

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

Tel: 25594018, Fax: 2550 5151

Ref: PIED/NHF/AB/2017/725A

11.09.2017

To,

Sub: Design, fabrication and supply of Composite Detector based Alpha/Beta Counting System.

Dear Sir,

Please send us your lowest quotation for the above work as per the technical specification and terms and condition given below:

Scope of work:

- (A) Design, fabrication and supply of Composite Detector based Alpha/Beta Counting System
Quantity to be fabricated = **Five Systems**

Sr No	Description
1.	<p>Dual Channel Alpha-Beta Radiation Counting System:</p> <ul style="list-style-type: none">• Power: Mains operation (230 V, 50 Hz)• Display: 20 X 4 LCD dot matrix display• User interface :Soft touch function keys for controlling counter operation like Set up, Recall data, Counting etc.• Counter: Six digit (Both Channels)• Preset Time: Adjustable (0 – 9999 sec)• Number of Runs: Adjustable (0-500 for Alpha/beta)• H V Supply: Adjustable, 0 to 1200 V by setting the heliport with graduated dial• <u>In-situ data transfer via RS232 after each Run</u> <p>System should transfer alpha and beta counts via RS232 port in a STRING (;XXXXXX XXXXXX XXXXX) clearly distinguishing alpha counts, beta counts and time of Run during particular cycle. In addition to this it shall transfer data to PC using USB port</p>

	<p>b) Alpha probe with drawer assembly</p> <ul style="list-style-type: none">• ZnS(Ag) adhered to 0.10" thick Plastic Scintillator mounted on 1.5" PMT• Provision shall be available for removal of detector (including PMT) from drawer assembly• Efficiency: (Alpha) 25% for Am-421 (Beta) Approx. 12% for Sr90 without lead shield & 15% with lead shield (#)• Background: (Alpha) 3-4 CPH (Beta) 3-4 CPM (<i>at 0-10 μR / Hr. ambient background</i>)• Crosstalk should not be greater than 10% for Alpha to Beta and 1% for Beta to Alpha respectively
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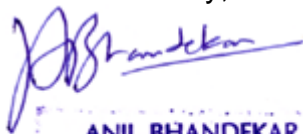
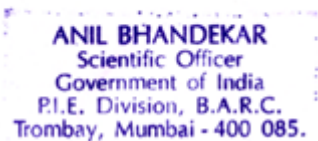
(B) The finished product will be inspected at the fabricators works before dispatch

(C) Safe delivery to RLG Zonal Stores, BARC, Mumbai

Terms and Conditions :

1. The work is to be completed within 30 days of receiving the firm work order from us.
2. The sealed quotations shall reach the office of the Head PIED, New Hot Cells Facility, RLG, Mumbai – 85 on or before **19.09.2017 by Speed Post of Indian postal services.**
3. Please address your offer to: **Anil Bhandekar, SO/G, Post Irradiation Examination Division, RLG, BARC, Trombay, Mumbai-400 085.**
4. The quotations are to be sent in a sealed envelope with the following information marked on top of the envelope: “Quotation Alpha/Beta Counting System”
5. Offers sent by telegram, telex, fax or e-mail will **not** be considered.
6. All taxes should be mentioned clearly.
7. Quotation should be in the printed letter head /quotation format which should consist of Sales Tax Registration Number, PAN Number of the firm, Service Registration Number, etc.
8. **Quotation shall be signed by proprietor or authorized person and affix company seal.**
9. Computer generated quotation form will not be accepted.
10. Item is required for research purposes. Therefore, excise duty will not be applicable. The necessary excise duty exemption certificate will be issued. Supplier has to quote the price exclusive of excise duty.
11. Income Tax @2%, surcharge on IT as applicable and educational cess as applicable (on IT & surcharge) will be deducted at source from your bill
12. Delivery period should be mentioned with all the possible consideration.
13. Payment will be made within 30 days from the date completion.

Yours sincerely,

ANIL BHANDEKAR
Scientific Officer
Government of India
P.I.E. Division, B.A.R.C.
Trombay, Mumbai - 400 085.

Anil Bhandekar
SO/G PIED