



SMART ECO

APEX GREEN INDUSTRIAL ESTATE

Data Book

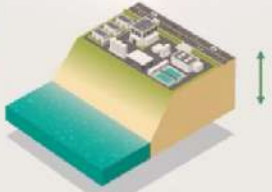


80 km Suvarnaphumi Airport
120 km U-Tapao Airport



100 km Laem Chabang Commercial Port
130 km Map Ta Phut Industrial Port

Area
2,191.49 rais



42 meters
above sea level



APEX GREEN INDUSTRIAL ESTATE

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APEX GREEN INDUSTRIAL ESTATE

Introduction to Apex green Industrial estate in Thailand

Apex green Industrial estate

Project location : at Hua Samrong Sub-District, Plaeng Yao District, Chachoengsao Province; intersection 331 Phanom Sarakham-Sattahip Road - intersection 331 Ban Prong Nok Pao, Noen Rai - Nong Ruea (Chor Chor 3015 Road, around Kilometer 8+400) in the Purple Zone.

Apex Green Industrial Estate Project has a total project area of 2191.49 rai (5178.77 acre), is an industrial area specially designed and developed for factories and warehouses. For investors to invest conveniently and rapidly operation.

Apex green Industrial estate has built an environmentally friendly, graceful park, provided complete infrastructure to enable park investors, factory employees and community people to work efficiently and live happily The complete infrastructure provides fast, convenient and high-quality services for manufacturers who come to invest. Our industrial estate pays attention to environmental protection and has formulated special plans for prevention and reduce environmental pollution.

Parent company – (Kitti wana group)

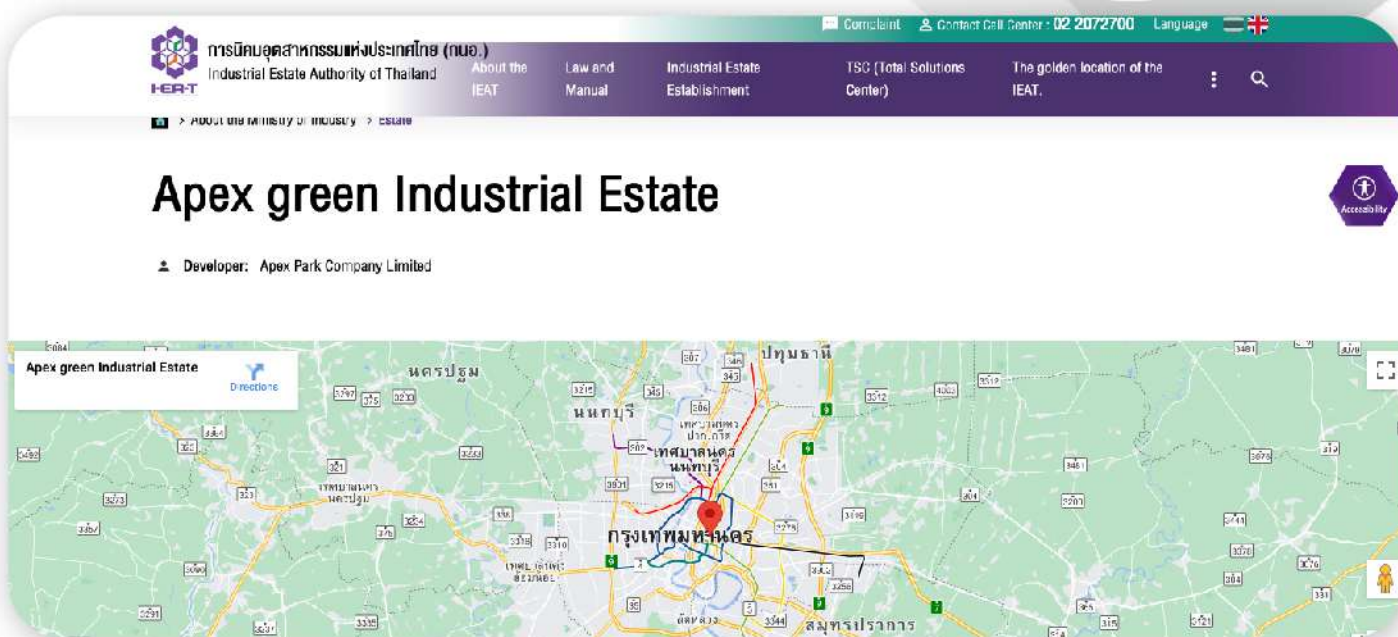
Kitti wana group is an integrated economic timber planting and Thailand's first comprehensive commercial eucalyptus business group. Kittiwana group has experience in running a full-round service business, Whether it is the research and production of seedlings, promotion and distribution, planting economic wood gardens, including the provision of large-scale machinery and manufacturing and processing services. Since its inception, the group has made continuous progress in the cultivation technology of new eucalyptus species and has cultivated a large number of species that are suitable for the complex terrain and climate of Thailand and meet international standards.

History of founders

Mr.Kitti Damnernchanwanit, the founding chairman of Kitti wana group and The founding president of Thailand's Advance Agro company, a famous patriotic overseas Chinese leader, has made great contributions to many undertakings in China and Thailand over the years. Mr.Kitti has been engaged in the export of agricultural products for many years, and has made significant contributions to the prosperity of Thailand's economy. In 1988, he was awarded a doctorate in business administration from Ramkhamhaeng University in Thailand. In 2006, he was awarded an honorary doctorate in forestry from Kasetsart University by the King of Thailand. Formerly held prominent positions such as a member of Thailand parliament of Lords and an economic advisor to the Thai State Department. His business groups now cover



Cooperation



Industrial Estate Authority of Thailand (IEAT) and Apex Park Company Limited Co-approval of new industrial estate : Apex green Industrial estate



