Section 4: Metal Products, Machinery and Transport Equipment

Activities	Conditions	Incentives
4.1 Manufacture of metal products including metal parts4.1.1 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 i.e. machining and stamping within the same project	A3
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 	A4 B1
4.2 Surface treatment or anodized surface treatment (except coating or coloring treatment for decoration purpose)	Stamping For anodized surface treatment, project must have the following process, e.g. anodizing, etching and engraving	B1
4.3 Heat Treatment	Cyanide is prohibited in the process of heat treatment	A4
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	A4 B1
4.5 Manufacture of machinery, equipment and parts 4.5.1 Automation machinery and/or automation equipment with engineering design	Projects must design control system using an embedded system.	A2
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	A3
4.5.3 Assembling of Machinery and machinery equipment	Projects must have assembling process as approved by the Board.	A4
4.6 Manufacture of general automobile	Not eligible for merit-based incentives	B1

Activities	Conditions	Incentives
4.7 Manufacture of automobile engines	1. Project must have part forming, not less than 4 out of 5 parts, as follows: Cylinder Head, Cylinder Block, Crankshaft, Camshaft and Connecting Rod	A3
	2. Assembling of engine	A4
4.8 Manufacture of vehicle parts 4.8.1 Manufacture of vehicle parts using high technology including: 4.8.1.1 Substrate for Catalytic Converter 4.8.1.2 Electronic Fuel Injection System 4.8.1.3 Automotive Transmission 4.8.1.4 Electronic Control Unit (ECU)		A2
4.8.2 Manufacture of automobile parts for safety parts and energy-saving parts 4.8.2.1 Anti-Lock Brake System (ABS) or Electronic Brake Force Distribution (EBD) 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		A2
4.8.3 Manufacture of parts for Hybrid, Electric Vehicle (EV) and Plug-in Hybrid Electric Vehicles (PHEV) 4.8.3.1 Battery 4.8.3.2 Traction Motor 4.8.3.3 Air-condition system		A2
4.8.4 Manufacture of rubber tires for vehicles		A2
4.8.5 Manufacture of other vehicle parts		B1

Activities	Conditions	Incentives
4.9 Building or repair of ships	Projects must obtain ISO 14000 within 2	
4.9.1 Building or repair of ships	years from start of operation date	A2
not less than 500 tons		
gross		
4.9.2 Building or repair of ships		A2
less than 500 tons gross		
(only steel or fiber glass		
ships with installed engine		
and equipment) 4.10 Manufacture of trains or electric		A2
trains or equipment or parts		A2
(only rail system)		
4.11 Manufacture or repair of		
aircraft, including aircraft parts		
and equipment or onboard		
equipment		
4.11.1 airframe, airframe parts,		A1
major aircraft		
appliances, e.g. engine,		
aircraft parts, propeller,		
and avionics		
4.11.2 other aircraft parts, and		A3
onboard devices and		
equipment (except		
disposable and reusable		
aircraft utilities and		
supplies)		A2
4.11.3 repair of aircraft, parts and equipment		AZ
	1 Decided must have forming process of	A3
4.12 Manufacture of motorcycles (except less than 248 cc engine	1. Project must have forming process of engine parts, as follows:	(must
displacement)	Cylinder Head, Cylinder Block,	follow
dispracement)	Crankshaft, Camshaft and Connecting	conditions
	Rod	1-3)
	1.1 For manufacturing motorcycles	1 3)
	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.	
	1.2 For manufacturing of motorcycles	
	with more than 500 cc engine	
	displacement, project must have	
	forming of 2 out of 6 parts.	
	2. Project must have structural welding	B1
	process and spray painting process.	(must
	3. Investment plan for manufacturing	follow
	and utilization of parts must be	conditions
	submitted and approved by the Board of Investment	2-3)
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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		A3
platform repair with		
engineering design		
4.14.2 Fabrication industry or		A4
platform repair for		
petroleum industry		
4.15 Manufacture of science		
equipment		
4.15.1 Scientific equipment	The scientific equipment must be able to	A2
using high technology	measure parameter value, process data	
	and self-report the result or automatically	
	measure and control the parameter	
4.15.2 Other scientific		A3
equipment		