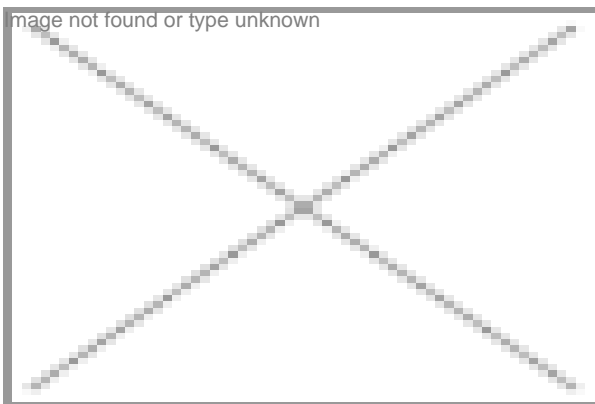


Indian biotechs line up for Malaysia

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Even as India is emerging a hot destination in Asia for doing contract research and manufacturing, clinical research, and discovery services, Indian companies are heading to Malaysia in large numbers. They are going to be Asian neighbors for biomanufacturing, drug discovery, stem cell R&D, molecular diagnostics, aquaculture companies like Biocon, Dr Reddy's Labs, Avesthagen, Actis Biologics - are looking at expanding their operations to Malaysia, lured by its attractive offers and advantages

Bangalore-based Biocon, India's leading biotechnology company, on October 27, 2010, announced Strategic Foreign Direct Investment of \$160 million in Malaysia with the Malaysian biotechnology corporation, BiotechCorp. The investment will be made towards establishing a biomanufacturing and R&D facility in Bio-XCell, a custom-built biotech park and ecosystem in Iskandar Malaysia.

In October 2010, India's premier biotechnology company Biocon announced a strategic foreign direct investment (SFDI) of \$160 million in Malaysia with the Malaysian Biotechnology Corporation (BiotechCorp). The investment is for setting up a biomanufacturing and R&D facility in Bio-XCell, a custom-built biotechnology park and ecosystem in Iskandar, Malaysia.

“Biocon's strategic investment in Malaysia will propel our industry to the next level. It will be a catalyst in our commercialisation efforts, as we enter phase 2 of our National Biotechnology Policy – the Science to Business Phase,” said Dato' Iskandar Mizal Mahmood, chairman, Malaysian Bio-XCell & CEO, BiotechCorp.

“This will be the first high-end biosimilar and biopharmaceutical manufacturing and R&D facility in Malaysia. In compliance with US

FDA cGMP standards, it will raise the bar for quality and excellence in the sector and market. Biocon will stimulate growth for the sector and provide commercial opportunities for Malaysian biotechnology's SMEs. We can expect an increased presence of Biocon-affiliated global giants, growing the sector to new heights," Dato' Iskandar said.

In this backdrop, customized incentives for large investments, access to ASEAN markets through Free Trade Agreements, no restrictions on equity, adoption to ICH & FDA guidelines for manufacturing activities, industry-friendly regulations, and many other factors are drawing Indian companies to invest in Malaysia.

Exchanging the business intent documents to this effect, in the presence of Indian Prime Minister Dr Manmohan Singh and his Malaysian counterpart, Mohd Najib Tun Abdul Razak, Kiran Mazumdar-Shaw, chairman & managing director, Biocon said, "Malaysia is a compelling global destination for biotechnology, backed with world-class infrastructure and attractive tax incentives. Investing in Malaysia provides us with an international location with strategic geographical proximity to India. Biocon is pleased to be an early mover in this emerging opportunity, as we dovetail our research and biomanufacturing operations with those in Malaysia, to gain a global competitive advantage."

"Malaysia is a compelling global destination" h-end biosimilars ,besides other biopharmaceutical products. The investment is the largest for Malaysian biotechnology sector, so far. In the first phase, Biocon proposes to invest about 720 crore (\$161 million) in the facility, which is slated to be operational by 2014.

-Kiran Mazumdar-Shaw, CMD, Biocon

Early movers

In a span of four years, India has become the fourth largest investor in biotechnology space in Malaysia, with five companies having established operations there. Mazumdar-Shaw said, "Malaysia is a compelling global destination for biotechnology, backed with world-class infrastructure and attractive tax incentives. Investing in Malaysia provides us with an international location with strategic geographical proximity to India. Biocon is pleased to be an early mover in this emerging opportunity, as we dovetail our research and biomanufacturing operations with those in Malaysia, to gain a global competitive advantage."