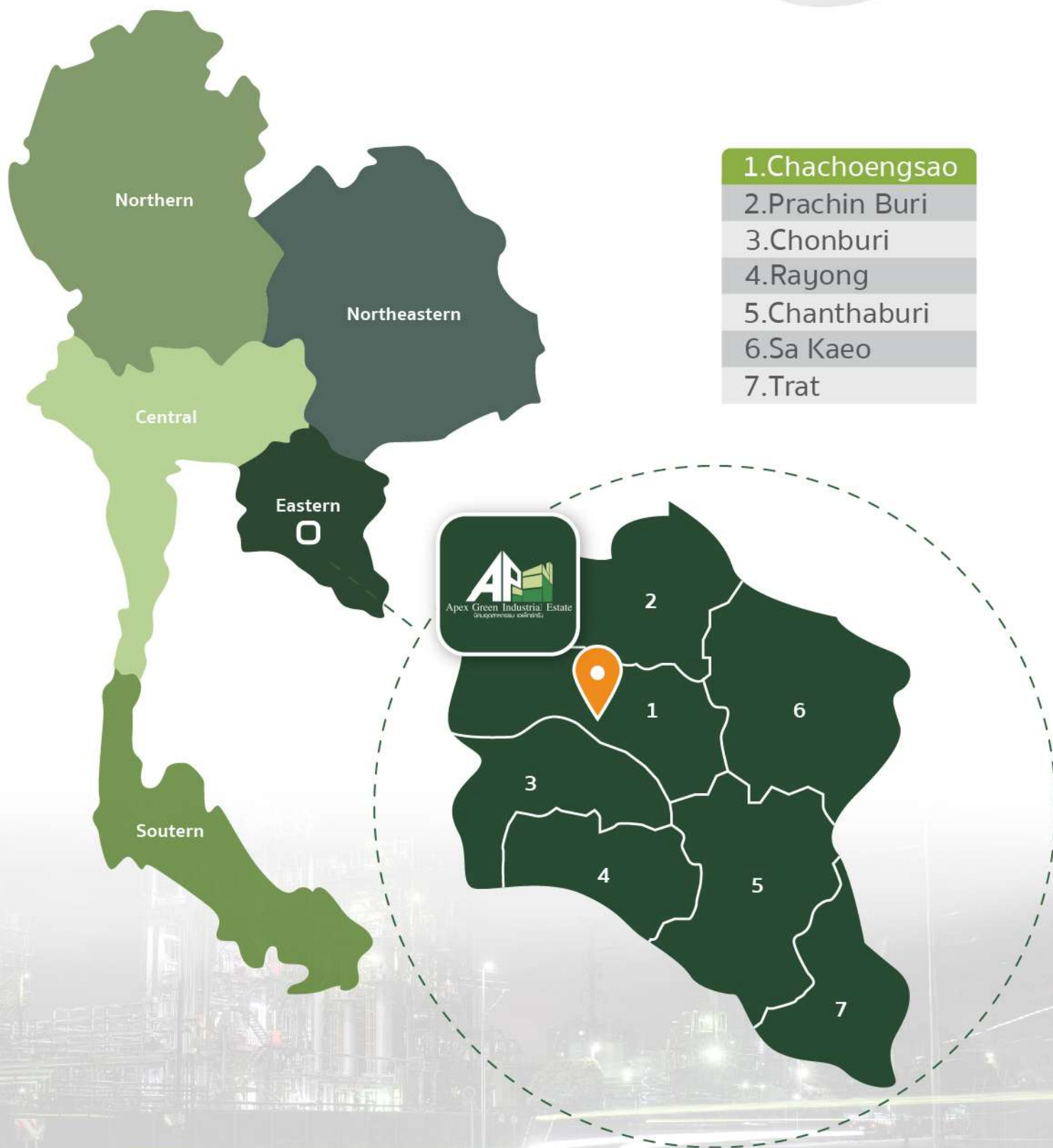
Promoted Zones For Targeted Industries
List of Promoted Zones for Targeted Industries :

1. WHA Rayong Industrial Estate	11. Amata City Cholburi I.E.
2. Eastern Seaboard I.E. (Rayong)	12. Amata City Cholburi I.E. (2 nd Project)
3. WHA Eastern Industrial Estate (Map Ta Phut)	13. Amata City Rayong I.E.
4. WHA Eastern Seaboard I.E.1	14. Pinthong Industrial Estate
5. WHA Chonburi I.E.1	15. Pinthong Industrial Estate (Laem Chabang)
6. WHA Chonburi I.E.2	16. Pinthong Industrial Estate (3 rd Project)
7. WHA Eastern Seaboard I.E.2	17. Pinthong Industrial Estate (4 th Project)
8. WHA Eastern Seaboard I.E.3	18. Pinthong Industrial Estate (5 th Project)
9. WHA Eastern Seaboard I.E.4	19. TFD I.E.(2 nd Project)
10. CPGC I.E. (Rayong)	20. Yamato Industries I.E.
	21. Smart Park I.E.
	22. Asia Clean Industrial Estate Chonburi
	23. BlueTech City
	★ 24. Apex Green Industrial Estate

Apex green Industrial estate located at Chachoengsao, the special economic zone, eastern economic corridor (EEC)

1. Executive summary

1.1 Location Map of Apex green Industrial estate in Thailand





Distance to important places

Place	Distance
Bangkok	106 kilometers
Suvarnabhumi Airport	86 kilometers
Laem Chabang Port	98 kilometers
Map ta phut port	120 kilometers
Nakhon Ratchasima Province (Workforce output place)	219 kilometers

1.2 Introduction of Apex green Industrial estate

information	Detail
1. Company Introduction	
Year of establishment	2021
Total area	2,191.49 rai
Available area	1,606.16 rai
2. Utilities	
2.1 Power supply	PEA of 100 Megawatt substation
2.2 Water supply	
Reservoir capacity	300 million cubic meters
Water supply capacity	15,000 cubic meters / per day
2.3 Waste water	
Wastewater treatment plant capacity	12,000cubic meters/ per day

3. Residence

3.1 Apartment

350 unit

3.2 House

200 unit

4. Hotel

Nearby 3 hotel

5. Medical facility

Nearby 9 hotel

6. Vocational school and University

3 universities, and 7 vocational and technical schools nearby.



1.3) Preferential policy

1.3.1) Preferential policies provided by the Board of Investment of Thailand (BOI)

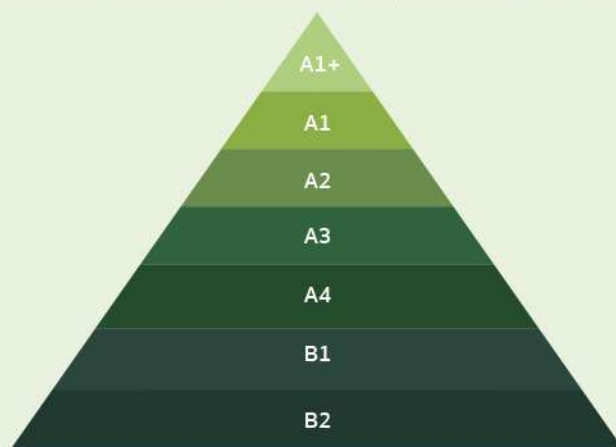
Criteria for granting preferential Investment rights and interest

The Board of Investment of Thailand classifies two types of preferential rights as follows:

Press preferential rights by industry category

Press preferential rights by industry category

Classified incentives based on importance of activities



Merit-based incentive

Grant additional incentives to attract and encourage overall development of the country and industry's beneficial Investment or expenditure.

