





O 1 Why Thailand

1 Introduction to Board of Investment

Opportunities in Medical and Biotech Industry



Thailand Market

- Population: 69 Million¹
- Middle Class Consumers: 52 Million²

Cambodia, Laos, Myanmar, Vietnam, Thailand

- 242 Million Consumers³
- Within 1000 KM

ASEAN Economic Community

- 645 Million Consumers⁴
- Within 3000 KM

Greater Asia Region

- 4.6 Billion Consumers⁵
- Within 5000 KM

Source: 1,3World Bank (2019), 2Deloitte (2016), 4ASEAN (2018), 5World Meters (2019)

Thailand Economic Statistics



Thailand GDP¹

USD 525.12 Billion (THB 16,879 Billion)
Greater than CLMV Combined



GDP Growth 2019¹

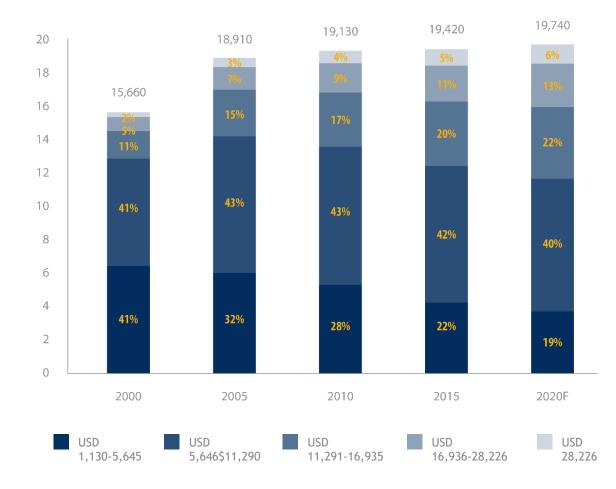
Annual Growth Rate 2.4% GDP per capita 7,723.53 USD



2nd Highest Household Consumption in ASEAN²

USD 246.11 Billion²
52 Million Middle Class Consumers³

Number of Household⁴



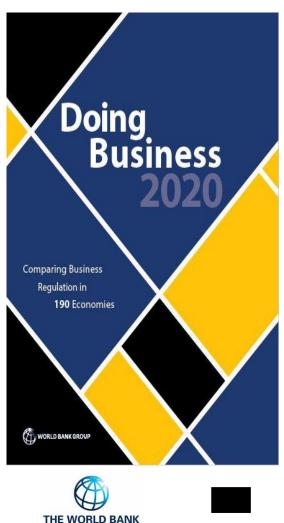




Top countries to Start Business and Ease of Doing Business Ranking

TOP 10 BEST COUNTRIES TO START A BUSINESS IN 2020





World Bank Ease of Doing Business 2020

- Ranked 3rd in ASEAN
- Ranked 21st Globally*

* Up 6 places since 2019 and 25 places since 2017

Key Improvement Areas by Year					
Study Indicator	2017	2018	2019	2020	
Starting a Business	•	•	•	•	
Construction Permits				•	
Getting Electricity		•	•	•	
Registering Property		•			
Getting Credit	•	•			
Protecting Minority Investors		•			
Paying Taxes		•	•		
Trading Across Borders			•		
Enforcing Contracts		•			
Resolving Insolvency	•	•		•	

Sources: The World Bank, Doing Business (2020)





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Introducing BOI



BOI is a government agency under the Office of the Prime Minister.

Provides comprehensive information and advice on establishing operations in Thailand

Coordinates between the foreign business community and other public agencies

Grants "Tax-based incentives" and "Non-Tax incentives

Provides Business Support Services for Investors



Tax Incentives

- Exemptions / Reductions of Corporate Income Tax
- Exemptions / Reductions of Import Duties on Machinery
- Reduction of Import Duties on Raw Materials
- Exemption of Import Duties on R&D Materials
- Double Deduction on Cost of Transportation, Electricity and Water
- 25% Deduction on Installation or Construction of Facilities
- Exemption of Import Duty on Raw Materials Used in Production for Export