Mazumdar-Shaw added that the project would focus on R&D and production of high-end biosimilars and other biopharmaceutical products. Bangalore-based Geneflux Biosciences, a technology-driven molecular diagnostics company, has been involved in product-oriented research, development and manufacturing of molecular diagnostic kits in Malaysia. Since 2007, it has invested about 9 crore (\$2 million) on infrastructure, international business development and marketing expansion strategies. "We have a state-of-the-art molecular diagnostic laboratory in Malaysia, supported by a small team of Bioinformaticians in India," said Dr Prashanth Bagali, director & senior vice president (Science & Technology) & COO, Geneflux (India & Malaysia). "The company has a ISO 9001:2008 certification, and is being audited for IEC/ISO 17025:2005 accreditation. Recently, we were selected for CPA Australia Assurance Programme Limited, Australia; and have participated in inter-laboratory quality assurance scheme, conducted by Institute of Medical Research (IMR), Malaysia," he added.

Geneflux that received the 2010 Asia Pacific Frost & Sullivan Niche Company of the Year Award in Molecular Diagnostics, has a fine benefit and competitive edge for being both manufacturer and service provider of molecular diagnostic kits. It has developed six PCR-based products, namely MyDENKit (dengue virus detection and serotyping), MuraFlu (Methicillin resistance staphylococcus aureus identification), FluFinder (H1N1 virus identification), MyCMV (Cytomegalovirus detection), Chikungunya virus detection kit and Meliokit (Melioidosis caused by Burkholderia pseudomallei detection), that are being marketed in Malaysia and abroad. It also provides qualitative and quantitative diagnostic services for Hepatitis B, hepatitis C, HCV and 2 (human herpes virus), VZV, HIV and other infectious diseases caused by virus and bacteria.

"We will increase sales in ASEAN countries"

-Dr Prashanth Bagali, director, senior VP - science & technology & COO, Geneflux India and Malaysia

Has Geneflux received any support from Malaysian government agency?

Geneflux, in association with a Malaysian university, launched the world's first PCR-based commercial kit, MyDENKit (acronym for Malaysian Dengue Kit) during BioMalaysia 2008 conference.

Geneflux was awarded the "BioNexus Status" by the Malaysia Biotechnology Corporation. In 2008, MOSTI (Ministry of

B: Science, Technology and Innovation) recognized our "passion for science research" in Malaysia, giving RM15,000 for the commercial development of Mx-DENK1 and clinical trials at eight international research centers across dengue epidemic regions. In 2009, MOSTI recognized our contribution and awarded a "Certificate of Achievement" for the successful completion of a dengue project.

As a result of collaborative efforts, Stempeutics Research announced in May 2010 that it has received clearance from Medical Research and Ethics Committee, Ministry of Health, Malaysia, for conducting human clinical trials in patients with ischemic stroke (IS), using investigational drug (IND)-based on Mesenchymal Stem Cells, derived from donated bone marrow.

In 2009, we received RM5.5 million from Malaysian Biotechnology Corporation (BiotechCorp), that boosted our strength, and we became champions in molecular diagnostics, production and services. Recently, we received the "2010 Asia Pacific Frost & Sullivan National Pharmaceutical Control Bureau (NPCB) certification for its manufacturing facility for conforming to the requirement of current good manufacturing practices (cGMP), in accordance with the Pharmaceutical Inspection Co-operation Scheme (PIC/S) GMP guides and its relevant annexes for Isolation, Processing and Storage of Mesenchymal Stem Cells. Stempeutics is the first stem cell company in Malaysia to have obtained this conformance certification.

Q What are your future plans for the Malaysian operations?

We will invest in international business development to increase our presence in ASEAN countries. Another Bangalore-based Aurigene Discovery Technologies, a 100 percent subsidiary of Dr Reddy's Laboratories too, opened operations in Malaysia in 2008. Aurigene works exclusively with partners on a project for different stages of drug

discovery called Hit Generation, Lead Generation, Lead Optimization and Pre-Clinical development. Aurigene has a unique hybrid model where it is able to run a profitable operation on the strength of its risk-sharing early partnership deals, and therefore, has a sustainable business model with the potential to generate long-term value.

In March 2010, Avesthagen, a leading systems biology biotechnology company from Bangalore commenced manufacture of two of its biosimilars at Inno Biologics, a leading contract manufacturing company in Malaysia. "We are currently carrying out cGMP manufacturing of our first biosimilar product, AV-05P for clinical trials at Inno Biologics facility. The second biosimilar AV-05N will also be produced in large quantities in Inno Biologics," says Dr Viloo Morawala Patell, founder, chairman & managing director, Avesthagen.