1. Competitiveness enhancement
2. Promoting regional prosperity and decentralization
3. Development of industrial zones (Excluding industry category B)

The Board of Investment has formulated the following 2 group of preferential rights and interests based on the importance of industry categories:

Group A

Summary table of Group A activity-based incentives :

Industry Category	Exemption of corporate income tax	Exemption of machine import tax	Exemption of import duty on raw materials for use in production for export	Non-tax incentives
A1+ Covers upstream industries utilizing advance technology and innovation, and targeted technology development activities (biotechnology, nanotechnology, advanced material technology), with technology transfer in collaboration with academic/research institutes.	10-13 years (no cap) + Merit-based incentives	✓	✓	✓
A1 The knowledge-based industry is mainly based on the design and R&D industry that enhances national competitiveness.	8 years (no cap) + Merit-based incentives	✓	✓	✓
A2 Infrastructure activities for the country's development, activities using advanced technology to create value, with no or very few existing investments in Thailand	8 years + Merit-based incentives	✓	✓	✓
A3 High technology activities which are important to the development of the country, with a few investments already existing in Thailand.	5 years + Merit-based incentives	✓	✓	✓
A4 Activities with lower technology than A1-A3 but which add value to domestic resources and strengthen the supply chain.	3 years + Merit-based incentives	✓	✓	✓

Group B

Summary table of Group B activity-based incentives

Industry Category	Exemption of corporate income tax	Exemption of machine import tax	Exemption of import duty on raw materials for use in production for export	Non-tax incentives
B1 Supporting industry that does not use high technology, but is still important to the value chain.	✗	✓	✓	✓
B2 Supporting industry that does not use high technology, but is still important to the value chain.	✗	✗	✓	✓

Additional preferential rights according to the value of the project

Give additional preferential rights and interests to encourage investment or expenditure in areas that are beneficial to the overall development of Thailand or industry. The Investment Committee has formulated guidelines for granting additional preferential rights and interests according to the value of the project.



1. Merit-based incentives for competitiveness enhancement

For projects that have been invested to enhance national competitiveness. The investment funds or expenditures are calculated as follows:

Investment /expenditure category	Additional CIT exemption limits (as percentages of investment or expenses)
1. Research and development of technology and innovation: self-research and development within the enterprise, outsourcing to other institutions in Thailand for research and development, or joint research and development projects with foreign research and development institutions	300%
2. Donations to technology and personnel development funds, educational institutions, specialized training centers in science and technology. The plans must be approved by the Investment Commission.	100%
3. Fees paid of the use of commercialized technology /licenses developed in Thailand	200%
4. Training on advanced technology	200%
5. Provide advanced technical training and technical assistance to local suppliers whose shares are not less than 51% owned by Thais	200%
6. Product and packaging product design. Enterprise self-design or outsourcing to design in Thailand.	200%

Additional incentives based on ratios of investment capital or expenditure to total sales

Ratio of investment capital or expenditure to total sales in the first 3 years.	Additional corporate income tax exemption period
1% or less than 200 million baht	1year
2% or less than 400 million baht	2year
3% or less than 600 million baht	3year

2. Merit on Decentralization

Projects established in the following 20 low-income prefectures can enjoy additional preferential benefits : Kalasin, Chaiyaphum, Nakhon Phanom, Nan, Bueng Kan, Buriram, Phrae, Maha Sarakham, Mukdahan, Mae Hong Son, Yasothon, Roi Et, Si Sa Ket, Sakon Nakhon, Sa kaeo, Sukhothai, Surin, Nong Bua Lamphu, Ubon Ratchathani and Amnatcharoen (excluding border provinces in Southern Thailand and Special Economic Zones which have separate special incentive packages) shall receive additional incentives as follows :

In addition to the basic preferential rights and interests, the exemption from corporate income tax will be increased for 3 years; if A1 and A2 industries have been exempted from corporate income tax for 8 years, they will be exempted from corporate income tax for another 50% for 5 years.

In order to promote decentralization, the additional preferential rights and interests are summarized as follows:

	A1+	A1	A2	A3	A4	B1	B2
Exemption of corporate income tax	10 years (no cap)	8 years (no cap)	8 years	5 years	3 years	✗	✗
Additional corporate income tax exemption	3 years	✗	✗	3 years	3 years	3 years	✗
Total	13 years (no cap)	8 years (no cap)	8 years	8 years	6 years	3 years	✗
50% corporate income tax reduction for 5 years	✗	✓	✓	✗	✗	✗	✗
Double deduction from the costs of transportation, electricity and water supply for 10 years.	✓	✓	✓	✓	✓	✓	✗
25% more deduction for the installation and construction costs of facilities	✓	✓	✓	✓	✓	✓	✗

3. Merit on industrial area development

Projects located within promoted industrial estates or industrial zones shall be granted one additional year of corporate income tax exemption.

The additional preferential rights and interests for the development of industrial zones are summarized as follows:

	A1+	A1	A2	A3	A4	B1	B2
Exemption of corporate income tax	10 years (no cap)	8 years (no cap)	8 years	5 years	3 years	✗	✗
Additional corporate income tax exemption	1-3 years	1-3 years	1-3 years	1-3 years	1-3 years	1-3 years	✗
Total	11-13 years (no cap)	9-11 years (no cap)	9-11 years	6-8 years	4-6 years	1-3 years	✗

Application for additional preferential benefits according to the value of the project

1. Apply for investment projects that enjoy additional preferential rights and interests according to the value of the projects, The application must be submitted before the end of the period for the project to enjoy the preferential benefits of corporate income tax exemption, The end of this period refers to the end of the period of years for which it enjoys exemption from corporate income tax, Or the upper limit of corporate income tax exempted from preferential rights and interests has been used up. The starting time of enjoying additional preferential benefits according to the value of the project can be traced back to the date of submission of the application, it is necessary to check the preferential rights and interests of the project before applying, In order to avoid the gap period of preferential rights. Projects that apply for additional preferential benefits to improve competitiveness, In the case of investment or expense expenditure, The calculation of the investment and expenditure can be included in the application.

2. According to additional preferential benefits according to the value of the project ,if the relevant conditions are met, Applicants can apply for one or more preferential benefits.

3. For investment projects (Class B1 industries) that have not been exempted from corporate income tax, if an application is made to increase the period of corporate income tax exemption based on the project value, the application for increasing the period of corporate income tax exemption must be submitted simultaneously with the project application.

