



Government of Gujarat



AVAILABLE TECHNOLOGY

“TECHNOLOGY SCROLL”

FOSTERING BIOTECH BUSINESS

VOLUME V

ENVIRONMENTAL BIOTECHNOLOGY
MARINE BIOTECHNOLOGY

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GUJARAT STATE BIOTECHNOLOGY MISSION



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About this Compilation

Technology Scroll, is an initiative of Gujarat State Biotechnology Mission, under aegis of Government of Gujarat. The compilation has been done by GSBTM team. For more information on the matters / technologies, please refer to the contact details provided.

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ENVIRONMENTAL BIOTECHNOLOGY ▶▶



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Message of H' ble Chief Minister of Gujarat

Technology scroll

Relevance of science & technology lies in its ability to contribute to socio-economic welfare of human society. The state of Gujarat is aware and abreast of the expanding vistas of modern technologies and its potential to facilitate socio-economic development and therefore, state has identified Biotechnology, as Growth Engine for future progress. Gujarat has firm belief that Biotechnology will not only fuel the development of diverse sectors and related industries but has proven potential for wealth creation as well.

Conversion of technological innovations into business enterprise and wealth creation, thereby, is the need, reflection and measure of a knowledge based economy. Business translation in knowledge economy is a function of opportunities created by new technologies and the entrepreneurship skills. The globally demonstrated entrepreneurship spirit of Gujarat has always been there to explore the new areas of business including those emanating from sunrise technologies such as Biotechnology.

In this regard, the Technology Scroll, brought out by Gujarat State Biotechnology Mission,, is a logical, timely and right step forward. This scroll would encourage and facilitate entrepreneurs to venture into the business arena of this emerging science. It is hoped that it would be instrumental in stimulating biotechnology based entrepreneurship in Gujarat.

I am sure that the purpose and spirit with which Technology scroll has been prepared, shall be realized to the fullest and for the benefit of all. I extend my heartiest congratulations and Best wishes, to Gujarat state Biotechnology mission, for their laudable efforts in developing this exclusive compilation.

(Narendra Modi)



CHIEF SECRETARY
GOVERNMENT OF GUJARAT

Gujarat is among the most industrialized States in the country. The State has achieved impressive growth in chemical, manufacturing, mining and textile sectors. The State is now moving towards rapid development of knowledge industries, focusing on information and bio-technologies. The State Biotechnology Mission has prepared a Technology Scroll which lists technologies globally available for business entrepreneurs. The scroll illustrates opportunities for investment in the bio-technology application and would be of immense help to entrepreneurs in identifying potential for investment. This is a commendable effort of the Gujarat State Bio-technology Mission and I hope that the compilation would be found useful by bio-technology entrepreneurs.


(S.G. Mankad)

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सत्यमेव जयते

RAJ KUMAR, I.A.S.
Secretary

Government of Gujarat
Department of Science & Technology

Message of Secretary, Science & technology

Technology Scroll

Biotechnology, undoubtedly, is the growth engine of the future. With its cutting edge technology innovation and vast applications in multiple sector it stands to offer cost effective solutions to society. Knowledge harnessing for socio-economic development is a function of research and entrepreneurship. While application based research is the need of hour, availing the opportunities through developed work is equally significant and logically desirable.

This inventory of potential business opportunities in Biotechnology sector would not only facilitate start ups, new entrepreneurs and existing players but shall also encourage higher level of business activity in Biotechnology in the state. The technology scroll shall enable increased interaction among the stakeholders and facilitate business relationship. The benefits of this compilation to industry, commerce, academia or researchers are alike.

I convey my sincere wishes and heartiest congratulations to Gujarat State Biotechnology Mission for coming up with this novel idea and trust that all would find this endeavor as initiative for catalyzing Biotechnology entrepreneurship in the State.

Raj Kumar

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