



Invitation for Expression of Interest For Commercial scale production of cellulase enzyme

About us: The International Centre for Genetic Engineering and Biotechnology (ICGEB) having its office at Aruna Asaf Ali Marg, New Delhi, India 110067, India with its headquarter based at Area Science Park, Padriciano 99,34012 Trieste, Italy. ICGEB with the Department of Biotechnology, Government of India has set up **DBT – ICGEB** Centre for Advanced Bioenergy Research at ICGEB, Aruna Asaf Ali Marg, New Delhi 110067, India

Mission of DBT-ICGEB- To develop recombinant organism for cost effective cellulase enzyme preparation for the use of ligno-cellulose biomass hydrolysis; to fulfill this commitment our Centre has developed a recombinant fungal based platform to produce enzyme composition giving equal or better biomass saccharification/hydrolysis efficiency than the best equivalent commercial enzyme available. The Enzyme technology is already scaled up to the 15,000 L scale (Patent applications have been filed for this technology and proprietary information has been protected).

PURPOSE OF THE EOI: DBT-ICGEB is looking for an industry partner (“Potential Industry Partner”) and is keen to commercialize enzyme technology. ICGEB intends to license its enzyme technology to an industry partner for its marketing and commercial production. It is presently contemplated that the license may be granted for an initial period of up to five years for India Jurisdiction, with such further extensions as may be merited in view of the performance of the industry partner. The Potential Industry Partner should meet the following requirements for consideration:

Capabilities for consideration as a potential industry partner: The Potential Industry Partner:

- **Strength** - should have skilled manpower in process development and the ability to perform fungal strain scale-up studies for enzyme production.
- **Capacity**- should be able to scale up this technology up to 100,000 liters
- **Marketing** - should be able to market the developed product in India.

Potential of the Technology in the Market

An indigenous enzyme technology, for the hydrolysis of lignocellulosic material as substrate to produce sugars, which further convert to bioethanol and other products.

Value proposition

- Novel indigenous genetically engineered fungal strain

Technology status

- Demonstrated at 15,000 L scale
- Third-party validation proves the enzyme efficiency equal or better to the available commercial enzyme
- Organism is protected under safe deposit
- Patent protected in US and India

Expression of interest from Indian companies are invited for securing the license to manufacture and market the products. Please let us have an expression of interest, along with preliminary information relevant to establishing the above capabilities, by email at shams@icgeb.res.in, by 14th September 2022 – so that ICgeb may respond with further information to suitable parties.

Please note:

- i) Detailed information will be shared after executing a confidentiality agreement with ICgeb.
- ii) The above invitation is not intended to bind ICgeb either to proceed with further discussions with any party or Potential Industry Partner or to appoint any party as an industry partner.