



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

**“Technology for high-yield and cost-effective production of a dual-substrate active lytic polysaccharide monooxygenase (LPMO<sup>BI</sup>) for industrial applications”**

CSIR-IHBT invites expression of interest (EOI) from interested parties from Industries / SMEs / Progressive Entrepreneurs for licensing a “Technology for high-yield and cost-effective production of a dual-substrate active lytic polysaccharide monooxygenase (LPMO<sup>BI</sup>) for industrial applications. This technology pertains to a bioprocess for the high-yield, cost-effective, and scalable production of a dual-substrate (chitin and cellulose) active and a highly thermostable [melting temperature (T<sub>m</sub>) = 74.4 ± 0.83 °C] LPMO<sup>BI</sup> that remains active over a pH range of 5.0-8.0. LPMO<sup>BI</sup> exhibits oxidative cleavage activity on both chitin and cellulose, generating chitooligosaccharides and oxidized cellulose, respectively, and further demonstrates synergistic activity when used in combination with chitinase and cellulase. In nutshell, the disclosed process offers a commercially feasible and reproducible method for producing a thermostable, dual-substrate active LPMO for health-related and biotechnological applications, with exceptionally low production cost relative to commercial LPMOs

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

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