Advanced Manufacturing Industries Investment Promotion Division 2

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- 3.21 Manufacture and/or repair of weapons and exercise-facilitating equipment for national defense and part
- 3.22 Manufacture and/or repair of combat facilitating equipment

79 Electrical Appliances and Electronics industry

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- 4.2 Manufacture of electronic products, devices and parts
- 4.3 Manufacture of electrical appliances, devices and parts



For more information regarding new and amended promoted activities, please scan:

Advanced Manufacturing Industries

Investment Promotion Division 2

Section 3 Machinery and Vehicles Industry

	Activities	Conditions	Incentives
Machi	ne and Automation Syster	n Industries	
parts	facture of machinery, equipment and , and repair of in-house fabricated ninery or equipment Manufacture of automation machinery and/or automation equipment with engineering design 3.1.1.1 Manufacture of automation machinery and/or automation equipment with engineering design, including automation system integration and control system configuration	 The product must be a system or machine that is fully automated and can perform at least two tasks at once continuously and collectively. Project must have the following operations: 2.1 Design and development of automation system integration 2.2 Design of the operational control system configuration by the integrated automation system 2.3 Engineering design of machinery, equipment and parts 	Al
	3.1.1.2 Manufacture of automation machinery and/or automation equipment with engineering design, including control system configuration	 Project must have the following operations: Design of the operational control system configuration by the integrated automation system Engineering design of machinery, equipment and parts 	A2
3.1.2	Manufacture of machinery, equipment and parts and/or repair of mould and die	Project must have the forming process of parts that serve in the main function of the manufactured machinery and/or the engineering design.	A3
3.1.3	Assembling of machinery and/or machinery equipment	Project must have assembling process as approved by the Board.	A4
3.1.4	Assembling of robots or automation equipment and/or automation parts	Project must have assembling process as approved by the Board.	A3

Activities	Conditions	Incentives
3.1.5 Manufacture of high-precision machinery, including equipment and parts of the machinery, and machinery repair		
3.1.5.1 Manufacture of high-precision machinery	 Project must have part forming process and/or assembling process as approved by the Board. Product must have one of the following features: 2.1 Product must be machinery that applies technology machinery in the manufacturing of electronics products such as integrated circuit (IC), semiconductor or microelectromechanical systems (MEMS). 2.2 Product must be capable of setting the production tolerance not more than IT5, according to the International Tolerance Grades (IT) 	A2
3.1.5.2 Manufacture of equipment and parts for high precision machinery	 Project must have part forming process and/or assembling process as approved by the Board. Product must have one of the following features: 2.1 Product must be equipment or parts that serve in the main function of the machinery according to the Activity 3.1.5.1 2.2 The main machinery used in the project must be able to produce workpieces with a tolerance value not exceeding IT5, according to the International Tolerance Grades (IT) 	A2
3.1.5.3 Repair of high precision machinery	 Project must repair key parts that directly serve in the main function of high precision machinery. Project must have expenses on salary for repairing personnel of at least 1,500,000 baht per year and it must be new employment, or capital investment (excluding cost of land and working capital) of at least 1 million baht. 	A3 (with no limit on the income tax exempted)
3.2 Manufacture of scientific equipment3.2.1 Manufacture of scientific equipmentusing high technology	Project must manufacture scientific equipment that is able to measure parameter value, process data and self-report the result or automatically measure and control the parameter.	A2
3.2.2 Manufacture of other scientific equipment		A3

Activities		Activities	Conditions	Incentives	
3.3		facture of lenses that are not classified dical devices			
	3.3.1	Manufacture of lenses from the glass melting process within the same project	Manufacture of lenses that are classified as medical devices shall not be promoted.	A3	
	3.3.2	Manufacture of lenses such as camera lenses	Manufacture of lenses that classified as medical devices, sunglass lenses, cosmetic lenses or eyeglasses frame and parts shall not be promoted.	A4	
	3.3.3	Manufacture of sunglasses lenses, cosmetic lenses, eyeglasses frame and parts		В	
Au	Itom	otive Industry			
3.4	Manu	facture of engines, equipment, or parts			
	3.4.1	Manufacture of automobile engines	 In case project has part forming process of not less than 4 out of 5 parts, e.g. cylinder head, cylinder block, crankshaft, camshaft and connecting rod. 	A3	
			 In case project has engine assembling process. 	A4	
	3.4.2	Manufacture of motorcycle engines			
		3.4.2.1 Manufacture of motorcycle engines with more than 248 cc engine displacement	 In case of manufacture of motorcycle engine with more than 248 cc engine displacement but less than 500 cc, the project must have forming process in Thailand of not less than 4 out of 6 parts, e.g. cylinder head, cylinder block, crankcase, crankshaft, camshaft or connecting rod, which are either manufactured by own company or other manufacturers. In case of manufacture of motorcycle engine with more than 500 cc engine displacement, the project must have forming process of not less than 2 out of 6 parts, e.g. cylinder head, cylinder block, crankcase, crankshaft, camshaft or connecting rod, which are either manufactured by own company or other manufacturers. 	A3	
		3.4.2.2 Manufacture of motorcycle engines with less than 248 cc engine displacement	 In case project has engine assembling process. In case project has forming process of the following parts: cylinder head, cylinder block, crankcase, crankshaft, camshaft or connecting rod. 	A4 A3	
			2. In case project has engine assembling process.	A4	

	Activities	Conditions	Incentives	55
3.4.3	Manufacture of engines for machinery	 In case project has forming process of not less than 2 out of 6 parts, e.g. cylinder head, cylinder block, crankcase, crankshaft, camshaft and connecting rod. 	A3	2
		2. In case project has engine assembling process.	A4	
3.4.4	Manufacture of multi-purpose engines or equipment	 In case project has forming process of the following parts: cylinder head, cylinder block, crankcase, crankshaft, camshaft or connecting rod. 	A3	
		2. In case project has engine assembling process.	A4	
3.4.5	Manufacture of equipment or parts			
	for engine system 3.4.5.1 Manufacture of crankshaft	Project must have part forming process as approved by the Board.	A3	
	3.4.5.2 Manufacture of camshaft	Project must have part forming process as approved by the Board.	A3	
	3.4.5.3 Manufacture of gear	Project must have part forming process as approved by the Board.	A3	
	3.4.5.4 Manufacture of turbocharger	 In case of project with part forming process as approved by the Board. 	A3	
		 In case of project with turbocharger assembling process. 	A4	
	3.4.5.5 Manufacture of turbocharger parts, i.e., turbine blade, turbine housing and bearing housing	Project must have part forming process as approved by the Board.	A4	
	3.4.5.6 Manufacture of cylinder head	Project must have part forming process as approved by the Board.	A4	
	3.4.5.7 Manufacture of cylinder block and crankcase	Project must have part forming process as approved by the Board.	A4	
	3.4.5.8 Manufacture of connecting rod	Project must have part forming process as approved by the Board.	A4	
	3.4.5.9 Manufacture of valve	Project must have part forming process as approved by the Board.	A4	
	3.4.5.10 Manufacture of piston	Project must have part forming process as approved by the Board.	A4	
	3.4.5.11 Manufacture of starting motor or parts	Project must have part forming process as approved by the Board.	A4	
	3.4.5.12 Manufacture of alternator or parts	Project must have part forming process as approved by the Board.	A4	

