



सीएसआईआर-हिमालय जैवसंपदा प्रौद्योगिकी संस्थान
पालमपुर – 176 061 (हि.प्र.)
CSIR-Institute of Himalayan Bioresource Technology
Palampur – 176 061 (H.P.)



CSIR-IHBT invites Expression of Interest (EOI) for Transfer of Technology
“Technology for indigenized low cost bioreactor system”

CSIR-IHBT, Palampur has developed a technology for Low cost indigenized bioreactor system for commercial production and the technology is now ready for transfer. EOI are invited from interested Industries / SMEs / Progressive Entrepreneurs for technology transfer. The application should include details of company profile and marketing strategies. The selected parties shall be called for discussions. Interested parties may send their Expression of Interest in a sealed cover superscripting “Expression of Interest” addressed to

The Director
CSIR-Institute of Himalayan Bioresource Technology
Post Box. No. 6, Palampur – 176 061 (H.P.)
Email: director@ihbt.res.in, bdmu@ihbt.res.in
Ph: +91-1894-230411

INDIGENIZED LOW COST BIOREACTOR SYSTEM

Description and advantages of technology

CSIR IHBT, Palampur has designed a low cost indigenized bioreactor vessel for cultivation of plant cell and organ culture and phytochemical production under aseptic conditions. The bioreactor is made up of borosilicate glass with opening mouth, capped with silicon/rubber cork having multiple ports for exhaust, medium, sampling as well as sensors like temperature, pH, DO etc. Bioreactor system has inlet air-port at the bottom for supply of gases through ceramic or sintering air sparger of variable diameter and pore size. Inlet and exhaust air-port were connected with sterile air-vent filters for supply of mixture of gases is regulated by air rotameter. In addition, the vessels are low cost and designed to cultivate plant cell and organ culture at large scale for production of commercially valuable phytochemicals.