

**DEPARTMENT OF MECHANICAL ENGINEERING  
INDIAN INSTITUTE OF TECHNOLOGY - DELHI  
HAUZ KHAS, NEW DELHI – 110016**

Dated: 12/09/2013

Sealed quotations are invited for the purchase of

1. NAG FORTRAN PLUS LIBRARY on Windows
2. NAG MATLAB Tool Box

Interested parties are requested to carefully read the technical specifications for items 1 and 2 below and submit the quotations for purchase of the above items. Quotations should be sent in sealed envelope, clearly marked as “Quotations for NAG Fortran Plus Library on Windows and NAG MATLAB Toolbox”

**Technical specifications of item 1:**

1. Operating System: Windows XP, Vista, Windows 7, Windows 8 (64-bit and 32-bit)
2. Compiler: Compatible with gnu Fortran 77, GNU fortran 95, GNU Fortran 95 and Intel ®Fortran compilers.
3. Including the following chapters:
  - A00 – Library Identification
  - A02 – Complex Arithmetic
  - C02 – Zeros of Polynomials
  - C05 – Roots of One or More Transcendental Equations
  - C06 – Summation of Series
  - C09 – Wavelet Transforms
  - D01 – Quadrature
  - D02 – Ordinary Differential Equations
  - D03 – Partial Differential Equations
  - D04 – Numerical Differentiation
  - D05 – Integral Equations
  - D06 – Mesh Generation
  - E01 – Interpolation
  - E02 – Curve and Surface Fitting
  - E04 – Minimizing or Maximizing a Function
  - E05 – Global Optimization of a Function
  - F – Linear Algebra
    - F01 – Matrix Operations, Including Inversion
    - F02 – Eigenvalues and Eigenvectors
    - F03 – Determinants
    - F04 – Simultaneous Linear Equations
    - F05 – Orthogonalization
    - F06 – Linear Algebra Support Routines
    - F07 – Linear Equations (LAPACK)
    - F08 – Least Squares and Eigenvalue Problems (LAPACK)
    - F11 – Large Scale Linear Systems
    - F12 – Large Scale Eigenproblems
    - F16 – Further Linear Algebra Support Routines

- G01 – Simple Calculations on Statistical Data
  - G02 – Correlation and Regression Analysis
  - G03 – Multivariate Methods
  - G04 – Analysis of Variance
  - G05 – Random Number Generators
  - G07 – Univariate Estimation
  - G08 – Nonparametric Statistics
  - G10 – Smoothing in Statistics
  - G11 – Contingency Table Analysis
  - G12 – Survival Analysis
  - G13 – Time Series Analysis
  - H – Operations Research
  - M01 – Sorting and Searching
  - S – Approximations of Special Functions
  - X01 – Mathematical Constants
  - X02 – Machine Constants
  - X03 – Inner Products
  - X04 – Input/Output Utilities
  - X05 – Date and Time Utilities
  - X07 – IEEE Arithmetic
4. Complete documentation and installation instructions.

### Technical specifications of item 2:

1. Operating System: Windows XP, Vista, Widows 7, Windows 8 (64-bit and 32-bit)
2. Interpretable with Matlab R2012a.
3. Possessing the following Utility Functions:
  - A00 – Library Identification
  - A02 – Complex Arithmetic
  - C02 – Zeros of Polynomials
  - C05 – Roots of One or More Transcendental Equations
  - C06 – Summation of Series
  - C09 – Wavelet Transforms
  - D01 – Quadrature
  - D02 – Ordinary Differential Equations Integrators for Stiff Ordinary Differential Systems
  - D03 – Partial Differential Equations
  - D04 – Numerical Differentiation
  - D05 – Integral Equations
  - D06 – Mesh Generation
  - E01 – Interpolation
  - E02 – Curve and Surface Fitting
  - E04 – Minimizing or Maximizing a Function
  - E05 – Global Optimization of a Function
  - F – Linear Algebra
  - F01 – Matrix Operations, Including Inversion
  - F02 – Eigenvalues and Eigenvectors
  - F03 – Determinants
  - F04 – Simultaneous Linear Equations
  - F05 – Orthogonalization

- F07 – Linear Equations (LAPACK)
  - F08 – Least Squares and Eigenvalue Problems (LAPACK)
  - F11 – Large Scale Linear Systems
  - F12 – Large Scale Eigenproblems
  - F16 – Further Linear Algebra Support Routines
  - G01 – Simple Calculations on Statistical Data
  - G02 – Correlation and Regression Analysis
  - G03 – Multivariate Methods
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  - G07 – Univariate Estimation
  - G08 – Nonparametric Statistics
  - G10 – Smoothing in Statistics
  - G11 – Contingency Table Analysis
  - G12 – Survival Analysis
  - G13 – Time Series Analysis
  - H – Operations Research
  - M01 – Sorting and Searching
  - S – Approximations of Special Functions
  - X01 – Mathematical Constants
  - X02 – Machine Constants
  - X03 – Inner Products
  - X04 – Input/Output Utilities
  - X05 – Date and Time Utilities
4. Complete documentation and installation instructions.

**Terms and Conditions:**

1. Quotations should be sent only in INR
2. Payment will be made only after successful installation
3. Delivery period: within 3 weeks from the date of supply order.
4. The quotations must have validity of at least 45 days.
5. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated.
6. Authorities of IIT Delhi reserve the right to reject any or all quotations without assigning any reasons.
8. Payment will be made only after successful installation and verification of technical details.

Kindly submit your bids on or before 21.10.2013 to the address given below.

Dr.Subhra Datta,  
 Assistant Professor,  
 Department of Mechanical Engineering,  
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