

**Department of Aerospace Engineering  
Indian Institute of Technology Kanpur  
Kanpur – 208016**

Letter no.: AE/ACECOST/CSU/2012-01

To:

M/s :

Sub : Quotation for supply of **“Phase Array Scanner for flaw detection”**

Sir / Madam:

With reference to the subject mentioned above, you are invited to submit the quotation in a sealed cover in order to reach us before 24<sup>th</sup> May, 2012, in the proforma quotation enclosed herewith in the form of hard copy / soft copy for your use. Soft-copy of the model quotations (for both indigenous and imported items) are available on the website: [www.iitk.ac.in/dord](http://www.iitk.ac.in/dord). The detailed specifications of the equipment are given below.

With best regards.

Sincerely,

(C.S. Upadhyay)

## **Detailed specifications of the desired Phase Array Scanner:**

**Phased Array system for detection of delamination and ply-level damage in thin composite samples.**

Composite material systems: Carbon, Glass fiber + epoxy  
Thickness of sample: approximately 2 mm (4 to 8 layers)

**Desired attributes:** Damage in the plies or the interface, of diameter 2mm or more.

### **Desired specifications of the equipment:**

16:64, 32:128 element phased array scanner capable of A, S and C scans with data storage; video data recording; high data acquisition rate; suitable pulse ; interactive screen display; probes for flat samples and samples with corners; suitable analysis software; additional software solutions for TOFD and Weld inspection (desirable); additional accessories as may be deemed fit by the supplier.

#### **Note:**

- (a) All accessories required for the system to be ready-to-use on installation, should be provided.
- (b) Maintenance and training to be provided should also be clearly listed.

***Model quotations (form 603 or 608) for import or indigenous products can be downloaded from <http://www.iitk.ac.in/dord/> site.***