Activities	Conditions	Incentives
3.4.5.13 Manufacture of rocker arm	Project must have part forming process as approved by the Board.	A4
3.4.5.14 Manufacture of waster gate actuator	Project must have part forming process as approved by the Board.	A4
3.5 Manufacture of vehicle parts		
3.5.1 Manufacture of vehicle parts using high technology		
3.5.1.1 Manufacture of substrate for catalytic converter		A2
3.5.1.2 Manufacture of electronic fuel injection system		A2
3.5.1.3 Manufacture of transmission		A2
3.5.1.4 Manufacture of electronic control unit (ECU)		A2
3.5.2 Manufacture of safety parts		
3.5.2.1 Manufacture system or parts for anti-lock brake system (ABS) or electronic brake force distribution (EBD)		A2
3.5.2.2 Manufacture of air bag/ safety belt		A4
3.5.2.3 Manufacture of airbag inflator, gas generator or gas generant		A3
3.5.2.4 Manufacture of parts for air bags, i.e., initiator coolant filter and ignitor		A4
3.5.2.5 Manufacture of parts for safety belt, i.e., interlock, retractor and buckle		A4
3.5.3 Manufacture of electronic devices for controlling or efficiency improving of vehicle system		
3.5.3.1 Manufacture of electronic stability control (ESC)		A2
3.5.3.2 Manufacture of regenerative braking system		A2
3.5.3.3 Manufacture of idling stop system		A2
3.5.3.4 Manufacture of autonomous emergency braking system		A2
3.5.3.5 Manufacture of other electronic device for vehicle	Project must have production process as approved by the Board.	A2

Activities	Conditions	Incentives
3.5.4 Manufacture of equipment for electric vehicle		
3.5.4.1 Manufacture of batterie	 In case of project with the cell production process, the project is eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials. 	Al
	 In case of project using cells in the production of modules or battery packs, the project is eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials. 	A2
	3. In case of the project using modules in the production of battery packs.	A3
3.5.4.2 Manufacture of traction motor		A2
3.5.4.3 Manufacture of electrical air-conditioning systems, i.e., compressor		A2
3.5.4.4 Manufacture of battery management system (BMS)		A2
3.5.4.5 Manufacture of driving or motor control units		A2
3.5.4.6 Manufacture of on-board charger		A2
3.5.4.7 Manufacture of electric vehicle charging devices such as plug, socket, and wallbox		A2
3.5.4.8 Manufacture of DC/DC converter		A2
3.5.4.9 Manufacture of inverter		A2
3.5.4.10 Manufacture of portable electric vehicle charger		A2
3.5.4.11 Manufacture of electrical circuit breaker		A2
3.5.4.12 Manufacture of EV smart charging system		A2
3.5.4.13 Manufacture of front/rear axle for electric bus and truck		A2

	Activities	Conditions	Incentives
3	.5.4.14 Manufacture of high voltage		A2
0	harness		40
	.5.4.15 Manufacture of reduction gear		A2
3	.5.4.16 Manufacture of battery cooling system		A2
3	.5.4.17 Manufacture of regenerative braking system		A2
3.5.5 N	Nanufacture of rubber tires for vehicle		A2
3.5.6 N	Nanufacture of fuel system parts		
3	.5.6.1 Manufacture of fuel pump	Project must have part forming process as approved by the Board.	A3
3	.5.6.2 Manufacture of injection pump	Project must have part forming process as approved by the Board.	A3
3	.5.6.3 Manufacture of injector	Project must have part forming process as approved by the Board.	A3
3	.5.6.4 Manufacture of fuel pipe/tube		A4
	Manufacture of transmission system parts	 In case project has part forming process as approved by the Board. 	A3
		 In case of part assembling process as approved by the Board. 	A4
3.5.8 N	Nanufacture of brake system and parts	Project must have part forming process as approved by the Board.	A4
3.5.9 N	Nanufacture of suspension system parts	Project must have part forming process as approved by the Board.	A4
3.5.10 N	Nanufacture of steering system parts	Project must have part forming process as approved by the Board.	A4
3.5.11 N	Nanufacture of cooling system parts		
3	.5.11.1 Manufacture of water pump	Project must have part forming process as approved by the Board.	A4
3	.5.11.2 Manufacture of heat exchanger	Project must have part forming process as	A4
	such as radiator and air cooler	approved by the Board.	
3.5.12 N	Nanufacture of exhaust system parts	Project must have part forming process as approved by the Board.	A4
	Nanufacture of air conditioning		
	ystem parts	Project must have part forming process as	A4
3	.5.13.1 Manufacture of air compressor	Project must have part forming process as approved by the Board.	A4
3	.5.13.2 Manufacture of condenser/ condensing coil	Project must have part forming process as approved by the Board.	A4
3	.5.13.3 Manufacture of evaporator/ cooling coil	Project must have part forming process as approved by the Board.	A4