Benefits of improving production efficiency package

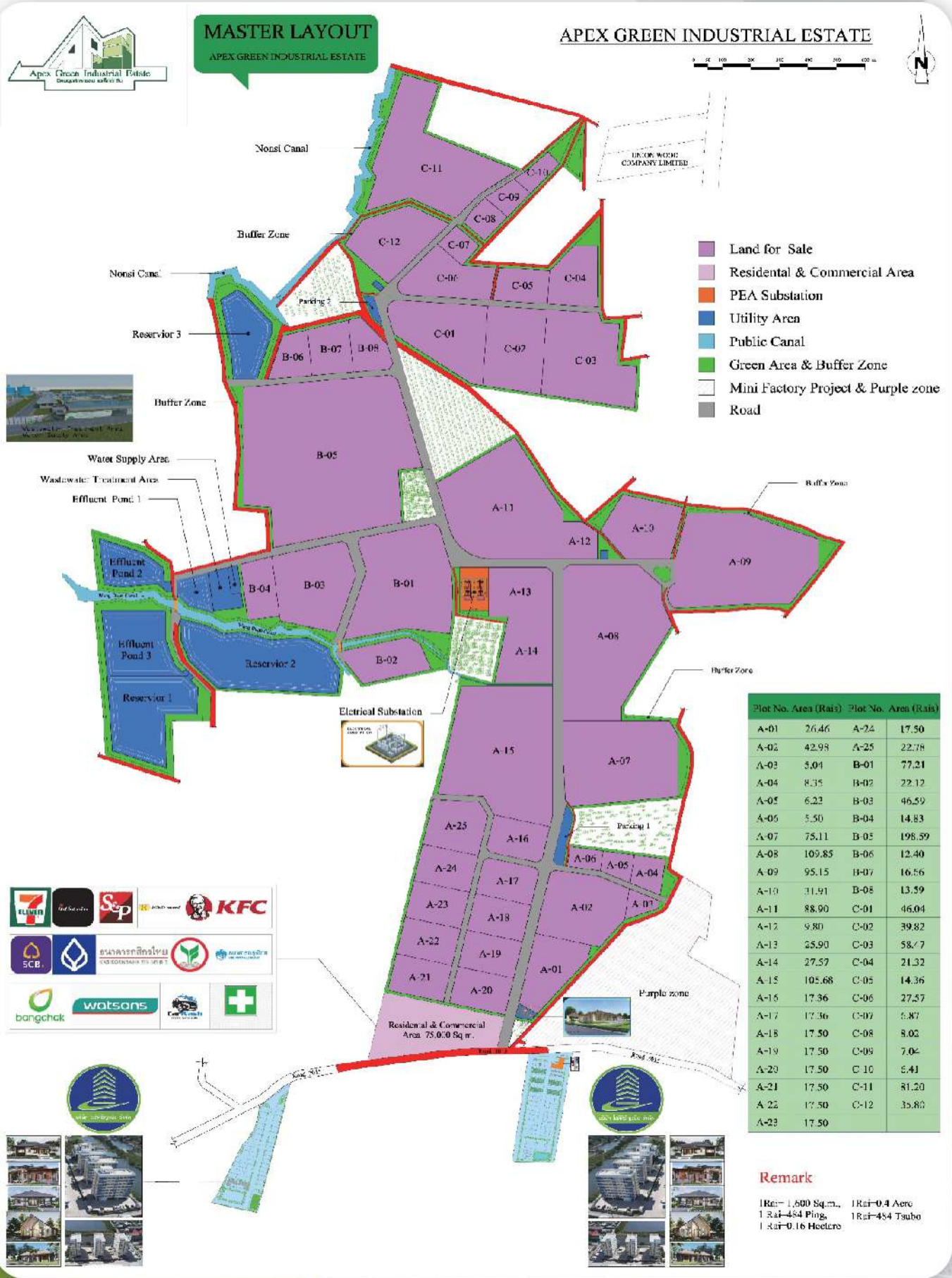
The Board of Investment allows enterprises that have been allowed to enjoy preferential investment rights and interests to give duty-free imported machinery to adjust production efficiency and improve competitiveness as follows :

1. Machines used in research and development
2. Machines used to prevent and deal with environmental pollution
3. Machines used to produce electronic products and components, Whether it is to import new machines to replace old ones or to expand the original production capacity, the project has been approved for operation or not are all allows

Apply for preferential rights to be exempted from corporate income tax

In order to make the tax exemption benefits more efficient, and to check whether the tax exemption benefits are correct and meet the investment conditions, and clearly evaluate whether the investment preferential benefits are worth it. It is stipulated that enterprises applying investment preferential benefits must report project performance in the format specified by the Board of Investment. Only after the Board of Investment approves the inspection so can enjoy the current year's enterprise income tax exemption benefits.

2. Master layout of Apex green Industrial estate



3. Utilities



3.1 Utilities and Service cost summary

1. Electricity	Based on PEA's rate (Provincial Electricity Authority)	Electricity price depends on time of use
2. Water supply	Based on Apex green industrial estate standard price	25 Baht/ m ³
3. Wastewater treatment	Based on wastewater discharge standards and wastewater parameters	Wastewater charge is depended on 80% of water consumption
	8 Baht/ m ³	
4. Maintenance fee	1,000 Baht / month/ rai	
5. Natural gas	- rovider : PTT	
6. Solar	Cheaper than electricity 15-20%	
7. Communication costs	- Telephone, Internet, Fiber optic cable - Provider : AIS	Installation and service fees charged by the service provider

3.2 Electricity price of Provincial Electricity Authority (PEA)



Time of use rate : TOU

	Demand charge (THB/kW) Peak	Energy Charge (THB/kWh)		Service Charge (THB/Month)
		Peak	Off peak	
22 - 33 kV.	132.93	4.1839	2.6037	204.07
<22 kV.	210.00	4.3297	2.6369	204.07

The electricity tariff above will be effective in the electricity bill of the January 2023 onwards.

Note : At voltage 22–33 kV

Peak : 09.00 a.m. – 10.00 p.m. Monday – Friday

Off Peak : 10.00 p.m. – 09.00 a.m. Monday – Friday

: Saturday – Sunday, Public holiday and The Royal Ploughing Ceremony day

Note:

1. Power Factor charge, Ft and value added tax will be calculated by Provincial Electricity Authority
2. VAT is not included in the above rate

3.3) Price of water supply

Price	Unit
25 THB	m ³

Note : Water quality and penalty shown in Appendix A

3.4 Price of wastewater treatment service

Wastewater treatment price(THB/Month) = Service fee (normal rate) x Penalty Rate

: Penalty if discharge wastewater value is greater than announced water treatment price

: Waste water parameters and penalty shown in Appendix B

Example : Wastewater treatment fee is charged according to BOD measurement as follows

Normal rate (No exceeding parameters)	BOD (mg/L)	Service fee (Unit: THB/ cu.m/month)
	≤ 500	8

1.1 The penalty rate shall be applied in case of parameters value are exceeding to Apex green industrial estate's standard. The penalty shall be calculated by following methods;

- If BOD is greater than 500–750, penalty as 3 times.
- If BOD is greater than 750, penalty as 5 times.

1.2 In case of the customer's wastewater parameters seriously exceed the standard, leading to severe overload or even collapse of the industrial park's wastewater treatment system, the Industrial estate will issue rectification requirements to the customer within the specified period. If the customer does not take corrective measures, the customer will be considered as a non-compliant customer, and Apex green industrial estate has the right to close the gate, suspend water supply, suspend receiving sewage and other measures. In further that, Apex green industrial estate shall consider informing Department of industrial works for legal action to demand temporary suspension of factory work until such factory complies with the industrial's standards.

