

Thailand BOI's List of Activities Eligible for Investment Promotion
Section 4: Metal Products, Machinery and Transport Equipment

Activities	Conditions	Incentives
4.1 Manufacture of metal products including metal parts		
4.1.1 Products from metal or alloy powder	Project must have sintering process.	A3
4.1.2 Metal products or metal parts	Project must have metal forming process continuing from iron/steel casting process (using induction furnace) or iron/steel forging process, e.g. machining and stamping within the same project.	A3
4.1.3 Other metal products including other metal parts	1. Continuous forming process from pressing, pulling casting or forging of non-ferrous metal within the same project.	A4
	2. Forming process, e.g. machining and stamping.	B1
4.2 Surface treatment or anodized surface treatment (except coating or coloring treatment for decoration purpose)		
4.2.1 Plating, Coating, modifying or changing the surface using Advanced Technologies		A4
4.2.2 Plating, Coating, modifying or changing the surface using Basic Technologies		B1
4.3 Heat Treatment	Cyanide is prohibited in the process of heat treatment.	A4
4.4 Manufacture of multi-purpose engines and equipment	1. Project must have forming process of main engine parts, e.g. cylinder head, crank case, crankshaft, camshaft, connecting rod, piston and flywheel	A4
	2. Assembling of multipurpose engine or equipment.	B1

Activities	Conditions	Incentives
<p>4.5 Manufacture of machinery, equipment and parts</p> <p>4.5.1 Automation machinery and/or automation equipment with engineering design</p> <p>4.5.1.1 Automation machinery and/or automation equipment with engineering design, including automation system integration and control system configuration.</p> <p>4.5.1.2 Automation machinery and/or automation equipment with engineering design, including control system configuration</p> <p>4.5.2 Machinery, equipment and parts and/or repair of mould and die</p> <p>4.5.3 Assembling of Machinery and machinery equipment</p> <p>4.5.4 Assembling of Robots or Automation Equipment and/or Automation Parts</p>	<p>Projects must have part forming process and/or with engineering design.</p> <p>Projects must have assembling process as approved by the Board.</p>	<p>A1</p> <p>A2</p> <p>A3</p> <p>A4</p> <p>A3</p>
<p>4.6 Manufacture of general automobile</p>	<p>Not eligible for merit-based incentives</p>	<p>B1</p>
<p>4.7 Manufacture of automobile engines</p> <p>4.7.1 Manufacture of automobile engines</p> <p>4.7.2 Manufacture of motorcycle engines</p>	<p>1. Must have forming process of not less than 4 out of 5 parts as follows: Cylinder Head, Cylinder Block, Crankshaft, Camshaft and Connecting Rod.</p> <p>2. Must have engine assembly process</p> <p>1. Must have forming process as follows: Cylinder Head, Cylinder Block, Crankcase, Crankshaft, Camshaft and Connecting Rod.</p>	<p>A3</p> <p>A4</p> <p>A3</p>

Activities	Conditions	Incentives
4.8.2.4 Idling Stop System		A2
4.8.2.5 Autonomous Emergency Braking System		A2
4.8.3 Manufacture of parts for Hybrid, Electric Vehicle (BEV) and Plug-in Hybrid Electric Vehicles (PHEV)		
4.8.3.1 Battery		A2
4.8.3.2 Traction Motor		A2
4.8.3.3 Air-condition system		A2
4.8.3.4 Battery Management System (BMS)		A2
4.8.3.5 Drive Control Units (DCU)		A2
4.8.3.6 On-Board Charger		A2
4.8.3.7 EV Connector with plug and socket		A2
4.8.3.8 DC/DC Converter		A2
4.8.3.9 Inverter		A2
4.8.3.10 Portable Electric Vehicle Charger		A2
4.8.3.11 Electrical Circuit Breaker		A2
4.8.3.12 EV Smart Charging System Development		A2
4.8.3.13 Front/rear axle for Battery electric bus		A2
4.8.4 Manufacture of rubber tires for vehicles		A2

