Section 4: Metal Products, Machinery and Transport Equipment

Activities	Conditions	Incentives
 4.1 Manufacture of metal provincluding metal parts 4.1.1 Products from malloy powder 4.1.2 Metal products of parts 	tal or Project must have sintering process.	A 3 A 3

		Activities	Conditions	Incentives
	4.1.3	Other metal products including other metal parts	 Continuous forming process from pressing, pulling casting or forging of non-ferrous metal within the same project. Forming process, i.e. machining and stamping. 	A 4 B 1
4.2	surface	e treatment or anodized e treatment (except coating oring treatment for decoration se)	For anodized surface treatment, project must have the following process, e.g. anodizing, etching and engraving.	B 1
4.3	Heat Tr	reatment	Cyanide is prohibited in the process of heat treatment.	A 4
4.4	Manufacture of multi-purpose engines and equipment		 Project must have forming process of main engine parts, e.g. cylinder head, crank case, crankshaft, camshaft, connecting rod, piston and flywheel. Assembling of multipurpose engine or equipment 	A 4 B 1
			or equipment.	
4.5		acture of machinery, nent and parts Automation machinery and/ or automation equipment with engineering design	Projects must design control system using an embedded system.	A 2
	4.5.2	Machinery, equipment and parts and/or repair of mould and die	Projects must have part forming process and/or with engineering design.	A 3
	4.5.3	Assembling of machinery and machinery equipment	Projects must have assembling process as approved by the Board.	A 4
	4.5.4	Assembling of Robots or Automation Equipment and/or Automation Parts		A 3
4.6	Manufa	acture of general automobile	Not eligible for merit-based incentives.	B 1
4.7	Manufacture of automobile engines		 Project must have part forming, not less than 4 out of 5 parts, as follows: Cylinder Head, Cylinder Block, Crankshaft, Camshaft and Connecting Rod. Assembling of engine. 	A 3 A 4

General List of Activities Eligible for Investment Promotion

		Activ	ities	Conditions	Incentives
4.8	Manufa 4.8.1	Manufa parts us includin	vehicle parts cture of vehicle sing high technology g: Substrate for Catalytic Converter		A 2
			Electronic Fuel Injection System		
		4.8.1.3	Automotive Transmission		
		4.8.1.4	Electronic Control Unit (ECU)		
	4.8.2	safety a parts	cture of automobile nd energy-saving Anti-Lock Brake System (ABS) or Electronic Brake Force Distribution (EBD)		A 2
		4.8.2.2	Electronic Stability Control (ESC)		
		4.8.2.3	Regenerative Braking System		
		4.8.2.4	Idling Stop System		
		4.8.2.5	Autonomous Emergency Braking System		
	4.8.3	Hybrid, and Plu Vehicles	cture of parts for Electric Vehicle (EV) g-in Hybrid Electric s (PHEV) Battery		A 2
		4.8.3.2	Traction Motor		
		4.8.3.3	Air-condition system		
	4.8.4	Manufa for vehic	cture of rubber tires cles		A 2

	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.	A 3
	4.8.5.2 Injection Pump		
	4.8.5.3 Injector		
	4.8.5.4 Fuel Pipe/Tube		A 4
4.8.6	Manufacture of Transmission System Parts including 4.8.6.1 Sun Gear		A 3
	4.8.6.2 Ring Gear		
	4.8.6.3 Shift Gear		
	4.8.6.4 Transfer Case	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.5 Torque Converter	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.6 Carrier	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.7 Propeller Shaft	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.8 Driver Shaft	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.9 Universal Join	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.10 Differential	Projects must have part forming process and assembling process as approved by the Board.	
	4.8.6.11 Transmission Case		

	Activ	ities	Conditions	Incentives
4.8.7	System	cture of Engine Parts including Turbocharger	Projects must have part forming process and assembling process as approved by the Board.	A 3
	4.8.7.2	Turbocharger Parts including Turbine Blade, Turbine Housing and Bearing Housing		A 4
	4.8.7.3	Cylinder Head		A 4
	4.8.7.4	Cylinder Block		A 4
	4.8.7.5	Crankshaft		A 4
	4.8.7.6	Camshaft		A 4
	4.8.7.7	Connecting Rod		A 4
	4.8.7.8	Valve		A 4
	4.8.7.9	Piston		A 4
	4.8.7.10) Gear		A 4
4.8.8	Parts in	cture of Safety cluding Air Bags/Safety Belts		A 4
	4.8.8.2	Air Bags Inflator, Gas Generators, Gas Generant		A 3
	4.8.8.3	Parts for Air Bags, i.e. Initiators and Coolant Filters		A 4
	4.8.8.4	Parts for Safety Belts, i.e. Interlock and Retractor		A 4

