

TARGETED SECTORS (Annexure G)

HIGH VALUE-ADDED INDUSTRIES AND ACTIVITIES

A. GENERAL ACTIVITIES AND PRODUCTS

I. Manufacturing of Oil Palm Products and their Derivatives

1. Oleochemicals or oleochemicals derivatives or preparations
2. Margarine, vanaspati, shortening or other manufactured fat products
3. Fatty acid distillate derivatives
4. Cocoa butter replacers, cocoa butter substitutes, cocoa butter equivalent, palm mid fraction or special olein
5. Crude palm kernel oil and palm kernel cake/expeller
6. Palm-based nutraceuticals, constituents of palm oil/palm kernel oil
7. Processed products from:
 - a) palm fatty acid distillate/palm kernel fatty acid distillate
 - b) palm kernel cake/expeller
 - c) palm oil mill effluent
8. Products from palm biomass
9. Refining of palm oil or palm kernel oil

II. Manufacture of Chemicals and Petrochemicals

1. Chemical derivatives from organic or inorganic sources
2. Fine chemicals
3. Basic manufacture of pesticides
4. Petrochemical products
5. Epoxy encapsulation moulding compounds
6. Cable compounds (excluding PVC cable compound)
7. Titanium dioxide pigment
8. Barium sulphate pigment
9. Iron dioxide pigment
10. Metallic pigment
11. Recycling of chemicals
12. Anti-tack solutions
13. Inkjet inks
14. Cleaning preparations, cosmetics or toilet preparations
15. Wax products
16. Specialised paints or coatings

III. Manufacture of Pharmaceuticals and Related Products

1. Pharmaceutical goods
2. Clinical diagnostic reagents
3. Gelatine or gelatine products
4. Intravenous, dialysis or irrigating solutions
5. Vaccines
6. Medicaments

IV. Manufacture of Professional, Medical Scientific and Measuring Devices/Parts

1. Medical, surgical, dental or veterinary devices/equipment
2. Gauges or measuring apparatus
3. Surveying, hydrographic, navigational, meteorological, hydrological or geophysical instruments
4. Testing equipment
5. Clocks or watches
6. Stainless steel cannulae or tubes for needles

B. MANUFACTURING RELATED SERVICES

1. Research and development (R&D)
2. Design and prototyping
3. Integrated logistic services
4. Integrated market support services
5. Integrated centralized utility facilities
6. Total chemical management system
7. Environmental management
 - a) energy conservation/efficiency services
 - b) energy generations activities, using renewable energy sources (biomass, hydropower, solar power)
 - c) storage, treatment and disposal of toxic and hazardous waste
 - d) waste recycling activities
 - Agricultural waste or agricultural by-products
 - Recycling of toxic and non-toxic wastes

C. HIGH TECHNOLOGY ACTIVITIES

I. Advanced Electronics

1. Design, development and manufacture of:
 - a) computer or peripheral
 - b) microprocessor application
2. Development and production of communication equipment
3. Design and production of integrated circuits (ICs)
4. Development and production of cathode ray tubes and advance displays
5. Design, development and manufacturer or printer heads, head gimbals/head carriages, headstacks, magnetic heads, voice coil motors and actuators
6. Development and production of advanced connectors
7. Development and manufacturing of density interconnect printed circuit boards (PCB) excluding rigid single-sided PCB
8. Design, development and manufacture of printer mechanism
9. Development and production of surface mount components
10. Design, development and manufacture of electro-magnetic interference (EMI) shielding products
11. Design, development and manufacture of contra rotator washing machines
12. Development and production of digital audio/video products

II. Equipment / Instrumentation

1. Design, development and manufacture of:
 - a) medical equipment
 - b) medical implant or devices
 - c) scientific equipment
 - d) cyclonic separation equipment
2. Development and production of high pressure water cutting equipment
3. Design, development and manufacture of air flow equipment and related products
4. Development and production of high voltage busbars, auto transfer switches and dry type distribution transformers

III. Biotechnology

1. Development, testing and production of:
 - a) pharmaceuticals
 - b) fine chemicals
 - c) food or food ingredients
 - d) feed or feed supplements
 - e) biodiagnostics
 - f) horticultural products
2. Development and production of:
 - a) cell cultures
 - b) biopolymers
 - c) biomaterials
3. Development and production of biotechnology processes for waste treatment

IV. Automation and Flexible Manufacturing Systems

1. Development and production of:
 - a) computer process control systems/equipment
 - b) process instrumentation
 - c) robotic equipment
 - d) computer numerical control (CNC) machine tools

V. Electro-Optics and Non-Linear Optics

1. Development and production of:
 - a) optical lenses
 - b) laser application equipment
 - c) fibre-optic communication equipment
2. Design, development and production of cameras including lens units, lens barrel units and view finder units

VI. Advanced materials

1. Development and production of:
 - a) polymers or biopolymers
 - b) superconductors
 - c) fine ceramics or advanced ceramics
 - d) high strength composites
 - e) pigments
2. Nano particles and their formulations thereof

VII. Optoelectronics

1. Development and production of:
 - a) optoelectronics systems components
 - b) optical systems components
 - c) photo-couplers
 - d) semiconductors lasers

VIII. Software Engineering

1. Development and production of:
 - a) neural networks
 - b) pattern recognition systems
 - c) machine vision
 - d) fuzzy logic systems

IX. Alternative Energy Sources

1. Development and production of:
 - a) fuel cells
 - b) polymer batteries
 - c) solar cells
 - d) renewable energy
 - e) floating energy power system

X. Aerospace

1. Design or development and production or assembly of:
 - a) aircraft
 - b) aircraft equipment, components or accessories or parts of aircraft
2. Modification and/or conversion of aircraft
3. Refurbishment or re-manufacture of aircraft equipment, components or accessories or parts of aircraft

XII. Engineering Support industries / Sectors

1. Design or development and manufacture of:
 - a) trim and form dies
 - b) semiconductors cavity/encapsulation moulds
 - c) suspension tooling for hard disk drive parts
 - d) progressive tooling for lead frames
 - e) fibre optic connection tooling
 - f) moulds, tools and dies for automotive industry
2. Design, development and manufacture of advanced tooling and equipment for the production of precision components/parts for industrial applications
3. Development and production of precision machined and die cast parts using advanced manufacturing systems
4. Design and development including prototyping