Activities	Conditions	Incentives
4.8.5 Manufacture of Fuel System Parts including		
4.8.5.1 Fuel Pump	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.5.2 Injection Pump	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.5.3 Injector	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.5.4 Fuel Pipe/Tube		A4
4.8.6 Manufacture of Transmission System Parts including		
4.8.6.1 Sun Gear		A3
4.8.6.2 Ring Gear		A3
4.8.6.3 Shift Gear		A3
4.8.6.4 Transfer Case	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.5 Torque Converter	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.6 Carrier	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.7 Propeller Shaft	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.8 Drive Shaft	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.9 Universal Joint	Projects must have part forming process and assembling process as approved by the Board.	A3
4.8.6.10 Differential	Projects must have part forming process and assembling process as approved by the Board.	A3

Activities	Conditions	Incentives
<p>4.8.8 Manufacture of Safety Parts including</p> <p>4.8.8.1 Air Bag/Safety Belt</p> <p>4.8.8.2 Air Bag Inflator, Gas Generator, Gas Generant</p> <p>4.8.8.3 Parts for Air Bag, e.g. Initiator and Coolant Filter</p> <p>4.8.8.4 Parts for Safety Belt, e.g. Interlock and Retractor</p>		<p>A4</p> <p>A4</p> <p>A3</p> <p>A4</p> <p>A4</p>
<p>4.8.9 Manufacture of Brake System Parts including</p> <p>4.8.9.1 Brake Booster</p> <p>4.8.9.2 Brake Caliper</p> <p>4.8.9.3 Brake Master Cylinder</p> <p>4.8.9.4 Brake Wheel Cylinder</p> <p>4.8.9.5 Wheel Hub</p> <p>4.8.9.6 Brake Pipe/Tube</p> <p>4.8.9.7 Brake Set</p> <p>4.8.9.8 Brake Drum</p>	<p>Projects must have part forming process and assembling process as approved by the Board.</p>	<p>A4</p> <p>A4</p> <p>A4</p> <p>A4</p> <p>A4</p> <p>A4</p> <p>A4</p> <p>A4</p>
<p>4.8.10 Manufacture of Suspension System Parts including</p>	<p>Projects must have part forming process and assembling process as approved by the Board.</p>	

Activities	Conditions	Incentives
4.8.10.1 Shock Absorber		A4
4.8.10.2 Ball Joint		A4
4.8.10.3 Leaf / Coil Spring		A4
4.8.11 Manufacture of Steering System Parts including	Projects must have part forming process and assembling process as approved by the Board.	
4.8.11.1 Power Steering Pump / Motor		A4
4.8.11.2 Rack and Pinion Steering		A4
4.8.12 Manufacture of Cooling System Parts including	Projects must have part forming process and assembling process as approved by the Board.	
4.8.12.1 Water Pump		A4
4.8.13 Manufacture of Exhaust System Parts including	Projects must have part forming process and assembling process as approved by the Board.	
4.8.13.1 Catalytic Convertor		A4
4.8.13.2 Exhaust Catalyst		A4
4.8.13.3 Exhaust Manifold		A4
4.8.14 Manufacture of Air Conditioning System Parts Including	Projects must have part forming process and assembling process as approved by the Board.	
4.8.14.1 Air Compressor		A4
4.8.15 Manufacture of Body Parts Using Ultimate Tensile Strength Steel	Projects must use Ultimate Tensile Strength (UTS) Steel higher than 700 MPa.	A4
4.8.16 Manufacture of Bearing for Vehicles		A4

