

Annex F19.
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Catalogue of Major Industries, Products and Technologies Encouraged
for Development in China

Annex to OFC Application Form

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CATALOGUE OF MAJOR INDUSTRIES, PRODUCTS AND TECHNOLOGIES ENCOURAGED FOR DEVELOPMENT IN CHINA

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1. Agriculture

- Improvement of fine strains of animals and plants and major pest control technologies
- Detoxinated germchit
- Soil-free cultivation of vegetables, flowers and plants
- High-yield and highly effective modular cultivation
- Development and popularization of advanced farming techniques
- Storage, anti-staling, processing and comprehensive utilization of farming produce
- Comprehensive recovery of medium- and low-yield farming lands
- Development of waste lands, mountains and shoals suitable for farming
- Production bases of grains, cotton, oil, sugar for commercial distribution
- Dry farming, water-saving farming and green farming; natural rubber
- Grass and range construction
- Breeding of famous, fine and special aquatic products
- Dairy industry
- Biological pesticides
- Pollution-free agricultural chemicals that are highly effective with low toxin-level
- New types of agricultural sheets
- New types of veterinarian vaccines and chemical medicines
- Transplantation of ox and goat embryos



News

- Significant News
- Spokesperson's Remarks
- Press Conference
- Economic and Commercial Offices

Policies

- Announcement
- Policy Interpretation
- Gazette

Statistics

- Brief Statistics
- Foreign Investment
- Foreign Trade Cooperation
- Regional Trade Statistics
- Trade in Services

Services

- Investment Project Information Database
- Supply & Demand

- Technological renovation of fishing vessels

- Feed additives and integrated utilization

2. Forestry

- Selection and breeding of fine forestry strains and genetic improvement

- Reproduction, breeding and storage of seeds for commercial forests and fine strains of flowers and plants

- Forestry disaster control

- Three-dimensional forestation in ecologically vulnerable areas

- Fast-growing high-yield forests

- Shelter forest projects

- Recovery of forest resources

- Desertification control

- Wood pulp paper-making with bases for the production of raw materials

- Deep processing and serialized products from timbers, planted forests, small-diameter timbers and forestry side-line derivatives

- Bamboo engineering materials and plant fiber engineering materials

- Deep processing of forestry chemicals

- Forest biological active matters

- New materials for desertification control, water conservancy and soil improvement

3. Water Resources

- Flood control projects for major rivers and lakes

- Trans-basin water diversion projects

- Water source engineering in areas in short of such sources

- Human and animal drinking water and water supply improvement projects in arid regions

- Safety construction in flood storage and water retention areas

- Maintenance and construction of ocean coastal dykes

- Dredging of water and lake reservoirs

- Consolidation of reservoirs and dykes in danger

- Comprehensive water control projects

- Technology and facilities for soil and water conservation

- Development and utilization of slightly salty water, poor quality water and sea water desalination

- Protection and development of water energy resources
- Earthworks-engineering materials for water control project
- Equipment, techniques and methods for highly effective water distribution and water saving irrigation
- Pumps with high effectiveness, abrasion resistance, low delivery head and large flow
- Automatic water level monitoring and forecast and automated water control dispatching system
- CAD software for water control projects
- Instruments and equipment for hydrological data collection

4. Meteorology

- Technologies and equipment for automated meteorological observatories
- Special meteorological monitoring and analysis equipment
- Doppler radar technologies and equipment

5. Coal

- Prospecting of mine geology and geophysics
- Large and medium-scale and highly effective openpit mines
- Large and medium-scale and highly effective coal dressing
- Control of gas, coal dust, mine water and underground fire
- Coal for industrial use
- Coal slurry
- Coal gasification and liquefaction
- Prospecting, development and utilization of coalbed gas
- Development and utilization of low calorie fuels and coal mine derivatives
- Coal transportation pipes

6. Power Industry

- Hydropower generation
- Large thermal power stations near coal mines
- Combined production of heat and electricity
- Solar energy, geothermal energy, marine energy, garbage, biological mass-energy power generation and largescale wind power generation
- Combined gas-burning circulation electricity generation
- Clean coal-burning power generation