Activities	Conditions	Incentives
3.5.14 Manufacture of body parts using ultimate tensile strength steel	Project must use steel with ultimate tensile strength (UTS) higher than 700 MPa.	A4
3.5.15 Manufacture of rolling bearing for vehicle	 In case project has part forming process as approved by the Board. 	A3
	2. In case of assembling of rolling bearing.	A4
3.5.16 Manufacture of motorcycle frame for motorcycle with more than 248 cc engine displacement, electric motorcycle frame and electric bicycle frame	 Project must have part forming process or welding process as approved by the Board. In case of electric bicycle frames, the product must be manufactured from lightweight material such as aluminium alloy, chromiummolybdenum alloy steel, titanium alloy and carbon fiber. 	A4
3.5.17 Manufacture of other vehicle parts	 In case project has part forming process as approved by the Board. 	A4
	2. Other cases	В
3.6 Manufacture of general automobile		В
3.7 Manufacture of motorcycles (except less than 248 cc engine displacement)	 Project must have forming process in Thailand of the following parts: cylinder head, cylinder block, crankcase, crankshaft, camshaft and connecting rod, which are either manufactured by own company or other manufactures. Manufacture of motorcycle with more than 248 cc engine displacement but less than 500 cc must have part forming process of not less than 4 out of 6 parts. Manufacture of motorcycle with more than 500 cc engine displacement must have part forming process of 2 out of 6 parts. 	
	 Project must have structural welding process and spray-painting process, which are either manufactured by own company or other manufacturers. Plan for manufacturing and utilization of parts must be proposed and approved by the Board. Incentives 	
	1. In case project meets conditions 1., 2. and 3.	A3
	2. In case project meets conditions 2. and 3.	В

Activities		Conditions	Incentives
3.8 Manufacture of battery electric vehicles (BEV), Plug-In hybrid electric vehicles (HEV), and BEV platforms	1.	 Plan must be proposed in package covering at least a manufacture project of BEVs and/or BEV platforms; a manufacture project of electric batteries (own project or other manufacturer's project); machinery importation and installation plans; manufacture plans of BEVs and/or BEV platforms in year 1-3; manufacture or procurement plans of other parts; electric charging station or battery swapping station development plans (only for BEV production); used battery management plans; and plans for developing local suppliers of raw materials and parts, with Thai shareholding of not less than 51 percent of its registered capital, in providing technology training and technical assistance. Electric vehicles to be marketed in the country must conform to the following standards and specifications: 2.1 The safety standard of the electrical power transmission system according to UN R100. 2.2 The active safety standard with ABS and ESC at the minimum (UN R13HW/ABS & ESC). 2.3 The standard for protection of occupants in the event of frontal and side collisions (UN R94 & UN R95). 2.4 The pollution standard of EURO 5 and above (UN R83) (only for HEVs and PHEVs). 2.5 Other standards and specifications as stipulated by relevant agencies such as the Thai Industrial Standards Institute and the Department of Land Transport. For BEV platforms, irrelevant product standards are waived such as the standard for occupant protection in the event of frontal and side collisions (UN R94 & UN R95). The platform must consist of an energy storage system, charging module, and a front & rear axle module. 	

Activities	Conditions	Incentives	61
	 The manufacture of all approved categories of electric vehicles and/or BEV platforms, and electric batteries from using cells in the production of modules or battery packs must be started within 3 years from the issuance date of the investment promotion certificate. At least one of the three key parts (traction motor, battery management system (BMS), and driving or motor control unit) must be additionally manufactured within 3 years after the starting production date of electric vehicles and/or BEV platforms. 		2
	6. For HEVs and PHEVs, at least 2 additional parts according to activity category 3.5.4 (manufacture of parts and equipment for electric vehicle) must be additionally manufactured within 3 years after the starting date of electric vehicle manufacture.		
	 No extension of machinery importation schedule shall be allowed, except for justifiable reasons. In the case of the combined investment capital of not less than 5,000 million baht, excluding land costs and working capital, of the project package including the BEVs and/or BEV platforms manufacture, and key parts (electric battery, traction motor, battery management system (BMS), and driving or motor control unit) of the project and the suppliers, the following incentives shall be granted: 		
	• for PHEVs	A4	
	 for BEVs and BEV Platforms. The projects may apply for additional incentives for competitiveness enhancement measure under the categories of research and development of technology and innovation, and/ or advanced technology training according to the specified criteria 	A2	

Activities	Conditions	Incentives
	9. In the case of an investment capital less than 5,000 million baht, excluding land costs and working capital, of the project package including the production of BEV vehicles and/ or BEV platforms and the production of key parts (electric battery, traction motor, battery management system (BMS), and driving or motor control unit), of the project and the suppliers, the following incentives shall be granted:	
	• for PHEVs	A4
	• for BEVs and BEV platforms	A4
	 <u>Additional incentives:</u> 9.1 If key parts of BEVs and/or BEV platforms, except electric batteries are manufactured in addition to the basic criteria within 3 years after the starting date of manufacturing electric vehicles and/or BEV platforms, an additional 1-year corporate income tax exemption shall be granted for each part. 9.2 If, in any year within 3 years as from the start of the manufacture, the actual production of BEVs and/or BEV platforms is more than 10,000 cars (units) per year, an additional 1-year corporate income tax exemption shall be granted. 9.3 The approved projects may apply for additional incentives to enhance competitiveness in the category of research and development of technology and innovation and/or advanced technology training under the prescribed criteria. 10. No additional incentives shall be granted on the merit of industrial area development. 	
	can include all types of electric vehicles manufactured under the project as the actual production quantity of international standard	
	eco-cars. The vehicles produced for the domestic market must have environmental qualifications following the international	
	standard for eco-car manufacture.	

Activities		Conditions	Incentives
3.9 Manufacture of electric battery motorcycles	1.	Plan must be proposed in package covering the electric battery motorcycle manufacture project; the manufacture of electric battery (own project or other manufacturer's project); machinery importation and installation plan, electric motorcycle manufacture plans for year 1 to year 3; manufacture or procurement plan of other parts; EV charging station or battery swapping station development plan; used battery management plan; and local supplier development plan for raw materials or parts, with Thai shareholding of not less than 51 percent of its registered capital in the technological training and technical assistance. Must manufacture battery electric motorcycles and electric battery within 3 years as from the issuance of promotion certificate.	Α4
	3.	Electric motorcycle distributed domestically must conform to the following standards and specifications: 3.1 Safety standard of electrical transmission system according to UN R136 3.2 Tire standard according to TISI 2720 or UN R75 3.3 ABS or CBS standard according to UN R78 3.4 Other standards and specifications stipulated by relevant agencies such as the Thai Industrial Standards Institute and the Department of Land Transport No extension of machinery importation schedule shall be allowed, except for justifiable reasons.	