Non-Tax Incentives

- Permit for Foreign National to Enter Kingdom to Study Investmen Opportunities
- Permit to bring in Skilled Workers and Experts to Work in Investment Promoted Activities
- Permission to Own Land
- Permit to Remit Money Abroad in Foreign Currency
- No Local Content Requirement
- No Export Requirements
- No Restriction on Foreign Currency
- Visa Facilitation

BOI Investment Incentive Scheme

Standard Incentives

Activity-Based











< 8 years CIT exemption</p>

Technology-Based

- Targeted Core Technologies -









Bio-Technology

Digital Technology

Nano- Advanced Material Technology Technology

10 years CIT exemption

Additional Incentives

Merit-Based

- Research & Development (R&D)
- Support academic / research institutes, or technology and human resource development fund
- IP licensing fee
- Advanced technology training
- Development of local suppliers
- Product and packaging design

Area-Based

- EEC 3 provinces
- SEZ 10 provinces
- Southern border provinces
- 20 provinces with lowest income
- Industrial Estates/Zones
- Science and Technology Parks (TSP, Food Innopolis, Space Krenovation Park)



CIT exemption

Standard Product-Based Incentive Packages

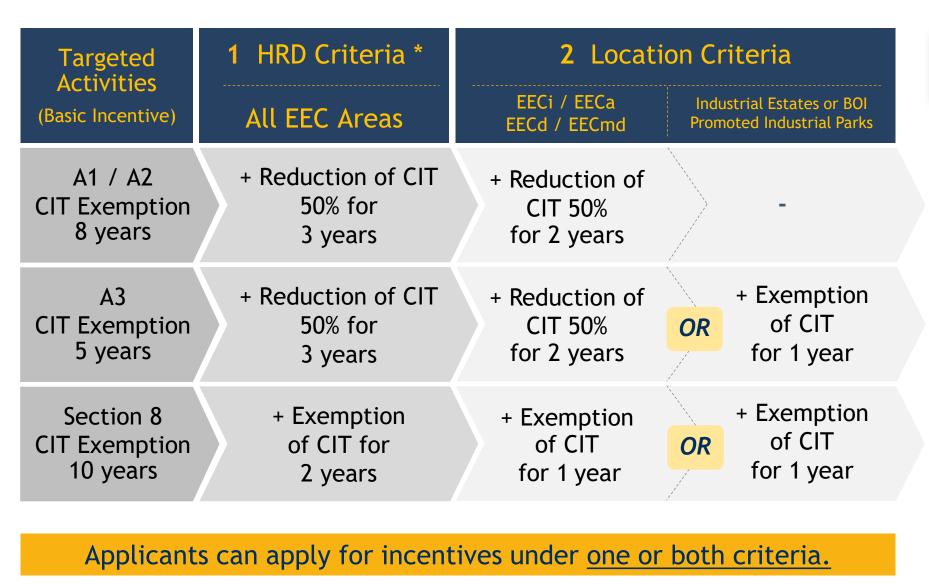
		Exemption CIT	Exemption Import duties on machinery	Exemption Import duties on raw materials	Non-tax incentives
A1	Knowledge-based activities focusing on R&D and design to enhance the country's competitiveness	8+ Merit years no cap	✓	✓	✓
A2	Infrastructure activities for the country's development, activities using technology to create value-added, with no or very existing investments in Thailand	8 years Merit	✓	✓	✓
A3	High technology activities which are important to the development of the country, with a few investments already existing in Thailand	5+ Merit	✓	✓	✓
A4	Activities with lower technology than A1-A3 but which add value to domestic resources and strengthen the supply chain	3+ Merit	✓	✓	✓
B1	Supporting industry that does not use high technology, but is still important to the value chain	+ Merit years	✓	✓	✓
B2	Supporting industry that does not use high technology, but is still important to the value chain	– years	=	✓	✓

Incentives are based on several key factors including level of technology, role in supply chain, and location.



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New Tax Incentives Scheme under New EEC Packages



- * For Human Resource Development Criteria

 Must establish a cooperation with institutions or organizations to develop human resources in
 - The training participants must not be less than 10% of the total number of employees or more than or equal to 40 participants.