- Long-distance, ultra-high voltage electricity transmission and transformation

- Renovation and construction of power grids

7. Nuclear Energy

- Pressurized water reactor nuclear power stations, with capacity at million KW

- Low-temperature nuclear heat reactors, fast breeder reactors, fusion reactors

- Advanced uranium mine excavation and management

- High-performance nuclear fuel components

- Fuel shortage post treatment

- Nuclear analysis, nuclear monitoring instruments and devices

- Isotope and radiation applications

8. Oil and Natural Gas

- Oil and natural gas prospecting

- Oil and natural gas exploitation

- Transport of crude oil through pipes

- Transport of natural gas through pipes

- Liquefied natural gas

- Oil reserves

- Comprehensive utilization of oil gas and associated resources

9. Railways

- Railway trunk line network

- Speed-increase of existing railway lines

- High-speed railway systems

- 25-ton axle load heavy duty freight

- Technological guarantee systems for safe running of railway lines

- Heavy-duty fine-quality steel rail and new types of rail bearings

- Marshaling station automation, loading/unloading mechanization and freight yard equipment

- Railway passenger and cargo transport equipment

- Railway passenger and cargo transport information system

- Railway containers transportation

10. Roads

- State artery highway network
- Smart road transportation system
- High-speed road passenger transport
- New materials for road engineering
- Designing and manufacturing of new types of road machinery and equipment
- Road containers transportation

11. Water Transport

- Coastal key ports
- Inland trunk waterway and berths
- Standardization, serialization and modernization of shipping
- Loading/unloading automation at major ports;
- Electronic data exchange systems for ocean transportation
- Water traffic control systems
- Designing and manufacturing of new types of machinery and equipment for ports
- Water containers transportation
- Multimodal containers transport

12. Air Transport

- Civilian airports
- High-performance airport safety inspection equipment
- Air transport control systems

13. Posts and Telecommunications

- Key technologies and equipment for stratosphere communications
- Digital synchronization series' optical fiber communications systems and equipment, at 622 Mb/s or faster
- Digital synchronization series' microwave communications systems and equipment, at 155 Mb/s or faster
- Digital mobile communications systems and equipment (such as GSM, CDMA, DCS 1800)
- ISDN systems and equipment
- New technologies and equipment that support communications networks
- Satellite communications systems and ground station equipment
- Broadcasting satellite and earth station equipment

- Satellite mobile telecom systems
- Wire and wireless subscriber cut-in network system equipment
- ATM wide bandwidth photoelectric transmission system equipment
- Smart networks and their applications equipment
- Digital colony communications system equipment
- Automatic handling systems for postal letters, parcels and etc.

14. Steel and Iron

- Highly effective ore dressing and comprehensive utilization of mineral resources
- Direct reduction
- Bead sintering and pellet sintering
- Briquette coking and stamped coking
- Dry quenching coke
- High wind-temperature long-life hot-air furnace
- Blast furnace oxygen-enriched coal powder injection
- Comprehensive technologies for highly effective, long-life blast furnace
- Ultra-high-power electric furnace and comprehensive energy-saving technologies
- Spray slag furnace-protection technologies for converters
- Highly effective continuous casting
- Continuous casting billet hot loading and hot feeding
- Molten reduction
- Thin slab, thin strip plate and other near-final continuous casting and continuous forging
- Comprehensive metallurgy automation
- Controlled forging and controlled cooling
- Slat control
- Surface coating
- Low-alloy steel and micro-alloy steel
- Converter steelmaking, at 50 tons or more
- Stainless steel smelting
- Cold-rolling silicon steel sheet
- Hot- and cold-rolling stainless steel sheet

-Oil steel pipes

-Processing and treatment of scrap steel

-Extraction of alumina vanadine, hard clay and chamotte production

-Metallurgical environmental protection and comprehensive utilization of metallurgical wastes

15. Non-Ferrous Metals

-Exploitation of deep and difficult-to-reach mineral deposits

-Non-ferrous metal composite materials and new-style alloy materials

-Production of alumina with diaspore bauxite

-Non-ferrous metal strengthened smelting and hydro-smelting

-Thin non-crystal alloy belt

-Ultracritical extraction

-Highly effective and energy-saving dressing and electrochemical control flotation

-Large-scale prebaked cell alumina

-High speed casting of alumina and alufer

-Monocrystalline silicon and polycrystalline silicon of more than 8 inches

-Highly effective dressing agentia

-Materials of high-performance, high precision hard metal, tin compound, tellurium compound and porcelain

-High-performance magnetic materials

-Ultra slight powder materials, electronic paddle and products

-New style brake materials

-Comprehensive utilization of polymetal paragenous minerals

-Development and comprehensive utilization of tombarthite, rare metals and dissipated metal