	Activities	Conditions	Incentives
4.8.9	Manufacture of Brake System Parts including 4.8.9.1 Brake Booster		A 4
	4.8.9.2 Brake Caliper		A 4
	4.8.9.3 Brake Master Cylinder		A 4
	4.8.9.4 Brake Wheel Cylinder		A 4
	4.8.9.5 Wheel Hub		A 4
	4.8.9.6 Brake Pipe Tube		A 4
	4.8.9.7 Brake Set		A 4
4.8.10	Manufacture of Suspension System Parts including 4.8.10.1 Shock Absorber	Projects must have part forming process and assembling process as approved by the Board.	A 4
	4.8.10.2 Ball Joint	Projects must have part forming process and assembling process as approved by the Board.	A 4
4.8.11	Manufacture of Steering System Parts including 4.8.11.1 Power Steering Pump	Projects must have part forming process and assembling process as approved by the Board.	A 4
	4.8.11.2 Rack and Pinion Steering		
4.8.12	Manufacture of Cooling System Parts including 4.8.12.1 Water Pump	Projects must have part forming process and assembling process as approved by the Board.	A 4
4.8.13	Manufacture of Exhaust System Parts including 4.8.13.1 Catalytic Convertor	Projects must have part forming process and assembling process as approved by the Board.	A 4
	4.8.13.2 Exhaust Catalyst		

General List of Activities Eligible for Investment Promotion

		Activities	Conditions	Incentives
	4.8.14	Manufacture of Air Conditioning System Parts including 4.8.14.1 Air Compressor	Projects must have part forming process and assembling process as approved by the Board.	A 4
	4.8.15	Manufacture of Ultimate Tensile Strength Steel	Projects must use Ultimate Tensile Strength (UTS) Steel higher than 700 MPa.	A 4
	4.8.16	Manufacture of Ball Bearing for Vehicles	Projects must manufacture steel ball.	A 4
	4.8.17	Manufacture of other vehicle parts		B 1
4.9	Building 4.9.1	g or repair of ships Building or repair of ships not less than 500 tons gross	Projects must obtain ISO 14000 within 2 years from starting date of operation.	A 2
	4.9.2	Building or repair of ships less than 500 tons gross (only steel or fiber glass ships with installed engine and equipment)		A 2
4.10	0 Manufacture of trains or electric trains or equipment or parts (only rail system)			A 2
4.11	Aerosp	acture or repair of Aircraft, or ace Devices and Equipment Manufacture of Aircraft or Aircraft Parts such as airframe, critical parts (e.g. Engine and parts, Propeller), appliance (e.g. Flight recorder, Radar),		A 1
	4.11.2	equipment and other components Manufacture of Onboard devices and equipment (except disposable and		A 3
		reusable aircraft utilities and supplies) such as seats, life vests, trolley, galley, etc.		
	4.11.3	Repair of Aircraft or Aircraft parts.		A2

Activities	Conditions	Incentives
4.11.4 Repair of Onboard Devices and Equipment (except disposable and reusable aircraft utilities and supplies)		A 4
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.	Must be approved by related agencies such as Geo-Informatics and the Space Technology Development Agency (Public Organization).	A 1
4.11.6 Aerospace Operating Systems such as search, detection, navigation, guidance, aeronautical, nautical systems and instruments, etc.	Must be approved by related agencies such as Geo-Informatics and the Space Technology Development Agency (Public Organization).	A 1
4.12 Manufacture of motorcycles (except less than 248 cc engine displacement)	 Project must have forming process of engine parts, as follows: Cylinder Head, Cylinder Block, Crankshaft, Crankcase, Camshaft and Connecting Rod 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. For manufacturing of motorcycles with more than 500 cc engine displacement, project must have forming of 2 out of 6 parts. Project must have structural welding process and spray painting process. Investment plan for manufacturing and utilization of parts must be submitted and approved by the Board of Investment. 	A3 (must follow conditions 1-3) B1 (must follow conditions 2-3)
4.13 Manufacture of Fuel Cells		A 2
 4.14 Fabrication industry or platform repair for petroleum industry 4.14.1 Fabrication industry or platform repair with engineering design 		A 3

Activities	Conditions	Incentives
4.14.2 Fabrication industry or platform repair for petroleum industry		A 4
4.15 Manufacture of science equipment 4.15.1 Scientific equipment using high technology	Scientific equipment must be able to measure parameter value, process data and self-report the result or automatically measure and control the parameter.	A 2
4.15.2 Other scientific equipment		A 3