Work Integrated learning (WIL)









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Thailand Medical Landscape at a Glance



27,367 Healthcare Providers

386
Private
Hospitals

G8

JCI Accredited

Hospital

3.5 Million Medical Tourists

600 Million USD
Spending on Medical Tourism

World's 5th biggest Medical Tourism Market

Medical Device Market

22 Billion USD in 2019

Expected Growth for Medical Device Market 8 to 10 percent

About 600 Thai-based Companies located in the countries

Thailand Medical Industry Supply Chain

Supplier Industries



Demand Driven Factor: Thailand's Medical Sector Market



No 1. Aging Society

Thailand's proportion of citizens aged over 60 is one of the highest in ASEAN leads to higher demand for healthcare.



No 4. Increase in Illness

Especially heart disease, stroke, cancer and diabetes (due partly to the increasing number of elder people)



No 2. High Growth in Health **Goods and Medical Service**

The growth of consumer spending on heath goods and medical services in Thailand is greater than the growth of domestic economy and spending on most other categories



No 5. Government Policy

Government promotes investment in medical device sector and intend to establish Thailand as a medical hub and a base for exports of medical devices.



No 3.Investment in New Hospital

Existing hospital operators plan to invest in new hospitals and medical equipment that will support continuous growth in demand for medical devices in Thailand



No 6. Increase in Foreign Patients

Tourists come to Thailand for medical treatment in Thai hospitals because of credibility, quality and standard of medical treatment.

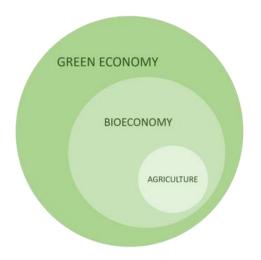
Investment Incentive for the Medical Industry

Activities	Group	CIT Exemption	Exemption of import duties on machinery	Exemption of import duties on raw materials used in production for export	Non-tax incentives			
Manufacture of high-risk or high-technology medical devices, (e.g. x-ray machine, MRI machine, CT scan machine and implants) or medical devices that are commercialized from public sector research or collaborative public-private sector research								
In case projects include R&D and innovation	A1	8 years CIT exemption (no cap)	✓	✓	✓			
In case projects not include R&D and innovation	A2	8 years CIT exemption	✓	✓	✓			
Manufacture of other medical devices (except for medical devices made of fabrics or fibers)	А3	5 years CIT exemption	✓	✓	✓			
Manufacture of medical devices made of fabrics or fibers, e.g. gowns, drapes, caps, face masks, gauze and cotton wool	Α4	3 years CIT exemption	✓	✓	✓			
Manufacture of Medical Foods	A2	8 years CIT exemption	✓	✓	✓			
Active pharmaceutical ingredients	A2	8 years CIT exemption	✓	✓	✓			
Manufacture of Medicine								
Manufacturing of targeted medicine	A2	8 years CIT exemption	✓	✓	✓			
Manufacturing of conventional and traditional targeted medicines	А3	5 years CIT exemption	✓	✓	✓			



Biotechnology as the Engine for the Knowledge-based Bioeconomy

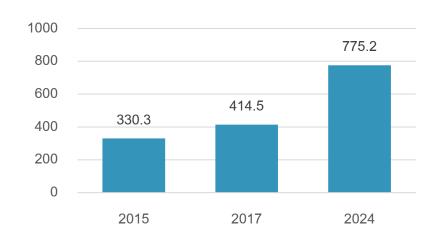
Bioeconomy Concept



In response to the wide range of acute environmental challenges facing the world today, many governments have begun to focus their efforts on developing bioeconomy industries

Global Market Value of the Biotechnology Market

Over the last decade, biotechnology has continued to be a major contributor of bioeconomy. According to Global Market Insights, the global market of biotechnology is expected to reach 775.2 billion USD by 2024.