Activities		Conditions	Incentives
Activities	5.	 Additional incentives 5.1 If electric battery manufacture starts from using cells in the production of modules or battery packs within 3 years as from the promotion certificate issuance, an additional 1-year corporate income tax exemption shall be granted for each part. 5.2 If any additional key parts, i.e., traction motor, battery management system (BMS), and driving or motor control unit, are produced within 3 years as from the promotion certificate issuance, an additional 1-year of corporate income tax exemption shall be granted for each part. 5.3 The approved projects may apply for additional incentives to enhance 	Incentives
3.10 Manufacture of battery electric tricycles	6.		A4
and battery electric tricycle platforms		manufacture project of battery electric tricycles and/or battery electric tricycle platforms; a manufacture project of electric batteries (own project or of other manufacturer's project); machinery importation and installation plans; charging station or battery swapping networking plans (only for battery electric tricycle production); manufacture plans of battery electric tricycle and/or battery electric tricycle platforms for year 1-3; manufacture or procurement plans of other parts; used battery management plans; and plans for developing local suppliers of raw materials and parts, with Thai shareholding of not less than 51 percent of its registered capital, in providing technology	

03 | Automotive Industry

Activities		Conditions	Incentives
	2.	The platforms must consist of an energy storage	
		system, charging module, and front and rear axle module.	
	3.		
	0.	electric tricycle platforms, and electric	
		batteries must be manufactured within 3 years	
		, from the issuance date of the investment	
		promotion certificate.	
	4.	The battery electric tricycles and the battery	
		electric tricycle platforms to be marketed in	
		the country must conform to the following	
		standards and specifications:	
		4.1 The safety standard of the electrical	
		power transmission according to UN R136.	
		4.2 Other standards and specifications as	
		stipulated by relevant agencies such as	
		the Thai Industrial Standards Institute and the Department of Land Transport.	
	5.	No extension of the machinery importation	
	0.	schedule shall be allowed, except for	
		justifiable reasons.	
	6.	Additional incentives:	
		6.1 If the manufacture of electric batteries	
		from using cells in the production of	
		modules or battery packs is started	
		within 3 years from the issuance date of	
		the investment promotion certificate, an	
		additional 1- year corporate income tax	
		exemption shall be granted.	
		 6.2 If any additional key parts, i.e., traction motor, battery management system (BMS), 	
		and driving or motor control unit are	
		manufactured within 3 years from the	
		, issuance date of the promotion certificate, an	
		additional corporate income tax exemption	
		for 1 year per part shall be granted.	
		6.3 The approved projects may apply	
		for additional incentives to enhance	
		competitiveness under the category	
		of research and development of	
		technology and innovation, and/or	
		advanced technology training under	
	-	the prescribed criteria.	
	7.	No additional incentives shall be granted on the merit of industrial area development.	

 3.11 Manufacture of battery electric buses and trucks and battery electric buses and truck platforms 1. Plan must be proposed in package covering a manufacture project of battery electric buses or battery electric trucks and/or battery electric bus or truck platforms; a manufacture project of electric bus or truck platforms; a manufacture plans of battery electric buses and trucks and/ or battery electric bus or truck platforms in year 1-3; production or procurement plans of other parts; charging station or battery swapping station development plans; (or the production of battery electric buses or trucks only): used battery management plans; and plans for developing local supplies of raw materials and parts, with Thai shareholding of not less than 51 percent of its registered capital, in providing technology training and technical assistance. 2. The platforms must consist of an energy storage system, charging module, and front and rear axle module. 3. The battery electric buses ard trucks, and/ or platform of battery electric buses are trucks, and electic batteries must be manufactured within 3 years from the issuance date of the investment promotion certificate. 4. Battery electric buses and trucks and battery electric bus or truck platforms to be marketed in the country must contom to the following standards and specifications: 4.1 The safely standard of the electrical power transmission according to UN R 100.
4.2 Other standards and specifications as stipulated by relevant agencies such as the Thai Industrial Standards Institute and the Department of Land Transport.

Activities	Conditions	Incentives	67
	 Additional incentives: If the manufacture of electric batteries from the using cells in the production of modules or battery packs is started within 3 years from the issuance date of the investment promotion certificate, an additional 1- year corporate income tax exemption shall be granted. If any additional key parts, i.e., traction motor, battery management system (BMS), and driving or motor control unit are manufactured within 3 years from the issuance date of the promotion certificate, an additional corporate income tax exemption for 1 year per part shall be granted. The approved projects may apply for additional incentives to enhance competitiveness under the category of research and development of technology and innovation, and/or advanced technology training under the prescribed criteria. No additional incentives shall be granted on the merit of industrial area development. 		2
3.12 Manufacture of electric bicycles (E-BIKE)	 Plan must be proposed in package covering a manufacture project of electric bicycles, a manufacture project of electric batteries	Α4	

Activities	Conditions	Incentives
	 No extension of the machinery importation schedule shall be allowed except for justifiable reasons. Additional incentives: Additional incentives: If the manufacture of traction motors is started within 3 years from the issuance date of the investment promotion certificate, an additional 1-year corporate income tax exemption shall be granted. If the manufacture of electric bicycle frames with lightweight materials is started within 3 years from the issuance date of the investment promotion certificate, an additional 1-year corporate income tax exemption shall be granted. The approved projects may apply for additional incentives to enhance competitiveness under the category of research and development of technology and innovation according to the specified criteria. No additional incentives shall be granted on the merit of industrial area development. 	
 3.13 Manufacture of fuel cell electric vehicles (FCEV) and equipment for fuel cell system 3.13.1 Manufacture of fuel cell electric vehicles (FCEV) 	In case of manufacture of fuel cell electric vehicle (FCEV), plans must be proposed in package covering a manufacture project of fuel cell electric vehicle (FCEV) and a manufacture project of fuel cell (own project or of other manufacturer's project); machinery importation and installation plans; manufacture plans in year 1-3; manufacture or procurement plans of other parts; ; hydrogen fueling station development plans; used battery management plans; and local supplier development plan for raw materials and parts, with Thai national shareholding of not less than 51 percent of its registered capital in the technological training and technical assistance.	A2
3.13.2 Manufacture of equipment for fuel cell system		A2