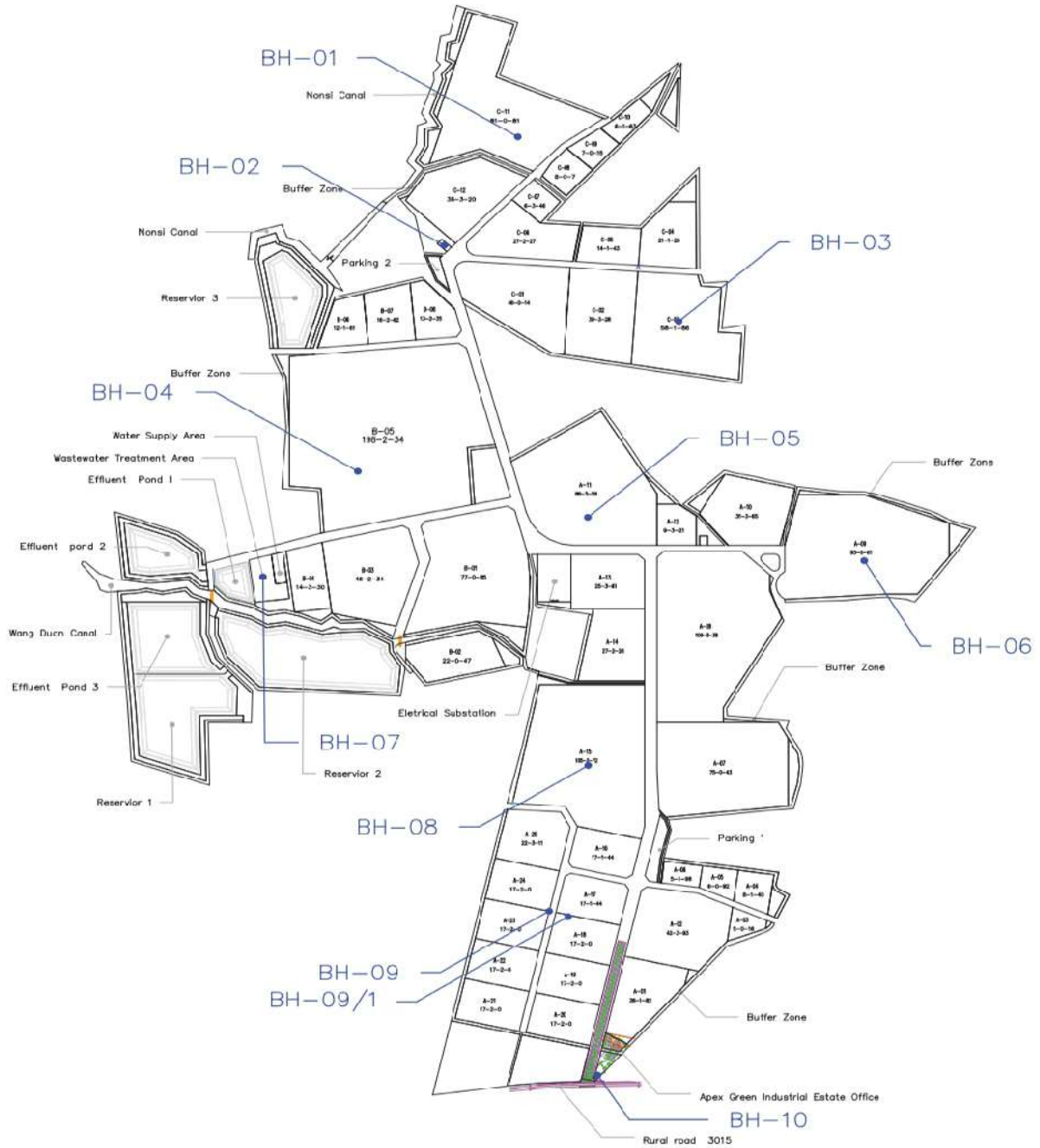
2. The payment of wastewater treatment service fee shall be made in monthly according to payment terms within time specified by Apex green industrial estate.

3. Apex green industrial estate reserved the right to change and amend wastewater treatment service fee.

4. Construction

4.1) Soil loading test

BOULTER STEWART LTD. บริษัท โบลเตอร์ สจ๊วต จำกัด



APEX GREEN INDUSTRIAL ESTATE

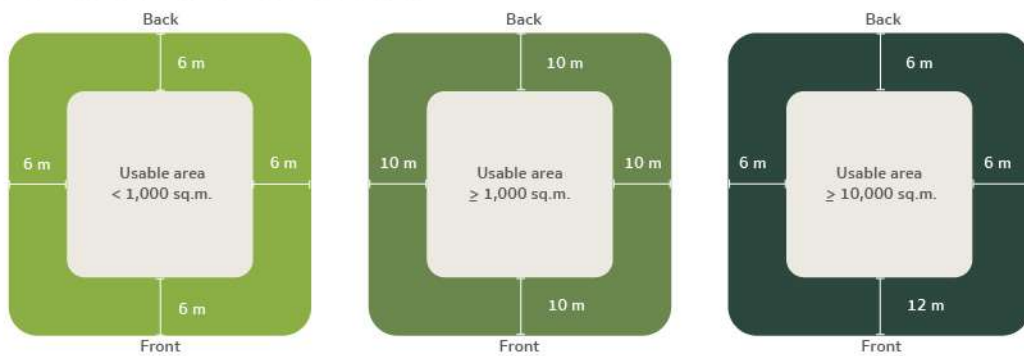


CONSTRUCTION MATERIAL TESTING - STEEL TEST - SOIL TEST - CONCRETE TEST - ASPHAL TEST - REFRACTORY TEST - PILE TEST - SOIL INVESTIGATION TEST - TOPOGRAPHIC SURVEY

BH No.	Loading capacity (ton/square meter)		
	Depth 1 m.	Depth 2 m.	Depth 3m.
BH-01	30	40	50
BH-02	20	45	50
BH-03	30	40	50
BH-04	20	30	45
BH-05	25	35	45
BH-06	19	25	40
BH-07	8	23	27
BH-08	9	13	6
BH-09	14	40	45
BH-09/1	22	25	28
BH-10	9	21	30

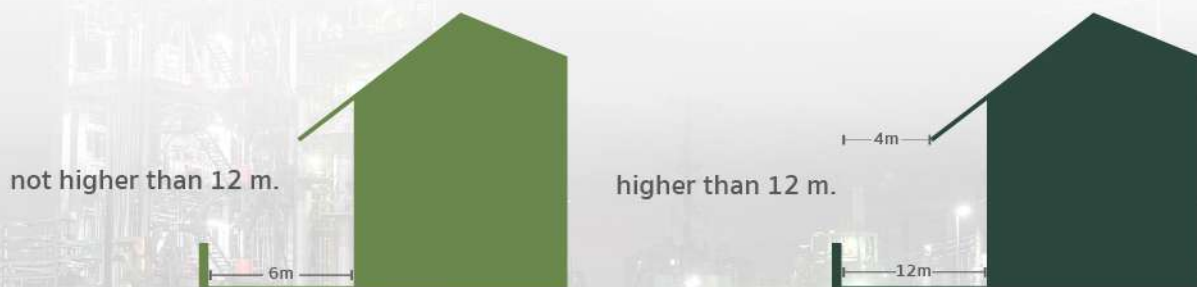
4.2) The standard of building construction:

1. Setback according to the usable area



*Remarks : Buildings with a height exceeding 23 meters or buildings with a usable area exceeding 10,000 square meters must provide roads with a width of not less than 6.00 meters and no obstacles around the building to facilitate the easy entry and exit of fire trucks.