Biotechnology Ecosystem

Biotech Sector





Thailand is the 18th most bio-diverse country in the world





- 15,000 species of plants
- 50,000 strains of bacteria, fungi and yeasts collected
- 200,000 species of microbes-world's largest and most diverse collection of micro organisms



165
biotech
companies
in Thailand



Science Parks and industrial estates

Agriculture and Bio-economy in Thailand

From Resource-based Agriculture

Agricultural-based Economy





Cassava

Sugarcane





Palm

Rubber

7% of GDP

USD 29.81 Billion

Feedstock-based

20 Million Population, Mainly in Agriculture

Molecular Breeding

Forecasting

Precision Agriculture

Mechanization

GDP Contribution

Total Value

Core Value

Employment

To Knowledge-based Value Chain

Bio-economy





Biochemical

Pharmaceuticals





Food for Future

Biofuel

8-11% of GDP

USD 40.79-53.34 Billion

Processed Food, Biochemical and Biofuel

Employment throughout Higher Value Sectors

Biopolis: Innovation Platform for Biotechnology



BIOPOLIS Location: Wanchang Valley, Rayong

Strategic Technology Area in EECi

Innovative Agriculture (Agriculture / Aquaculture)

- Phenotyping facility / greenhouse to do research on phenomics for trait improvement
- Plant factory for production of high value crops

Functional Ingredient (Food & Feed, Cosmetic, Pharmaceuticals)

- GMP facility to do scale up production for functional ingredients (plants & microbes)
- Application testbed for nutraceutical, cosmeceutical and pharmaceutical industries

Chemical & Bioprocess Technology (Biochemical, Biomaterial, Biospecialty)

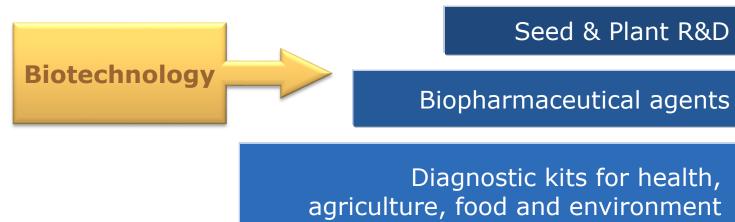
- Bio-refinery facility to do scale up research & pilot production for market testing ex. pretreatment, fermentation, extraction, downstream process
- Facilities for preparation process of tailoring specialty bio-based master batch (structure/surface modification units, mixing & compound units, preimpregnated pellet & tape unit, multi-structure design unit & verification)



Biotechnology: BOI Eligible Activities

Investment Incentives

- 8 Years CIT exemption (with no cap)
- Exemption of import duties on machinery
- Exemption of import duties on raw materials used in production for export
- Non-tax incentives



Biomolecule & bioactive compounds using microorganisms, plant cells and animal cells

Raw Materials and/or essential materials used in molecular biological experiment

Biological substances analysis and/or synthesis services



One Start One Stop Investment Center (OSOS)



Consolidating staff from numerous investment -related agencies



Easing & speeding procedures for new investors



Provides comprehensive information and advice on establishing operation in Thailand



Provides useful contacts with key public and private organizations



1-Stop for visas & work permits In 3 hours "SMART Visa Program"



Assist investors with various applications

More Convenience Less Time More Efficiency!



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Supporting Body: The Medical Products Consortium of Thailand

Main Organizations

















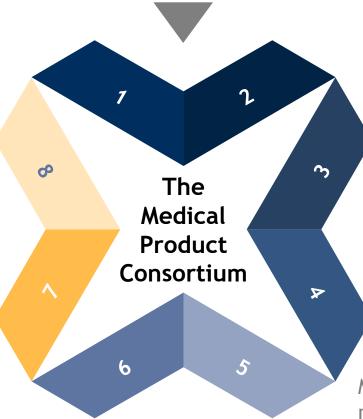


Support medical expert system, medical training, conformity assessment body and notified body

Cooperate in other areas related to objectives

Conduct human development program and knowledge transfer

Disseminate knowledge through cooperation and academic platforms.



Advise on regulations, standards, guidelines and documents related to medical products

Promote and support registration system, central database and big data to integrate medical database

Promote the introduction of medical products for commercial purpose

Monitor the progress of missions related to medical products development





For More Information

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