Activities	Conditions	Incentives
3.14 Manufacture of fuel cells or parts		A2
3.15 Building or repair of ships		
3.15.1 Building or repair of ships not less than 500 tons gross	Project must be obtained ISO 14000 within 2 years as from full operation deadline.	A2
3.15.2 Building or repair of ships less than 500 tons gross (only steel or fiber glass ships with installed engine and equipment)	Project must be obtained ISO 14000 within 2 years as from full operation deadline.	A2
3.16 Manufacture and/or repair of rolling stocks, parts, or equipment for rail system		
3.16.1 Manufacture of trains and/or rolling stocks such as passenger cars and cargo cars		
3.16.1.1 Manufacture of trains and/or rolling stocks such as passenger cars and cargo cars, that requires engineering design	 Project must have engineering design process. Project must comply with international standard or related government agencies' specifications. 	Al
3.16.1.2 Manufacture of trains and/or rolling stocks such as passenger cars and cargo cars	Project must comply with international standard or related government agencies' specifications.	A2
3.16.2 Repair of trains or parts, or rail system equipment.	Project must have overhaul or repair activities using high level of technology.	A3 (with no limit on the income tax exempted)

70	Activities	Conditions	Incentives
03 Automotive Industry	3.16.3 Manufacture of rail system parts or equipment	 Project must have production process as approved by the Board. Project must manufacture rail system parts or equipment, i.e., Main structure Rolling stocks Cab and equipment Bogie Break system and/or major parts Couplers Air condition and ventilation system and/or major parts Air compressor and distributor and/or major parts Door system and/or major parts Lighting system and/or major parts Communication and observation systems and/or major parts Controlling and signaling systems and/or major parts Electric power and distribution system Track and parts 	Α2
	3.17 Charging station and battery swapping station for electric vehicles3.17.1 Electrical vehicle charging station	 Project must submit a procurement plan for equipment and parts. Project must submit an EV smart charging system development plan or a plan to connect the charging system to an EV charging network operator platform or a central platform for the charging network management. Project must comply with the laws or safety standards of relevant authorities such as the Ministry of Energy, Metropolitan Electricity Authority, Provincial Electricity Authority, Ministry of Industry. The following incentives shall be granted: For projects with no fewer than 40 chargers of which at least 25% are quick-charging units (DC type). Other cases 	A3 A4

Activities	Conditions	Incentives
3.17.2 Electrical vehicle battery swapping station	 Project must submit a procurement plan for equipment and parts. Project must submit an EV smart charging system development plan or a plan to connect the charging system to an EV charging network operator platform or a central platform for the charging network management. Project must comply with the laws or safety standards of relevant authorities such as the Ministry of Energy, Metropolitan Electricity Authority, Provincial Electricity Authority, Ministry of Industry. Battery shall not eligible for import duty exemption (Section 28). 	A3
Space and aerospace Industry		
3.18 Space and aerospace industry		
3.18.1 Manufacture or repair of aircrafts, or aerospace devices and equipment		
3.18.1.1 Manufacture of aircrafts or aircraft parts	Project must manufacture aircraft or aircraft parts such as airframe, critical parts, appliance, equipment or other components.	Al
3.18.1.2 Manufacture of onboard devices or equipment	Project must manufacture onboard devices or equipment such as seats, life vests, trolley or galley. Manufacture of disposable and reusable aircraft utilities or supplies shall not be promoted.	A3
3.18.1.3 Repair of aircraft or aircraft parts	The project is eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials.	A2
3.18.1.4 Repair of onboard devices or	Repair of disposable and reusable aircraft utilities	A4

Activities	Conditions	Incentives
3.18.1.5Manufacture of ground support equipment and ground support service	 Manufacture of bus or passenger transport vehicles, airport trolley, aviation belt or air transport aviation freight pallet shall not be promoted. 	
	2. In case project has part forming process and/or engineering design process.	A3
	 In case project has assembling process as approved by the Board. 	A4
3.18.2 Manufacture, design and development of space equipment and provision of space services		
3.18.2.1 Manufacture of space equipment	 Project must manufacture space products and equipment such as spacecraft, satellites, and propulsion systems for guided rockets and space vehicles. The project is eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials. 	Al
3.18.2.2 Manufacture of mechanical parts and/or electronic parts for satellites or space objects of various form		A2
3.18.2.3 Design and development of system or software related to satellites and ground stations	Project must have design and development of system or software such as system or software for satellite platform, payload system, searching system, space debris mitigation system or space navigation system.	Al
3.18.2.4 Space launching services or manufacture of launch mission control systems		Al
3.18.2.5 Aeropace support activities	Project must conduct aerospace support activities such as testing laboratory for satellites and other space objects and/or standard certification for parts.	A2

Activities	Conditions	Incentives
Defense Industry		
3.19 Manufacture and/or repair of vehicles and weapon systems for national defense	 Project must manufacture vehicles and weapon systems for national defense, i.e., tank, armored car, combat vehicle, combat-facilitating vehicle. Product must be certified with approved test or standard by the Ministry of Defense or the National Institute of Defense Technology. In the case of repair work, it must involve extensive maintenance or requires advanced technology, and must adhere to the standards approved by agencies under the Ministry of Defense or the National Institute of Defense Technology. 	Α2
.20 Manufacture and/or repair of unmanned systems for national defense and parts used in the manufacture and/or repair 3.20.1 Manufacture and/or repair of unmanned ground system (UGS) and parts	 Project must manufacture unmanned ground system (UGS) such as unmanned ground vehicle (UGV), robot for military operations or small robot. Project must manufacture parts for unmanned system such as main structure, mechanical arm, handle, communication system, camera system, computer system, electrical system, or battery. In the case of repair work, it must involve extensive maintenance or requires advanced technology, and must adhere to the standards approved by agencies under the Ministry of Defense or the National Institute of Defense Technology. Product must be certified with approved test or standard by the Ministry of Defense or the 	Al