Activities	Conditions	Incentives
4.8.17 Manufacture of other vehicle parts		B1
<p>4.9 Building or repair of ships</p> <p>4.9.1 Building or repair of ships not less than 500 tons gross</p> <p>4.9.2 Building or repair of ships less than 500 tons gross (only steel or fiber glass ships with installed engine and equipment)</p>	<p>Projects must use obtain ISO 14000 within 2 years from starting date of operation</p>	<p>A2</p> <p>A2</p>
<p>4.10 Manufacture of train or electric train or equipment or parts (only rail system)</p> <p>4.10.1 Manufacture of train, electric train or equipment or parts (only rail systems)</p> <p>4.10.2 Restoration of train, electric train or equipment or parts (only rail systems)</p>	<p>Overhaul and repair using advanced technology</p>	<p>A2</p> <p>A3</p>
<p>4.11 Manufacture or repair of Aircraft, or Aerospace Devices and Equipment</p> <p>4.11.1 Manufacture of Aircraft or Aircraft Parts such as airframe, critical parts appliance equipment and other components</p> <p>4.11.2 Manufacture of Onboard devices and equipment (except disposable and reusable aircraft utilities and supplies) such as seats, life vests, trolley, galley, etc.</p>		<p>A1</p> <p>A3</p>

Activities	Conditions	Incentives
<p>4.11.3 Repair of Aircraft or Aircraft parts.</p> <p>4.11.4 Repair of Onboard Devices and Equipment (except disposable and reusable aircraft utilities and supplies)</p> <p>4.11.5 Manufacture of Aerospace Devices and Equipment such as devices or equipment related to rockets/spacecraft/ space vehicles/propulsion units and auxiliary equipment, etc.</p> <p>4.11.6 Aerospace Operating Systems such as search, detection, navigation, guidance, aeronautical, nautical systems and instruments, etc.</p>	<p>Must be approved by related agencies such as Geo-Informatics and the Space Technology Development Agency (Public Organization).</p> <p>Must be approved by related agencies such as Geo-Informatics and the Space Technology Development Agency (Public Organization).</p>	<p>A2</p> <p>A4</p> <p>A1</p> <p>A1</p>
<p>4.12 Manufacture of motorcycles (except less than 248 cc engine displacement)</p>	<p>1. Project must have forming process of engine parts, as follows: Cylinder Head, Cylinder Block, Crankshaft, Crankcase, Camshaft and Connecting Rod</p> <p>1.1 For manufacturing motorcycles with more than 248 cc engine displacement but less than 500 cc, project must have forming of not less than 4 out of 6 parts.</p> <p>1.2 For manufacturing of motorcycles with more than 500 cc engine displacement, project must have forming of 2 out of 6 parts.</p> <p>2. Project must have structural welding process and spray painting process.</p> <p>3. Investment plan for manufacturing and utilization of parts must be submitted and approved by the Board.</p>	<p>A3 (must follow conditions 1-3)</p> <p>B1 (must follow conditions 2-3)</p>

Activities	Conditions	Incentives
4.13 Manufacture of Fuel Cells		A2
4.14 Fabrication industry or platform repair for petroleum industry 4.14.1 Fabrication industry or platform repair with engineering design 4.14.2 Fabrication industry or platform repair for petroleum industry		A3 A4
4.15 Manufacture of science equipment 4.15.1 Scientific equipment using high technology 4.15.2 Other scientific equipment	Scientific equipment must be able to measure parameter value, process data and self-report the result or automatically measure and control the parameter.	A2 A3
4.17 Manufacture of Plug-In Hybrid Electric Vehicles (PHEV) and Parts	<ol style="list-style-type: none"> 1. Must propose an integrated package consisting of vehicle assembly and key parts production or sourcing project, the import and installation plan of machinery, vehicle assembly plan in the 1st – 3rd year, general parts production and sourcing plan, waste management plan for used batteries and technical training and support plan for local suppliers with not less than 51 percent of Thai shareholders. 2. At least 1 out of the following 4 key parts must be manufactured or used, e.g., Battery, Traction Motor, Battery Management Systems (BMS) or Drive Control Unit (DCU). 3. Manufactured vehicles must comply with UN Regulation Type Approval standard in categories L, M or N. 	A4