Company	Areas	Started in
Stempeutics Research	Stem cell research	2008
Aurigene Discovery Technologies	Drug discovery research and services	2008
Suvarna Rekha Marines	Aquaculture biotechnology	2006
Genelix Avesthagen	Molecular diagnostics	2007
Avesthagen	Biomanufacturing	2010

“Malaysian facility offers improved manufacturing efficiency”

—Dr Viloo Morawala Patell, founder and CMD, Avesthagen

Q What are the driving factors for Avesthagen to invest in Malaysia?

Avesthagen has been fortunate to work with a contract manufacturing organization (CMO) in Malaysia that has a manufacturing capability of mammalian cell-based biologicals, in conformation with FDA and European c-GMP guidelines. The Malaysian facility offers improved manufacturing efficiency. The willingness of the Malaysian facility to be flexible and adapt to Avesthagen's needs, has been very helpful. Manufacturing in Malaysia has offered a very important advantage, it is compliant with The International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use (ICH) and US Food & Drug Administration (FDA) guidelines, for all manufacturing activities.

Q Any support Avesthagen has received from the Malaysian government?

The facility being used by Avesthagen, Inno Biologics, is a government facility. Besides that, there is indeed significant support from the government to obtain clearances and other licensing support.

Q What are your future plans for the Malaysian operations?

Avesthagen will initially focus on completion of clinical batches of the first two molecules. With the support extended by Inno Biologics and the Malaysian government, the relationship with Malaysia is sure to be

that of long lasting mutual benefit.

Avesthagen has built a robust pipeline of eight biosimilars — of which four are in an advanced stage of development. The first product for anaemia, AVDESP has already completed preclinical, and is ready for cGMP manufacturing for conducting clinical trials in India. The second biosimilar for auto-immune disorders, AVENT, will also be produced at the Inno Biologics facility. Inno Biologics has been contracted to produce clinical grade material of Avesthagen's biosimilars, which will be used for human trials.

Vivo Bio Tech, a biotechnology company from Hyderabad, plans to set up a biotechnology laboratory in Malacca, a state in southern Malaysia, that will test medications for cancer and diabetes. Trial medicines will be tested on dogs, primates and other animals. The company says it plans to import beagles from Holland and capture primates from the local area. The facility is a 630 crore (\$141 million) joint-venture (JV) between Vivo Biotech, state government-owned Melaka Biotech Holdings and a local company, Vanguard Creative Technologies. Despite stiff resistance from animal rights groups, Malaysia has no laws overseeing the testing on animals, the Malacca State Chief Minister Mr Mohamad Ali Rustam is proud to have the lab in his state.

Mumbai-based Actis Biologics, a biotech venture technology company focusing on life sciences sector, plans to set up a biotech park called Biocity in Melaka, for which it has been allotted 270 acres of land. Biocity would provide buildings and other facilities for biotech companies. It is talking to a few real estate developers and investors to partner with the Biocity, which is at present on hold, due to real estate issues, and after effects of economic slowdown. Actis is planning to set up the first phase of Biocity, at an investment of 4500 crore (\$1 billion) to house about 25 units in a 270-acre area. In the second phase, involving an investment of another 6700 crore (\$1.5 billion), it plans to house 40-50 units. The Malaysian government had earlier assured to provide 500 acres adjacent to the first phase.

Eyeing lucrative market

Malaysia is positioning itself as a cost-competitive country and a regional hub for global biotechnology companies. It is drawing Indian companies — with tax incentives such as 10-year tax holiday, duty exemptions, customized incentives for large investments, access to Association of Southeast Asian Nations (ASEAN) markets through Free Trade Agreements, and no restrictions on equity.

Regulations in Malaysia are flexible and guidelines are evolving. This provides a scope for early movers. The regulatory approvals for stem cell research takes about seven months in Malaysia as against 18 months in India. Besides, Malaysia's membership of ASEAN and Organization of Islamic Conference (OIC) provides scope of marketing products in the member states of these associations.

Malaysian Biotechnology Corporation (BiotechCorp), the lead development agency for the biotechnology industry has been showcasing initiatives mooted by the government, and incentive schemes offered to companies, in different countries including India. By participating in leading bio exhibitions like Bangalore India Bio and road shows in Chennai and Hyderabad, BiotechCorp has succeeded in drawing the attention of Indian companies. While some companies have already made investments, others including India's leading biotech company, Biocon announced strategic foreign direct investment (FDI) in Malaysia.

He further added "Malaysia hopes the Biocon investment will stimulate growth for the sector, and provide commercial opportunities for Malaysian biotechnology's small and medium enterprises (SMEs).

Narayan Kulkarni in Bangalore