Activities		Conditions	Incentives
3.20.2 Manufacture and/or repair of	1.	Project must manufacture unmanned	A1
unmanned maritime system (UMS)		maritime system (UMS) such as unmanned	
and parts		surface vehicle (USV) or unmanned	
		underwater vehicle (UUV).	
	2.	Project must manufacture parts for unmanned	
		system such as main structure, mechanical	
		arm, handle, communication system, camera	
		system, computer system, electrical system,	
		or battery.	
	3.	In the case of repair work, it must involve	
		extensive maintenance or requires advanced	
		technology, and must adhere to the	
		standards approved by agencies under the	
		Ministry of Defense or the National Institute	
	4	of Defense Technology.	
	4.	Product must be certified with approved test or standard by the Ministry of Defense or the	
		National Institute of Defense Technology.	
	1.	Project must manufacture unmanned	A1
		aircraft system (UAS) such as fixed wing	
and parts		unmanned vehicle, rotor unmanned vehicle	
		and combined fixed wing/rotor unmanned	
3.20.3 Manufacture and/or repair of unmanned aircraft system (UAS) and parts	2.	vehicle. Project must manufacture parts for unmanned	
	2.	system such as main structure, mechanical	
		arm, handle, communication system, camera	
		system, computer system, electrical system,	
		or battery.	
	3.	, In the case of repair work, it must involve	
		' extensive maintenance or requires advanced	
		technology, and must adhere to the	
		standards approved by agencies under the	
		Ministry of Defense or the National Institute	
		of Defense Technology.	
	4.	Product must be certified with approved test	
		or standard by the Ministry of Defense or the	

Activities	Conditions	Incentives	75
3.21 Manufacture and/or repair of weapons and exercise-facilitating equipment for national defense and part			2
3.21.1 Manufacture and/or repair of weapons			
3.21.1.1 Manufacture of firearm and parts and/or repair of firearm	 Product must be certified with approved test or standard by the Ministry of Defense or the National Institute of Defense Technology. In the case of repair work, it must involve extensive maintenance or requires advanced technology, and must adhere to the standards approved by agencies under the Ministry of Defense or the National Institute of Defense Technology. Project must receive permission in accordance with the Private Weapon Manufacturing 	A2	
	 4. The applicant must have a Thai shareholding of at least 51 percent of the registered capital, except for an activity established by the National Institute of Defense Technology or jointly with other parties incorporated as a juristic entity which is exempted under the Defense Technology Act B.E. 2562 (2019). 		
3.21.1.2 Manufacture of ammunition and parts	 Product must be certified with approved test or standard by the Ministry of Defense or the National Institute of Defense Technology. Project must receive permission in accordance with the Private Weapon Manufacturing Factory Act B.E. 2550 (A.D. 2007). 	A2	
	3. The applicant must have a Thai shareholding of at least 51 percent of the registered capital, except for an activity established by the National Institute of Defense Technology or jointly with other parties incorporated as a juristic entity which is exempted under the Defense Technology Act B.E. 2562 (2019).		

Activities		Conditions	Incentives
3.21.1.3 Manufacture of rocket system	1.	Project must manufacture rocket system such	A2
and parts and/or repair of		as firing vehicle or rocket leading item.	
rocket system	2.	Product must be certified with approved test	
		or standard by the Ministry of Defense or the	
		National Institute of Defense Technology.	
	3.	In the case of repair work, it must involve	
		extensive maintenance or requires advanced	
		technology, and must adhere to the standards	
		approved by agencies under the Ministry of	
		Defense or the National Institute of Defense	
		Technology.	
	4.	Project must receive permission in accordance	
		with the Private Weapon Manufacturing	
		Factory Act B.E. 2550 (A.D. 2007).	
	5.	The applicant must have a Thai shareholding	
		of at least 51 percent of the registered capital,	
		except for an activity established by the	
		National Institute of Defense Technology or	
		jointly with other parties incorporated as a	
		juristic entity which is exempted under the	
		Defense Technology Act B.E. 2562 (2019).	
3.21.2 Manufacture of simulation and	1.	Project must manufacture of simulation and	A1
virtual training system and parts and/		virtual training system such as virtual training	
or repair of simulation and virtual		facilitating systems for combat vehicles,	
training system		personal weapon and unit weapon training	
		field systems, Joint Theater Level Simulation	
		systems (JTLS).	
	2.	Product must be certified with approved test	
		or standard by the Ministry of Defense or the	
		National Institute of Defense Technology.	
	3.	In the case of repair work, it must involve	
		extensive maintenance or requires advanced	
		technology, and must adhere to the standards	
		approved by agencies under the Ministry of	
		Defense or the National Institute of Defense	
		Technology.	
	4.	Project must have system design or software	
		development activity.	

Activities		Conditions	Incentives
3.22 Manufacture and/or repair of combat	1.	Project must manufacture combat facilitating	A2
facilitating equipment		equipment such as bullet-proof and flak-	
		proof vests, armours or bullet-proof and	
		flak-proof shields.	
	2.	Product must be certified with approved test	
		or standard by the Ministry of Defense or the	
		National Institute of Defense Technology.	
	3.	In the case of repair work, it must involve	
		extensive maintenance or requires advanced	
		technology, and must adhere to the standards	
		approved by agencies under the Ministry of	
		Defense or the National Institute of Defense	
		Technology.	

Section 4 Electrical Appliances and Electronics industry

Activities	Conditions	Incentives		
Electrical Appliances and Electronics industry				
4.1 Electronic design i.e. microelectronics, optoelectronics or embedded system	 Project must have expenses on salaries for electronics design personnel of at least 1,500,000 baht per year and it must be new employment, or must have capital investment of at least 1,000,000 baht (excluding cost of land, working capital and vehicles) To exercise the benefits of corporate income tax exemption from the sale of products or services which are directly related to the promoted business, one of the following evidences must be provided: Patents for products or services which are directly related to the promoted business. Letters from the National Science and Technology Development Agency or relevant institutions for each product or service, which certify that the products or services are electronic designs of the project. 	Α1		

				Activities	Conditions	Incentives
•	4.2	Manu and p		of electronic products, devices		
		4.2.1	Manufc	acture of wafer	Project must have production process as approved by the Board.	A1+ (13 year with no limit on the income tax exempted)
		4.2.2		acture or test of semiconductors egrated circuits (IC)		
			4.2.2.1	Manufacture or test of semiconductors and integrated circuits (IC), which is a large- scale investment	 Project must manufacture or test of semiconductors and integrated circuit (IC) and products obtained in between the manufacturing process or downstream products such as wafer grinding, sawed dice wafer testing, IC, testing and IC Module. For the manufacturing and testing of integrated circuits (IC), the cost of refurbishment of existing machines shall be regarded as an investment and will be taken into account in the calculation of corporate income tat exemption cap. The original cost of existing machines shall not be regarded as an investment. The investment capital in machinery (including cost of installation and test run) used in the manufacturing or testing process must not be less than 1,500 million baht. 	
			4.2.2.2	Manufacture or test of semiconductors and integrated circuits (IC)	 Project must manufacture or test or semiconductors and integrated circuit (IC) and products obtained in between the manufacturing process or downstream products such as wafer grinding, sawed dice wafer testing, IC testing and IC Module For the manufacturing and testing of integrated circuits (IC), the cost of refurbishment of existing machines shall be regarded as an investment and will be taken into account in the calculation of corporate income tat exemption cap. The original cost of existing machines shall not be regarded as an investment. 	