2. Setback according to the height of building



*Remarks : Setback according to the height of the building shall leave a clearance only from the front area of the boundary line of the Land Plot or the side with an entrance and exit.

3. Building Coverage Ratio

$$\text{Usable Area} = \frac{\text{Building Area} \leq 70\%}{\text{Land Area}} < 10,000 \text{ sq.m.}$$

$$\text{Usable Area} = \frac{\text{Building Area} \leq 90\%}{\text{Land Area}} \geq 10,000 \text{ sq.m.}$$

3. building height and setback

The construction or modification of the building in the Industrial estate must follow ;

(1) The building which not higher than 12 meters, the gap between building stake or building wall to the front boundary area or exiting area should not less than 6 meters, The building which higher than 12 meters, the gap between building stake, to the front boundary area, or exiting area, should not less than 12 meters, and the building roof gap not less than 4 meters. the height of the building can be measured by checking in vertical from the road level or construction area to the highest of the building.

In the case of pipe support structures, transformer support structures, guardhouse buildings, garage roofs, gas pressure regulation stations, shrines, or flagstaff, construction is permitted close to land boundaries.

(2) The construction and modification of the building which is close to the road of the industrial estate (not the front side, or exiting area) should have a gap at less 6 meters.

(3) the construction and modification of the building which is close to other entrepreneur's areas, The gap between the building stake to the area boundary should not less than 5 meters, and the building roof not less than 2 meters. Excepting the pipe support structure can construct next to the boundary but should not be obstructing traffic in case of the fire engine can extinguish the fire.

(4) Water storage should have a gap from the boundary area at less 5 meters.

(5) The building that is not higher than 1.20 meters of ground level from behind a road in an industrial area and that has no roof or building covering must have a gap between the building and the fence not less than 2.00 meters and should not be obstructing traffic in case of the fire engine can extinguish the fire.

(6) The building which special high or special large should have a gap according to the building regulation.

(7) The resident building, commercial building, or commercial building which located outside the industrial estate should have a gap according to the building regulation.

(8) The industrial enterprise must spare the space at less at the 30% of the area.

(9) The industrial enterprise must provide the parking area 1 car per building area 240 m², the remaining space should be round up.

(10) The industrial enterprise must plant the tree in the factory in the responsible area at less 1 tree per 1 Rai (not less than 1.5 meters). And has to shown in the factory plan and submit to IEAT for construction.

5. Labour

5.1) Thailand' s labour by demographic area

Total population 66.09 million people, labour force 39.9 million people

North:(17 provinces)

- Population over the age of 15 : 9.5 million
- Labour force : 6.2 million (15.6%)
- Minimum wage : 320 – 340 THB/day

Northeast:(20 provinces)

- Population over the age of 15 : 14.9 million
- Labour force : 9.5 million (23.9%)
- Minimum wage : 328 – 340 THB/day

Bangkok

- Population over the age of 15 : 7.8 million
- Labour force : 5.7 million (14.3%)
- Minimum wage : 353 THB/day

Central :(25 provinces)

- Population over the age of 15 : 18.5 million
- Labour force : 13 million (32.5%)
- Minimum wage : 332 – 354 THB/day

South:(14 provinces)

- Population over the age of 15 : 7.7 million
- Labour force : 5.3 million (13.4%)
- Minimum wage : 328 – 340 THB/day

Source : National statistical office, 2022

Thailand workforce's education

Level of education	Unit (million)	Proportion (%)
No education	2.20	3.75%
Less than elementary (<Grade 6)	11.10	18.94%
Elementary (Grade 6)	11.10	18.94%
Lower secondary (Grade 9)	10.65	18.17%
Upper secondary (Grade 12)	10.80	18.42%
Higher level	12.04	20.54%
Others	0.18	0.31%
Total	58.62	100%

Source : National Statistical Office of Thailand (2022)



5.2) Minimum wage by law

Minimum wage	Area
354 baht (3 provinces)	Chon Buri, Rayong, and Phuket
353 baht (6 provinces)	Bangkok, Nonthaburi, Nakhon Pathom, Pathum Thani, Samut Prakarn, and Samut Sakhon
345 baht (1 provinces)	Chachengsao
343 baht (1 provinces)	Ayutthaya
340 baht (14 provinces)	Prachin Buri, Nong Khai, Ubon Ratchathani, Phang Nga, Krabi, Trat, Khon Kaen, Chiang Mai, Suphan Buri, Song Khla, Surat Thani, Nakhon Ratchasima, Lop Buri, and Saraburi
338 baht (6 provinces)	Mukdaharn, Kalasin, Sakon Nakhon, Samut Songkram, Chantaburi, and Nakhon Nayok
335 baht (19 provinces)	Petchabun, Kanchanaburi, Bueng Karn, Chainart, Nakhon Panom, Payao, Surin, Yasothorn, Roi Et, Loei, Pattalung, Uttaradit, Nakhon Sawan, Prachuap Kiri Khan, Pitsanulook, Ang Thong, Sra Kaew, Buriram, and



Minimum wage	Area
332 baht (22 provinces)	Amnart Charoen, Mae Hong Sorn, Chiang Rai, Trang, Si Sakate, Nong Bua Lampu, Uthai Thani, Lampang, Lamphun, Chumporn, Mahasarakarm, Sing Buri, Satun, Prae, Sukhothai, Kampaengpetch, Ratchaburi, Tak, Nakhon Si Thammarat, Chaiyaphum, Ranong, and Pichit
328 baht (5 provinces)	Yala, Pattani, Narathiwat, Nan, and Udon Thani

Effective from 1st October 2022 onward

5.3) Labor cost comparison: Unskilled and Semi-skilled labour

Cost	Bangkok	Chonburi	Rayong	Chachoengsao
Minimum wage	353	354	354	345
Comparison index	102%	102%	102%	100%
Real wage	353 – 403	353 – 404	353 – 404	345 – 395
Allowance	70–140	75–145	75–145	60–120
Social security	17.6–20.15	17.7–20.2	17.7–20.2	17.2–19.7
Total cost	440 – 563	446 – 569	446 – 569	422 – 534
Average	501	507	507	478
Index	104%	106%	106%	100%
Difference (THB/Day)	23	29	29	BASE

5.4) Labor Costs Survey
Latest update: 2023

Position	Education level	Salary (THB)
Manufacturing jobs		
1.Worker	Upper secondary	345 THB / Day 10,350 THB / Month
2.Technician / Operator	Professional Skills Certificate / Technical-vocational	11,000 – 12,000 THB / Month
3.Supervisor	Technical-vocational / Bachelor Degrees	15,000 – 25,000 THB / Month
4.Engineer	Bachelor's Degree (fresh graduate)	18,000 – 25,000 THB / Month
5.Engineer	Bachelor's Degree (2-5 years of work experience)	20,000 – 35,000 THB / Month
6.Senior Security Officer	Bachelor's Degree	18,000 – 25,000 THB / Month
Office jobs		
1.Office worker	Technical-vocational / Bachelor Degrees	12,000 – 15,000 THB / Month
2.Accountant	Bachelor's Degree	12,000 – 15,000 THB / Month
3.Accountant	Bachelor's Degree (1-5 years of work experience)	15,000 – 25,000 THB / Month
4.Manager	Bachelor's Degree / Master's Degree (5 years of work experience)	25,000 – 50,000 THB / Month
5.Senior manager	Bachelor's Degree / Master's Degree (10 years of work experience)	40,000 – 100,000 THB / Month

