

**Government of India  
Bhabha Atomic Research Centre  
Nuclear Agriculture & Biotechnology Division**

Ref: NA&BTD/2017/ 146549

Date: 21.08.2017

**Sub: Quotation for large scale multiplication of Bacillus isolates using fermentation facility**

Sealed Quotations are invited for the following work as per specifications given below:

Large scale multiplication of different Bacillus isolates in the fermentation facility having capacity of minimum 1000 L media batch. One fermentation batch will involve two-stage seed (inoculum), the first stage seed would be prepared using shake flask and second stage seed would be in pilot scale fermentor. The typical batch cycle from first stage inoculum preparation to harvesting is around 48 hours.

**Terms and conditions**

1. The firms should quote the rate per batch and the rate should include complete facility usage like fermentation, centrifugation, spray-drying along with related accessories, Utilities, manpower, electricity, raw material like media components and testing charges.
2. The firm will have to sign a non-disclosure agreement (NDA) to maintain the secrecy of the protocol and isolates.
3. The media components will be provided on request to the interested parties. Final media composition will be provided at the time of issuing work order.
4. The regulatory permission to procure media component like molasses has to be obtained by the party.
5. The cost should include the taxes as applicable
6. The facility should have all the regulatory permissions to undertake large scale fermentation and laboratory studies.
7. The interested parties may contact Dr. Ramesh S. Hire for any technical queries.

**Quotations in sealed cover (with company seal, PAN, GST and TAN numbers), giving details of price, time required to complete the work etc. may be sent to**

**Head,  
Nuclear Agriculture and Biotechnology Division  
Bhabha Atomic Research Centre, Trombay,  
Mumbai-400085**

Kind Attn: Dr. Ramesh Hire, Tel: 25592292, email: rshire@barc.gov.in

- The sealed quotations should reach on or before September 11, 2017 by 1800 h.
- “Quotation for large scale multiplication of Bacillus isolates using fermentation facility” should be mentioned on the top of the envelope.
- The envelope with quotations must be sent via India Post, and not by any other means.