		Activities	Conditions	Incentives
4.2.3	comp	acture of electronic passive onents such as resistors, tors and inductors		
	4.2.3.1	Manufacture of electronic passive components in the form of surface-mount devices, which is a large-scale investment	The investment capital in machinery (including cost of installation and test run) used in the manufacturing process must not be less than 1,500 million baht.	A2
	4.2.3.2	Manufacture of electronic passive components in the form of surface-mount devices		A3
	4.2.3.3	Manufacture of electronic passive components in the form of through-hole devices		A4
4.2.4	materio	acture of circuit board, raw als, or essential materials for acture of circuit board		
	4.2.4.1	Manufacture of High-Density Interconnect (HDI) printed circuit board	Project must have investments in machinery and manufacturing processes as approved by the Board.	A2
	4.2.4.2	Large-scale investment in the manufacture of flexible printed circuit boards and multilayer printed circuit boards	 Capital investment in machinery utilized in the manufacturing process (including costs of installation and test run) must be at least 1,500 million baht. Project must have circuit trace manufacturing process. 	A2
	4.2.4.3	Manufacture of flexible printed circuit boards, multilayer printed circuit boards	Project must have circuit trace manufacturing process.	A3
	4.2.4.4	Manufacture of printed circuit boards	Project must have circuit trace manufacturing process.	В
	4.2.4.5	Provision of services in key processes to support the manufacture of printed circuit boards	 Project must have at least one of the following processes: Lamination Drilling Plating Routing 	
			 In the case that the project has a capital investment in machinery in the manufacturing (including costs of installation and test run) of at least 1,000 million baht. 	A4
			3. Other cases.	В

Activities	Conditions	Incentives
4.2.4.6 Manufacture of print circuit board raw materia Copper Clad Laminati (CCL), Flexible Copp Clad Laminate (FCCL), a Prepregs	ls: investment in machinery (including costs of installation and test run) of at least 1,500 er million baht.	A2 A3
4.2.4.7 Manufacture of raw mater or essential materials printed circuit boards, such dry film, transfer film, back board, etc.	or as	В
4.2.5 Manufacture of printed circ board assemblies (PCBA) a downstream products from PC in the same project.	nd	
4.2.5.1 Manufacture of printed circ board assemblies (PCBA) downstream products fro PCBA in the same proje which is a large-sco investment	 project must use the surface mount technology. m 2. The investment capital in machinery (including cost of installation and test run) used in the 	A3
4.2.5.2 Manufacture of printed circ board assemblies (PCBA) downstream products fro PCBA in the same proje which uses the surface mo technology to the who production line	or project must use the surface mount technology. m ct, int	A4
4.2.5.3 Manufacture of printed circ board assemblies (PCBA) downstream products fro PCBA in the same project.	or	В
4.2.6 Manufacture of printed electronics		
4.2.6.1 Manufacture of print electronics using more that type of printing material		A2
4.2.6.2 Manufacture of print electronics using 1 type printing material		A4

	Activities	Conditions	Incentives
	facture of parts, data storage and ory storage		
4.2.7.1	Manufacture of solid-state drives	 The whole assembly line of PCBA in the same project must use the surface mount technology. The cost of refurbishment of existing machines shall be regarded as an investment and will be taken into account in the calculation of corporate income tax exemption cap. The original cost of existing machines shall not be regarded as an investment. 	A2
4.2.7.2	Manufacture of advanced technology hard disk drives and/or critical parts	 The areal density of hard disk drives must not be less than 2,000 gigabits per square inch. The production of top covers or base plates or peripherals shall not be promoted. The cost of refurbishment of existing machines shall be regarded as an investment and will be taken into account in the calculation of corporate income tax exemption cap. The original cost of existing machines shall not be regarded as an investment. 	A2
4.2.7.3	Manufacture of hard disk drives and/or critical parts	 Project must manufacture hard disk drives and/or critical parts such as spindle motors, suspensions, head gimbal assemblies and voice coil motors. The production of top covers or base plates or peripherals shall not be promoted. The cost of refurbishment of existing machines shall be regarded as an investment and will be taken into account in the calculation of corporate income tax exemption cap. The original cost of existing machines shall not be regarded as an investment. 	A3
4.2.7.4	Manufacture of other parts of hard disk drive such as top covers, base plates, pins and filters		A4
4.2.7.5	5 Manufacture of external hard disk drives and other memory storage such as flash drives	The whole assembly line of PCBA in the same project must use the surface mount technology.	A4

Activiti	es	Conditions	Incentives
batter	energy storage acture of high-density ries with the cell tion process	 Project must manufacture high-density batteries with the properties as approved by the Board as followings: Specific energy density not less than 150 Wh/g Charging cycle not less than 500 cycles The project will be eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials. 	Al
batterie cells in	acture of high-density as in the case of using in the production of s or battery packs	 Project must manufacture high-density batteries with the properties as approved by the Board as followings: Specific energy density not less than 150 Wh/g Charging cycle not less than 500 cycles The project is eligible for a 90 percent reduction in import duties on non-locally produced raw materials and essential materials for five years under Section 30. The benefit will be approved for one year at a time, starting from the date of the first import of raw materials. 	A2
batterie	acture of high-density as in the case of using s in the production of packs	 Project must manufacture high-density batteries with the properties as approved by the Board as followings: 1) Specific energy density not less than 150 Wh/g 2) Charging cycle not less than 500 cycles 	A3
4.2.8.4 Manufac	cture of supercapacitors	 Project must manufacture supercapacitors with the properties as approved by the Board as followings: 1) Specific power density not less than 10,000 Wh/g 2) Charging cycle not less than 10,000 cycles 	A2
4.2.8.5 Manufad	cture of other batteries	The production of lead-acid batteries shall not be promoted.	В