5.5) Education in Thailand
175 of higher education institutions

Open University	2
Public University	81
Private University	42
Private college	18
Research institute	19
Other government universities	20
Private specialized educational institution	12

Source: Office of The Higher Education Commission (2021)

912 of technical-vocational education institution

Institute of Technology	125
Faculty of Industrial and Social Science Education	139
Faculty of Business Administration and Tourism	4
Business College	5
Arts and Crafts College	2
Polytechnic	51
Vocational College	37
Management Technological College	11
Agricultural Technology College	43
Gold and Jewelry Processing College	1
Seaboard Industrial College	3
Faculty of Fisheries	3
Technical School	1
Faculty of Science Database Technology	1
The Agricultural and Mechanical College	1
Buddhist College	1
Private College	484

Number of students enrolled in technical college

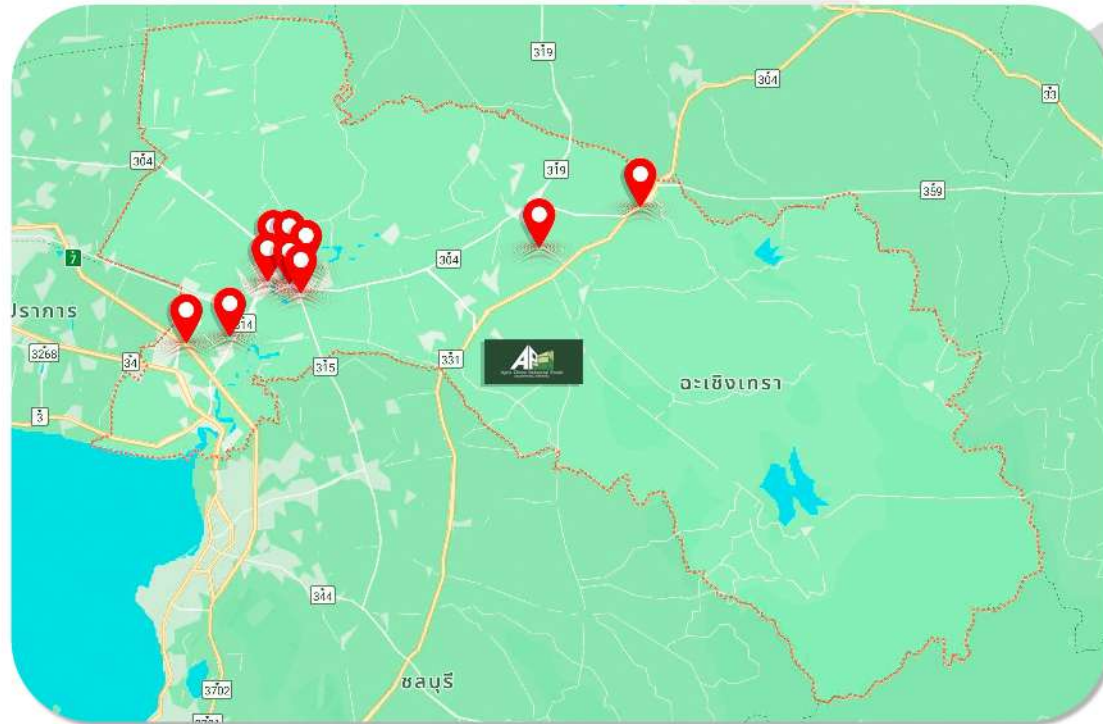
#	Course of study	Grand total		
		Public college	Private College	Total
1	Industry	388,843	124,624	513,467
2	Business / Business Administration	174,390	186,225	360,615
3	Visual Arts	13,809	5,736	19,545
4	Home Economics	21,227	542	21,769
5	Agriculture	31,998	96	32,094
6	Fisheries	1,637		1,637
7	Tourism Industry	20,597	12,902	33,499
8	Textile Industry	222		222
9	Information and Communication Technology	15,738	3,933	19,671
10	Entertainment and Music Industry	126	77	203
11	Merchant Navy	346	148	494
12	Innovation Technology and Industry	31		31
Total		668,964	334,283	1,003,247

Number of Graduates from Higher Education in 2022

Bachelor's Degree	256,271
Master's Degree	21,735
Doctoral Degree	3,318
Total	281,324

Source: Tertiary Education Commission Report on March 31, 2022

5.6) Distribution map of educational institutions in Chachoengsao



Universities in Chachoengsao province

1	Rajabhat Rajanagarindra University	Education Studies, Management Science, Science and Technology, Humanities, Industrial Technology
2	Chalermkarnchana University	Nursing, Public Health, Law, Political Science, Business Administration
3	Buddha Sothorn Buddhist College	Buddhism, Political Science, Sociology and Anthropology

Vocational and High Vocational Certificate Institution

1	Chachoengsao Technical College	Mechanical Technology, Metal Technology, Production Technology, Industrial Technology, Electronics, Electrics, Transport Technology, Construction
2	Chulaporn Technical College (Ladkwang campus)	Business Computer, Mechanical Technology, Production Technology, Metal Technology, Industrial Technology, Electrics
3	Chachoengsao Vocational College	Marketing, Household Service and Management, Accounting, Secretarial Studies, Design Studies, Business computer, Food Business and Nutrition
4	Chachoengsao College of Agriculture and Technology	Agriculture, Business Computer, Plant Science, Animal Science
5	Chachoengsao Polytechnic College	Marketing, Mechanical Technology, Food Business and Nutrition
6	Phanom Sarakham Technical College	General Management, Marketing, Accounting, Business Computer, Mechanical Technology, Information Technology, Electronics, Electrics
7	Bangpakong Industrial and Community Education College	Human Resource Management, Accounting, Business Computer, Mechanical Technology, Electrics

6.Livingfacilities

6.1) Residential area

Houses



Apartments



Taranan apartments at Bangwua sub-districts (Affiliated Company)



Type	Unit	Distance
Houses	150	0.5-1 Kilometers
Apartments	350	0.5-1 Kilometers
Taranan apartments at Bangwua sub-districts	350	55 Kilometers

6.2) Hotel



Hotel	Unit	Distance	Price
VSquare	40	10 Kilometers	1,400 – 1,900 Baht / Night
Sunrise lagoon hotel and golf	79	24 Kilometers	1,500 – 5,000 Baht / Night
Suntara Wellness Resort & Hotel	168	36 Kilometers	1,500 – 3,000 Baht / Night