-Comprehensive utilization of salt lake resources

-Development and utilization of difficult processing metals with new roast technology, technology of hot-press preliminary heat treatment in oxidizing-hydrofining and bacterial oxidize-hydrofining

-Comprehensive recycling of gold-containing flume and gold ore difficult to process

16. Chemical Industry

-Scientific fertilizer application (fertilizer application after testing the soils; new types of chemical fertilizers; various special fertilizers)

-Large-scale synthetic ammonia and urea projects

- Large and medium-scale high concentration potassium and phosphorus fertilizers and compound fertilizers
- Compound fertilizers containing crop needed rare elements
- Pressurized coal slurry gasification
- New types of high-performance catalysts
- Potassium chloride projects, with annual output at 200,000 tons or larger; potassium sulfate projects, with annual output at 100,000 tons or more
- Modified calcium-magnesium-phosphorus compound fertilizers
- Granulated phosphamidon produced by pipe reactors and ternary compound fertilizers
- Coating urea
- Slurry-method phosphamidon projects, with annual output at 30,000 tons or more; ardealite-made sulfuric acid co-production cement
- Sulfuric tertiary fertilizers
- Rare earth compound fertilizers
- Ultra-pure pentasulphuricdiphosphate
- Advanced wet-style phosphate acid refinery
- Special wear-resistant polyester
- Low-toxin rogue alumen sodium
- 1,000-ton grade sodium cyanide
- Gaseous phase method white carbon projects, with annual output at 5,000 tons
- Large and medium-sized chemical mines
- New chemical products such as organic silicon monomer and organoflourine
- New fine chemical products
- Large scale coal chemicals
- Ionic membrane for caustic soda
- Titanium white project, chlorinating method
- High-performance meridian tyres
- Frame materials for high-performance meridian tyres
- Treatment and comprehensive utilization of solid wastes, waste water and waste gases

17. Petrochemical Industry

- Uniserial scale refinery of 5 million tons or more
- Deep processing of crude oil that suits the economy of scale

-Ethylene project at 600,000 tons or larger and large-scale post- processing

-Corvic

-Engineering plastics and new types of plastic alloys

-Supporting materials for synthetic materials: Bisphenol A, styrene butadiene latex, pyridine, 4,4' diphenyl methane vulcabond, methylbenzene vulcabond

-Synthetic rubber and its applications

-Vinyl cyanide project, with uniserial capacity at 10,000 tons or more

-PTA project, with uniserial capacity at 350,000 tons or more

-Nylon 6 and nylon 66 new products

-New products of organic chemical raw materials

-Comprehensive utilization of refinery exhausts and chemical sideline products

-Control and comprehensive utilization of solid waste, waste water and waste gases

18. Building Materials

-Dry style manufacturing of cement with daily output of chamotte at 4,000 tons or more

-New types of wall-body materials, decoration materials, and water-proof and heat-insulation materials

-10,000-ton-grade glass fiber direct melting process

-Fine-quality plastic compound doors, windows, pipes, and wall- and floor-covering materials

-Deep processing of plate glass

-High-grade sanitary wares and hardware components

-Ultra-thin modifying processing non-metal minerals and products

19. Pharmaceuticals

-Medicines listed by the State as basic medicines

-Export-oriented products that are highly competitive in the international markets

-Bioengineering medicines

-Radioactive medicines

-New types of anti-tumor medicines (including those anti-hepatitis ones) and new types of cardio-vascular drugs

-Diagnostic preparations for AIDS and radioactive and immunological diseases

-New type drugs used for local diseases

-New types of analgesic-antipyretic drugs

-New types of medicinal preparations, auxiliary materials and medicinal preparations made in accordance with GMP

- Special medicinal intermediates that are in short supply and new types of antibiotics
- Series of new types of biochemical medicines (including biochemical diagnostic preparations)
- New types of medicinal packaging materials
- New types of medicines and medical instruments
- New type sanitary and dressing materials
- Contraceptive medicines and devices
- Selection technologies and modules for new types of medicines
- Amino acid new bacterium strains
- Feed-grade biotin
- Vergimycin and tylosin
- Penicillin salt purification
- Fermentation and automatic temperature-control systems
- Polipeptide synthesization and purification for largescale use
- Large-scale medicinal nucleic acid synthesization and purification
- High-yield genetic engineering germs
- Natural drugs
- R/D of new type Chinese medicines

