RESEARCH.	2	AU				
5		ITEM-00001	MULTI BODY SIMULATION MODULE: MULTIBODY SIMULATION MODULE PROVIDES A MULTIBODY SIMULATION ENVIRONMENT FOR THREE-DIMENSIONAL MECHANICAL SYSTEMS, SUCH AS ROBOTS, VEHICLE SUSPENSIONS, AND CONSTRUCTION EQUIPMENT. YOU MODEL MULTIBODY SYSTEMS BY ASSEMBLING BLOCKS REPRESENTING	2	AU				

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			G BODIES, JOINTS, AND FORCE ELEMENTS INTO A SCHEMATIC. IT PROVIDES SPECIALIZED SOLVERS FOR PHYSICAL SYSTEM, ENABLING ACCURATE SIMULATION FOR MULTI-DOMAIN SYSTEMS WITH INTERACTIONS BETWEEN VARIOUS PHYSICAL DOMAINS.						
6		ITEM-00001	MODEL AND SIMULATE ELECTRONIC, MECHATRONIC, AND ELECTRICAL POWER SYSTEMS. SIM POWER SYSTEMS AND SIM ELECTRONICS PROVIDES COMPONENT LIBRARIES FOR MODELING AND SIMULATING ELECTRONIC, MECHATRONIC, AND ELECTRICAL POWER SYSTEMS. IT INCLUDES MODELS OF SEMICONDUCTORS, MOTORS, AND COMPONENTS FOR APPLICATIONS SUCH AS ELECTROMECHANICAL ACTUATION, SMART GRIDS, AND RENEWABLE ENERGY SYSTEMS. YOU CAN USE THESE COMPONENTS TO EVALUATE ANALOG CIRCUIT ARCHITECTURES, DEVELOP MECHATRONIC SYSTEMS WITH ELECTRIC DRIVES, AND ANALYZE THE GENERATION, CONVERSION,	2	AU				

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			ON, TRANSMISSION, AND CONSUMPTION OF ELECTRICALPOWERAT THE GRID LEVEL						
7		ITEM-00001	STATE TRANSITION DIAGRAMS MODULE:IT PROVIDES A GRAPHICAL LANGUAGE THAT INCLUDES STATE TRANSITIONDIAGRAMS, FLOWCHARTS, STATE TRANSITI ON TABLES, AND TRUTH TABLES. YOU CAN USE THEMODULE TODSCRIBE HOW ALGORITHMS AND MODELS REACT TO INPUT SIGNALS, EVENTS, ANDTIMEBASED CONDITIONS.THE MODULE ENABLES YOU TO DESIGN AND DEVELOP SUPERVISORY CONTROL, TASKSCHEDULING, FAULT MANAGEMENT, COMMUNICATION PROTOC OLS, USER INTERFACES,AND#HYBRID SYSTEMS.WITH THIS MODULE YOU MODEL#COMBINATORIAL AND SEQUENTIAL DECISION LOGICTHATCAN BE SIMULATED A S A#BLOCK WITHIN A ELECTRICAL MODEL#OR#EXECUTED#ASAN#OBJECTIN THE MODELING PLATFORM. GRAPHICAL ANIMATION ENABLES YOU TO ANALYZE ANDD EBUG YOUR LOGIC WHILE IT IS EXECUTING.	2	AU				

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			EDIT-TIME AND RUN-TIME CHECKS ENSURE DESIGN CONSISTENCY AND COMPLETENESS BEFORE IMPLEMENTATION.						
8		ITEM-00001	NO-LINEAR OPTIMIZATION MODULE BOX FOR PHIL SIMULATION WITH OPAL RT SIMULATOR: IT PROVIDES FUNCTIONS FOR FINDING PARAMETERS THAT MINIMIZE OR MAXIMIZE OBJECTIVES WHILE SATISFYING CONSTRAINTS. THE TOOLBOX INCLUDES SOLVERS FOR LINEAR PROGRAMMING (LP), MIXED-INTEGER LINEAR PROGRAMMING (MILP), QUADRATIC PROGRAMMING (QP), SECOND-ORDER CONE PROGRAMMING (SOCP), NONLINEAR PROGRAMMING (NLP), CONSTRAINED LINEAR LEAST SQUARES, NONLINEAR LEAST SQUARES, AND NONLINEAR EQUATIONS.	2	AU				
9		ITEM-00001	NONSMOOTH OPTIMIZATION MODULE BOX: RESOLVE MULTIPLE MAXIMA OR MINIMA PROBLEMS. SOLVERS INCLUDE SURROGATE, PATTERN SEARCH, GENETIC ALGORITHM, PARTICLE SWARM, SIMULATED ANNEALING, MULTISTART, AND GLOBAL SEARCH.	2	AU				

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10		ITEM-00001	COMMUNICATIONS SYSTEM TOOL MODULE:IT PROVIDES ALGORITHMS, APPS, AND SCOPES FOR DESIGNING, SIMULATING, ANDANALYZING SIGNAL PROCESSING SYSTEMS IN MODELING PLATFORMS. YOU CAN MODELREAL-TIME DSP SYSTEMS FOR COMMUNICATIONS, RADAR, AUDIO, MEDICAL DEVICES,IOT,AND OTHER A PPLICATIONS.DESIGN AND ANALYZE FIR, IIR, MULTIRATE, MULTISTAGE, AND ADAPTIVEFILTERS. YOU CAN STREAM SIGNALS FROM VARIABLES, DATA FILE S, AND NETWORK DEVICES FORSYSTEMDEVELOPMENT AND VERIFICATION. THE TIME SCOPE, SPECTRUM ANALYZER, ANDLOGICANALYZER LET YOU DYNAMICALL Y VISUALIZE AND MEASURE STREAMING SIGNALS.	2	AU				

TOTAL AMOUNT IN WORDS:

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### SPECIAL NOTES / INSTRUCTIONS:

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Modeling Software

### **STANDARD TERMS & CONDITIONS**

- 1) Prices should be 'DDP' delivery duty paid at DEWA stores.
- 2) Quotation to be submitted only in local currency U.A.E Dirhams
- 3) DEWA Standard payment terms is '30 days credit' from the date of acceptance of material
- 4) No DEWA staff or his or her relatives up to third degree should have ownership or partnership in your company, and your participation in DEWA tenders / RFQs should not constitute a Conflict or perceived Conflict of Interest.
- 5) The offered product and/ or services in the Quotation, shall be conforming and in accordance with DEWA Energy Management Policy & EnMS Manual.

**SUPPLIER'S REMARKS :**

**SUPPLIER'S SIGNATURE AND STAMP**