Activities	Conditions	Incentives
	<p>4. Vehicle Assembly and key parts production or sourcing of at least one part must commence within three years from the issuance date of the BOI Promotion Certificate. Nonetheless, the machinery importation period shall not be extended, except deem it appropriate.</p> <p>5. Application must be submitted by December 31, 2018.</p> <p>6. Additional incentives</p> <p>6.1 For project which produces more than one key part, one additional year of the corporate income tax exemption shall be received for each additional production of key part annually but the total exemption period must not exceed 6 years.</p> <p>6.2 For an Eco-car project, the investor is allowed to count the production of Plug-In Hybrid Electric Vehicle (PHEV) produced as the actual production of the Eco-car. For the domestic market, the manufactured vehicles must comply with the environmental specifications in the Eco-car announcement.</p>	
4.18 Manufacture of Battery Electric Vehicle (BEV) and parts	1. Must submit an integrated package consisting of vehicle assembly and key parts production or sourcing project, the import and installation plan of machinery, vehicle assembly plan in the 1st - 3rd years, general parts production and sourcing plan, waste management plan for used batteries and technical training, and support plan for local suppliers with not less than 51 percent of Thai shareholders.	A3

Activities	Conditions	Incentives
	<p>2. At least 1 out of the following parts must be manufactured or used, e.g., Batteries, Traction Motors, Battery Management Systems (BMS) or Drive Control Units (DCU).</p> <p>3. Manufactured vehicles must comply with UN Regulations Type Approval standards in categories L, M or N.</p> <p>4. Schedules are as follows:</p> <p>4.1 Within two years from the issuance date of the BOI Promotion Certificate, the import of CBU with the exemption of import duties is allowed for market testing under the board's decision. The machinery importing period will not be extended without a valid reason and reasonable prospects of acceptance of the change.</p> <p>4.2 Within three years from the issuance date of the BOI Promotion Certificate, the assembling of the Battery Electric Vehicles (BEVs) must commence.</p> <p>4.3 Within six years from the issuance date of the BOI Promotion Certificate, the manufacturing of at least one key part must be commenced.</p> <p>5. Application must be submitted by December 31, 2018.</p> <p>6. <u>Additional incentives</u></p> <p>6.1 An additional corporate income tax exemption for three years for project that manufacture or use at least one key part within three years from the issuance date of the BOI Promotion Certificate</p>	

Activities	Conditions	Incentives
	<p>6.2 An additional corporate income tax exemption for two years for project that manufacture or use at least one more keys part in the fourth year from the issuance date of the BOI Promotion Certificate.</p> <p>6.3 An additional corporate income tax exemption of one year for project that manufacture or use at least one more key part in the fifth year from the issuance date of the BOI Promotion Certificate</p> <p>6.4 For project that manufacture or use more than one key part, the corporate income tax exemption will increase one-year per each key part. However, the total corporate income tax exemption period shall not exceed ten years. In case the corporate income tax exemption period exceeds eight years, the project must be engaged in technology transfer by cooperating with educational/research</p>	
<p>4.19 Manufacture of Battery Electric Bus and parts</p>	<ol style="list-style-type: none"> 1. Must submit an integrated package consisting of project vehicle assembly and key parts production or sourcing project, the import and installation plan for machinery, vehicle assembly plan in the 1st – 3rd years, general parts production and sourcing plan, waste management plan for used batteries and technical training and support plan for local suppliers with not less than 51 percent of Thai shareholders. 2. At least 1 out of following parts must be manufactured or used, e.g., Battery, Traction Motor, Battery Management Systems (BMS) or Drive Control Unit (DCU). 	<p>A4</p>

Activities	Conditions	Incentives
	<p>3. Vehicle Assembly and key parts production or sourcing of at least one part must proceed within three years from the issuance date of the BOI Promotion Certificate. In addition, the machinery importation period shall not be extended, unless otherwise deemed necessary.</p> <p>4. Application must be submitted by December 31, 2018.</p> <p>5. <u>Additional incentive</u></p> <ul style="list-style-type: none"> - Projects which produce or utilize more than one essential parts shall be granted one year of CIT exemption per part. However, the total exemption period must not exceed 6 years 	

Remarks: 4.16 has been expired.