

**Government of India  
Bhabha Atomic Research Centre  
Post Irradiation Examination Division  
Radiological Laboratories, Trombay, Mumbai 400 085**

Tel: 25594018, Fax: 2550 5151

Ref: PIED/UK/2021/ 765

10/11/2021

11

**Sub: Fabrication and supply of PCB board, Pirani gauge and display, IR Detectors along with IRIS , Lens and mirror parts, Gold coated detector cable, water tube, DI water filter and Nd-Yd laser flash lamp for Laser Flash Analyser-1000 and performance testing at user's laboratory at PIED, RLG as per specifications in the scope of work**

Dear Sir,

Please send us your lowest quotation for the following fabrication, supply, repair and installation and commissioning works at RLG as per the site condition and the scope of work given below:

**Scope of work:**

Fabrication, supply and installation of PCB board, Pirani gauge and display, IR Detectors along with IRIS , Lens and mirror parts, Gold coated detector cable, water tube, DI water filter and Nd-Yd laser lamp for Laser Flash Analyser-1000 and performance testing at user's laboratory at PIED, RLG –

Specification of PCB board, Pirani gauge and display, IR Detectors along with IRIS , Lens and mirror parts, Gold coated detector cable, water tube, DI water filter and Nd-Yd laser lamp for Laser Flash Analyser-1000 with following details:

- (A) PCB board for power supply suitable for LFA-1000 unit. It should have thermocouple CJR control, Power supply of Laser interface, laser source trigger circuit, Lift Up and Down control circuit, DC DC converter of output 12V, Sample carrousole control circuit
- (B) Pirani Gauge and Pirani display compatible with Edwards two stage rotary pump up to  $10^{-3}$  mBar
- (C) IR Detector Assembly for LFA-1000 should be compatible with Vigo MIPXC-F series module. Detcetor should be Peliter cooled (thermoelectric cooler). It must have Cooling fan, heat sink, LEMO supply socket, SMA signal output socket, M8x1/stand mounting cable. Detector assembly should include IRIS, mirror assembly for bending IR signal at 90 degree and the IR transparent Lens
- (D) Gold coated SMA- BNC detector cable compatible with detector cable compatible with Vigo IR detector.
- (E) Water tube 6m with Serto both side compatible with LFA 1000 unit
- (F) DI water filter Laser unit compatible with LFA1000 unit
- (G) Flash lamp 500-0535A for Nd-Yg laser suitable for LFA1000 unit

**Please note the following:**

1. The work is to be completed within 180 days of receiving the firm work order from us.

2. Please address your offer to: **Umesh Kumar, SO/E, Post Irradiation Examination Division, RLG, BARC, Trombay, Mumbai-400 085.**
3. The sealed quotations shall reach the office of the Head PIED, New Hot Cells Facility, RLG, Mumbai – 85 on or before **24.11.2021 at 11:00hrs** only by **speed post or registered post of Indian Postal Department**. Offers sent by telegram, telex, fax or e-mail will **not** be considered.
4. The quotations are to be sent in a sealed envelope with the following information marked on top of the envelope: **“IR detectors assembly for Laser Flash Analyser-1000 at PIED, RLG” due on 24.11.2021.**
5. All taxes should be mentioned clearly.
6. **Good & Services Tax** : The goods proposed to be fabricated or supplied pertaining to this work order are meant for research purpose of Research Institution under Department of Atomic Energy and hence are exempt from payment of GST in terms of Notification No. 47/2017 integrated tax (rate) dated 14.11.2017 issued by Ministry of Finance, Department of Revenue of Government of India. In the event of order, as per the notification the Purchaser will make available the certificate to avail integrated GST @5% duly signed by the authorized officer in the Department of Atomic Energy, Government of India.
7. Quotation should be in the printed letter head /quotation format which should consist of GST Registration Number, PAN Number, Service Registration Number, etc. and **Quotation shall be duly signed by proprietor or authorized person and affix company seal.**
8. Computer generated quotation form will not be accepted.
9. Income Tax @2% and GST TDS @2 % will be deducted at source from your bill
10. Offer should be on free delivery basis to RLG Zonal Stores, BARC, Trombay.
11. Delivery period should be mentioned with all the possible consideration.
12. Payment will be made within 30 days from the date completion.

Yours sincerely,

*Umesh Kumar*  
*11/11/2021*

Umesh Kumar  
SO/E, PIED  
RLG, BARC