

**Technical Specifications for Finite Element Based
Multiphysics Software Package**

Essential Coupled Multiphysics modules	Structural Mechanics, Fatigue, Electrochemical and Corrosion physics
Types of Element	Shell, membrane, beam or solid Tets, Brick, prism, and pyramid for 2D and 3D meshing or combination of these.
Deforming Object Meshing	Arbitrary Lagragian Eulerian (ALE) mesh framework.
Numerical Solver Robustness	Capable of computationally solving 2nd order custom Partial differential equations.
Interface with MATLAB	Capable of integrating with MATLAB to send input data for simulations and receive data for on-the fly post processing.
Graphic User Interface	Possess a graphic user interface to generate the model, discretize and visualize the results on the fly.
High Performance	Capable of efficiently running complex simulations in a shared/distributed memory architecture and utilize large number of CPUs.
User Database	The software should have a large academic and industrial user database.
Scholarly Benchmarking	The software has been utilized in generating research findings that were published in Scopus index high impact journals.

Conditions:

1. Quotes are requested **by two-bid system Technical bid separate cover & Financial bid separate cover combined in single big cover.**
2. A separate compliance **certificate/sheet should be attached** indicating whether the proposed system meets above said specifications along with necessary details.
3. Included technical support for 1 year from the date purchase with options to extend on an annual basis.

Other Terms: Only OEMs or their authorized agents can quote and PO will be placed on OEMs only.