		Activities	Conditions	Incentives
4.2.9	Manufo parts	acture of flat panel displays and		
	4.2.9.1	Manufacture of flat panel displays or critical parts	 Project must manufacture flat panel displays or critical parts such as backlight panel, diffuser, LCD film, electrode and polarizing film. Project must have production process as approved by the Board. 	A3
	4.2.9.2	Manufacture of other parts of flat panel displays		В
4.2.10		acture of electro-magnetic ts and parts		A4
4.2.11		acture of parts, peripheral s and signal cables		
	4.2.11.1	Manufacture of optical fibers	Project must have production process as approved by the Board.	A2
	4.2.11.2	Manufacture of parts for optical fiber device, optical device and electro-optical device	Project must have production process as approved by the Board.	A3
	4.2.11.3	Manufacture of parts, peripheral devices and signal cables with the continual manufacturing process from metal forming or the fabrication of electrically conductive materials in the same project		A4
	4.2.11.4	Manufacture of other parts, peripheral devices and signal cable		В
4.2.12		acture of parts or equipment for owered products		
	4.2.12.1	Manufacture of solar cells and/ or raw materials for solar cell	Project must have production process and product must have energy yield as approved by the Board.	A2
	4.2.12.2	Manufacture of solar panels from the solar cells produced within the same project	Project must have production process and product must have energy yield as approved by the Board.	A2

Activities	Conditions	Incentives
4.2.13 Manufacture of smart electrical appliances and smart electronics		
4.2.13.1 Manufacture of smart electrical appliances and smart electronics, which is a large- scale investment	 Project must manufacture smart electrical appliances with the following properties: Have electronic components that can detect and receive the data as the principal element. Can connect to other devices or equipment or network through wireless system. Have the operating or processing system embedded into such equipment or devices. The production of electrical plugs, illumination devices and light bulbs shall not be promoted. The investment capital in machinery (including cost of installation and test run) must not be less than 1,500 million baht. The whole assembly line of PCBA must use the surface mount technology in the same project. 	Α2
4.2.13.2 Manufacture of smart electrical appliances and smart electronics	 Project must manufacture smart electrical appliances with the following properties: Have electronic components that can detect and receive the data as the principal element. Can connect to other devices or equipment or network through wireless system. Have the operating or processing system embedded into such equipment or devices. The production of electrical plugs, illumination devices and light bulbs shall not be promoted. <u>Additional incentives</u> In case the whole assembly line of PCBA in the same project uses the surface mount technology, 1-year of corporate income tax exemption will be additionally granted. 	A3

Activities	Conditions	Incentives
4.2.14 Manufacture of audio-visual products and parts		
4.2.14.1 Manufacture of audio-visual products and parts, which are produced from the PCBA manufactured within the same project	The whole assembly line of PCBA in the same project must use the surface mount technology.	A3
4.2.14.2 Manufacture of audio-visual products and parts		A4
4.2.15 Manufacture of office electronics and parts		
4.2.15.1 Manufacture of office electronics and parts, which are produced from the PCBA manufactured within the same project	The whole assembly line of PCBA in the same project must use the surface mount technology.	A3
4.2.15.2 Manufacture of office electronics and parts		A4
4.2.16 Manufacture of telecommunication devices and wireless-system devices		
4.2.16.1 Manufacture of optical modules, optical devices, electro-optical modules, or electro-optical devices	 Project must have one of the following production processes: 1. Assembling of PCBA using the surface mount technology to the whole line in the same project. 2. Assembling of optical chip 	A3
4.2.16.2 Manufacture of network device for office and home use such as router, access point, network switch, repeater, extender and gateway, which are produced from the PCBA manufactured within the same project; or which has part forming process	Project must meet one of the following production processes:1. Assembling of PCBA using the surface mount technology to the whole line in the same project.2. Forming of part	A3
4.2.16.3 Manufacture of network device for office and home use such as router, access point, network		A4
switch, repeater, extender and gateway		

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Activities	Conditions	Incentives
4.2.17 Manufacture of electronic measuring instruments and parts		
4.2.17.1 Manufacture of electronic measuring instrument and parts, which are produced from the PCBA manufactured within the same project	 Project must have one of the following production processes: 1. Assembling of PCBA using the surface mount technology to the whole line in the same project 2. Forming of part 	A3
4.2.17.2 Manufacture of electronic measuring instruments and parts		A4
4.2.18 Manufacture of power supply, converter, inverter or charger		
4.2.18.1 Manufacture of power supply, converter, inverter or charger which has operation control software	 Project must have following production processes: 1. Designing of circuit layout for the circuit board (PCB Design) 2. Loading of control software within the same project 	A3
4.2.18.2 Manufacture of power supply, converter, inverter or charger	Project must have production process as approved by the Board	A4
4.2.19 Manufacture of products using microtechnology	 The project must meet one of the following conditions: 1. The products must be manufactured using microfabrication technology such as Micro Electro Mechanical Systems (MEMS), microelectronics, and microsensors; or microtechnology such as micro coils, micro magnets, micro components, micro rotors, micro ceramics, brushless motors 2. The main machinery used in the project must be able to produce workpieces with a tolerance value not exceeding IT5, according to the International Tolerance Grades (IT) 	A2
4.2.20 Manufacture of other electronics products and parts		В
1 1		

Activities			Activities	Conditions	Incentives
4.3	Manufacture of electrical appliances, devices and parts				
	4.3.1	Manufc	acture of electrical appliances	 Project must manufacture air conditioners, refrigerators, freezers, washing and drying machines Product must meet Thailand's energy efficiency standards and have the high energy efficiency label (label no. 5) from the Ministry of Energy or have other equivalent energy efficiency. 	A4
	4.3.2	Manufacture of parts, connecting devices and electrical wires			
		4.3.2.1	Manufacture of parts, peripheral devices and electrical wires with the continual manufacturing process from metal forming or the fabrication of electrically conductive materials in the same project		A4
		4.3.2.2	Manufacture of other parts, peripheral devices and electrical wires		В
	4.3.3	Manufo	acture of transformers	Project must have coil winding process.	A4
	4.3.4 Manufacture of circuit breakers		acture of circuit breakers		
		4.3.4.1	Manufacture of circuit breakers with the part forming process	Project must have part forming process.	A4
		4.3.4.2	Manufacture of circuit breakers		В
	4.3.5	Manufacture of compressors and/or motors for electrical appliance		Project must have coil winding process or fabrication of stators or rotors in the project.	A4
	4.3.6		acture of other electrical aces, devices and part		В