



**Department of Aerospace Engineering
IIT Kanpur**

Sep 20, 2013

Quotation request notice
(Enquiry No - IITK/AE/R_Kitey/19)

Sealed quotations are invited from dealers/distributors by the undersigned for 'Experimental setup to conduct Photoelasticity experiments'. The technical and commercial bids should be submitted in separate envelopes to the Department of Aerospace Engineering, IIT Kanpur by 04.10.2013.

Enquiry No.: IITK/AE/R_Kitey/19
Opening date: 0900hrs, 20.09.2013
Closing date: 1800hrs, 04.10.2013

Photoelasticity Set-up Details

A Photoelasticity experimental setup is to be installed for full field qualitative and quantitative stress analysis. The set-up with automated (digital/computerized) data acquisition system will be preferred. A reference schematic of the setup (circular polariscope) is given below.

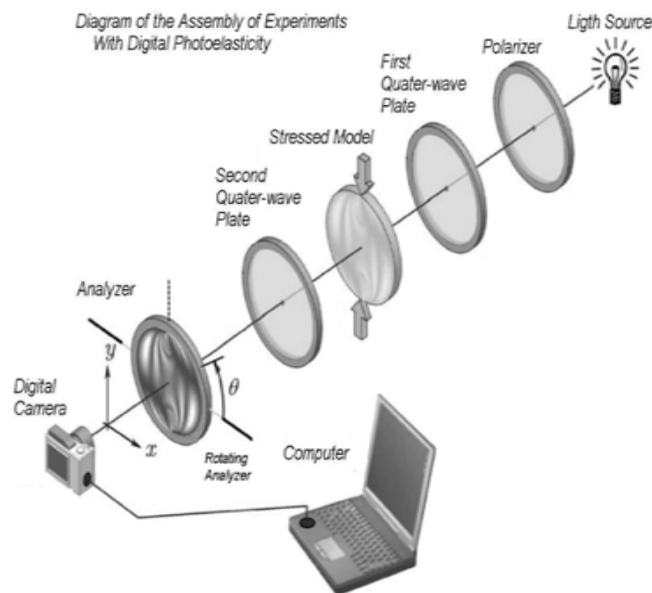


Figure 5. Arrangement of the experiments (circular polariscope) with the new method proposed.

Quotations can be submitted for the complete solution (**ready-to-use**).

OR

Individual set-up components with the required assembly fixtures can also be quoted. In this case at least following components should be included.

1. Linear Polarizer – 2 No.
2. Quarter wave plate – 2 No.
3. Required fixtures to mount Polarizers and wave plates. There should be a mechanism to rotate the mounted optics about the set-up axis with acute precision.
4. Variable beam expander (at least of 10 X) – 2 No.
5. Computer operated digital / CCD camera (optional)
6. Additional components/fixtures (for completing the set-up) if any.
7. Note – The optics should have a compatibility with 12 mW He-Ne laser (633 nm) besides incident white light source. The quoted optics should be at least of **50 mm diameter**.

Larger diameter optics will be preferred. Therefore, optional quotes with more than specified size can be submitted.

Terms & Conditions of the quotations are as under:

1. The equipment (or the set-up components) will be selected purely based on the technical specifications (within the budgetary constraints).
2. The quotations should be submitted in the properly sealed envelope, addressed to the undersigned. The enquiry no., technical/commercial quote and date should be mentioned on the top of the envelope.
3. The time allowed for carrying out the above note work is 15 days.
4. The quoted price should be inclusive of sales tax and other taxes including freight charges (if any).
5. The quotations shall remain valid for two months from the date of opening.
6. Commercial quotes will be opened only if the technical specifications mentioned in this tender are fulfilled. The Institute reserves the right of accepting or rejecting any quotations without assigning any reason thereof.

Your early response in this matter would be highly appreciated.

Sincerely,

Dr. Rajesh Kitey
Assistant Professor
Department of Aerospace Engineering, IIT Kanpur
Email – kitey@iitk.ac.in, Ph# +91-512-259-7060