6.3) Hospital



No.	Hospital	Distance (Kilometers)	Active bed
1	Plaeng Yao Hospital	12	30
2	Sanamchaikhet Hospital	19	120
3	Phanat Nikhom Hospital	33	120
4	Phanom Sarakham Hospital	41	120
5	Buddhasothorn Hospital	42	595
6	Kasemrad Chachoengsao	55	100
7	Bangpakong Hospital	40	100
8	Wat Saman Rattanaram hospital	37	150
9	Ruampat Chachoengsao Hospital	35	100

7.Target industry



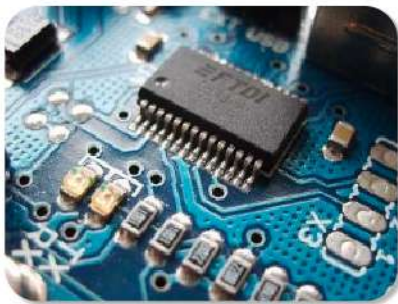
Hardware



Machinery



Automotive parts



Electronics



Plastic bottle



Appliance



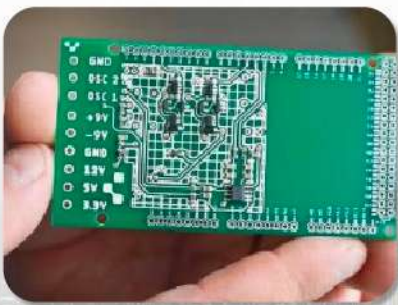
Industrial products



Toilet paper



Transportation equipment manufacturing



Printed circuit board



Glove



Copier machine

Appendix

Appendix A : Industrial water supply standard

Parameter	Unit	Standard
1. Physical Appearance		
Appearance Color	Pt-Co unit	15
Taste and odour	-	non-objectionable
Turbidity	NTU	4
pH	-	6.5-8.5
2. Chemical Appearance		
TDS	mg/l	650
Conductivity	us/cm	1200
Iron	mg/l	0.3
Manganese	mg/l	0.3
Total Hardness as CaCO ₃	mg/l	300
Copper	mg/l	2
Zinc	mg/l	2
Sulfate	mg/l	250
Chloride	mg/l	250
Fluoride	mg/l	0.7
Nitrate as NO ₃	mg/l	50
Nitrate as NO ₂	mg/l	3
3. Biological Appearance		
Total Coliform Bacteria	per 100 ml.	notdetect
E.Coli	per 100 ml.	notdetect
Staphylococcus aureus	per 100 ml.	notdetect
Salmonella spp.	per 100 ml.	notdetect
Clostridium Perfringens	per 100 ml.	notdetect
4. Toxic		
Inorganic Mercury	mg/l	0.001
Lead	mg/l	0.01
Assenic	mg/l	0.01

Selenium	mg/l	0.01
Chromium	mg/l	0.05
Barium	mg/l	0.7
Cyanide	mg/l	0.07
Cadmium	mg/l	0.003
5. Pesticide		
Aldrin and dieldrin	µg/l	0.03
Chlordane	µg/l	0.2
DDT	µg/l	
Heptachlor and Heptachlor Expoxide	µg/l	0.03
Hexachlorobenzene	µg/l	1
Lindane	µg/l	2
Methoxychlor	µg/l	20
6. Trihalomethane		
Chloroform	µg/l	300
Bromodichloromethane	µg/l	60
Dibromochloromethane	µg/l	100
Bromoform	µg/l	100
7. Radioactive		
Gross Alpha Activity	µg/l	0.5
Gross Beta Activity	µg/l	1

Remarks : The industrial water standard of Apex green industrial estate is based on the standard of the IEAT

Appendix B : Wastewater discharge standard

Parameter	Unit	standard IEAT 76/2560	Penalty 3 times	Penalty 5 times
pH	-	5.5-9.0	not range 5.5-9.0 X3 time	
Temperature	°C	≤45	more than 45-60	more than 60 up
Color	ADMI	≤600	more than 600- 800	more than 800 up
Total Dissolved Solids	mg/l	≤3,000	more than 3,000-4,500	more than 4,500 up
Oder	-	non-objectionable	objectionable X 3times	
Total Suspended Solids	mg/l	≤200	more than 200- 300	more than 300 up
Biochemical Oxygen Demand,BOD	mg/l	≤500	more than 500- 750	more than 750 up
Chemical Oxygen Demand ,COD	mg/l	≤750	more than 750- 1120	more than 1125 up
Sulfide	mg/l	≤1	more than 1-1.5	more than 1.5 up
FOG	mg/l	≤10	more than 10-15	more than 15 up
Cyanides, HCN	mg/l	≤0.2	more than 0.2- 0.3	more than 0.3 up
Total Kjeldahl Nitrogen,TKN	mg/l	≤100	more than 100- 200	more than 200 up
Pesticide	-	not detect	more than 0.1-5	more than 5 up
Formaldehyde	mg/l	≤1	more than 1-1.5	more than 1.5 up
Phenols Compound	mg/l	≤1	more than 1-1.5	more than 1.5 up
Free Chlorine	mg/l	≤1	more than 1-1.5	more than 1.5 up
Fluoride	mg/l	≤5	more than 5-7.5	more than 7.5 up
Surfactant	mg/l	≤30	more than 30-45	more than 45 up
Zinc	mg/l	≤5	more than 5-7.5	more than 7.5 up

Trivalent Chromium	mg/l	≤0.75	more than 0.75- 1.125	more than 1.125 up
Hexavalent Chromium	mg/l	≤0.25	more than 0.25- 0.375	more than 0.375 up
Arsenic	mg/l	≤0.25	more than 0.25- 0.375	more than 0.375 up
Copper	mg/l	≤2.0	more than 2.0- 2.5	more than 2.5 up
Mercury	mg/l	≤0.005	more than 0.005-0.0075	more than 0.0075 up
Cadmium	mg/l	≤0.03	more than 0.03- 0.045	more than 0.045 up
Barium	mg/l	≤1	more than 1-1.5	more than 1.5 up
Selenium	mg/l	≤0.02	ore than 0.02- 0.03	more than 0.03 up
Lead	mg/l	≤0.2	more than 0.2- 0.3	more than 0.3 up
Nickel	mg/l	≤1	more than 1-1.5	more than 1.5 up
Manganese	mg/l	≤5	more than 5-7.5	more than 7.5 up
Silver	mg/l	≤1	more than 1-1.5	more than 1.5 up
Total Iron	mg/l	≤10	more than 10-15	more than 15 up

Appendix C : Air emission standard

Stack height	Air emission (kg./rai/day)		
	Standard		
	TSP	Sox	NOx
10 m.	0.456	0.408	0.232
20 m.	0.584	0.448	0.248
30 m.	0.696	0.536	0.296
40 m.	0.800	0.640	0.360
50 m.	1.064	0.696	0.392
60 m.	1.104	0.824	0.464

Remarks: Land users must measure the air pollution from factory chimneys and report the measurement results. The unit of the air pollution rate must comply with the standard of Apex green industrial estate and the Ministry of Industry.

SMART ECO

APEX GREEN INDUSTRIAL ESTATE



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