20. Machinery

- Precise form technologies and equipment
- Numerical control machines with more than three couple axles, numerical control systems and servo devices
- Advanced computer software and hardware technologies and equipment for development of machinery products
- Advanced testing and inspection technologies and equipment for machinery products
- High-speed, ultra-hard precision cutters and precision, automatic measurement tools and instruments
- New types of sensors
- Sedan bearings, railway vehicle bearings, precision bearings and high- speed bearings
- Mixed-flow and through-flow hydropower equipment with reel diameter of 8.5 meters or larger, key supporting auxiliary machines
- Large scale through-flow and pump storage pumps and key supporting auxiliary machines
- Supercritical thermal power generation sets
- Large-scale air-cooled generation sets of 600,000 KW or larger

- Combustion and steam combined circulation equipment of 100,000 KW or larger
- Large-scale wind power generation sets
- Nuclear power generation sets and key supporting auxiliary machines
- Ultra-high voltage AC/DC power transmission and transformation equipment, at 50,000 volts or higher
- Large volume electricity flow capacity testing and sudden transforming breakdown testing equipment
- New types of insulation materials
- Key manufacturing technologies and equipment for chemical fertilizers and ethylene projects with annual output at 450,000 tons or more
- Scattered control systems of key technological equipment
- Automatic on-line testing technology and systems
- New types of electric and electronic technologies and devices
- Precision and ultra-precision processing technologies and equipment
- Laser processing technologies and equipment
- Large-scale precision instruments
- New types of hydraulic, sealed and pneumatic parts and components
- Electronic low-voltage appliances
- High-strength deformed fasteners
- Resin dust casting equipment, with hourly output at 20 tons or more
- Designing, manufacturing technologies and equipment for advanced moulds
- Large-scale vacuum electronic beam welding technologies and equipment
- Controllable atmosphere and vacuum heating treatment technologies and equipment
- Manufacturing of new and high-tech safety and environmental testing instruments
- Urban garbage treatment technologies and equipment
- Large-scale waste water treatment equipment
- Smoke desulfurization and denitration equipment
- Sea water desalination technologies and equipment
- Industrial robots
- Underground rail-less excavation, loading and transport equipment, with annual handling capacity at 5 million tons or more
- Complete sets of equipment at 20 million tons or larger for open-pit mines
- Tunnel excavator

- Underground railway excavation equipment
- Large-scale cold and hot continuous forging (2 meters or more) process and control technologies and equipment
- Mechanical three-dimensional garage, at 30,000 cubic meters per hour or faster
- Natural gas collection and flowing equipment
- Key equipment for flexible board printing
- Mechanical equipment for agricultural operation of appropriate scale
- Equipment for deep processing of agricultural and animal husbandry products and comprehensive resource utilization
- Equipment for improvement of agricultural environment and green farming
- Farming harvesters and farming implements (for cotton, rice, corn, beans and green feed)
- Vacuum refinery and casting technologies and equipment
- Parts, components and materials for new types of instruments
- Large-scale engineering machinery and equipment
- Advanced combustion engines and key parts and components

21. Electronic Information

- Large-scale IC with bandwidth at 0.8 micron or less
- New types of electronic parts and components (including chips) and power electronics parts and components
- New types of surface attaching parts and components
- Photoelectric components, sensitive components and sensors
- Development of special materials for semiconductors and photoelectrons
- Large and medium-sized computers
- High-performance microcomputers
- Work stations and servers
- Software development
- CAD, CAT, CAM, CAE and other computer application systems
- Special electronic equipment, instruments, tools and moulds
- Digital cross-connection equipment
- Large capacity compact disk and floppy disk memories and accessories
- Components for new types of displays (LCD and flat panel display)
- New types of printing devices (laser printers)

- Multimedia data communications system equipment
- Single mode fiber
- Routers and other networking equipment
- Digital audio-video broadcasting systems and products
- High definition laser compact disks (using MPEG-II standard, such as DVD)
- HDTV
- Digital video recording and playing systems
- Digital color television sets
- Large-screen color TV projectors
- VCD drivers, laser heads and special chips
- Facsimile machines that use ordinary paper
- New types of encryption devices
- Multimedia terminals
- Wide bandwidth digital program-controlled switching boards (ATM)
- High speed wireless paging products
- Digital multi-function telephone sets

22. Automobiles

- Automobile body and auxiliaries
- New types of engines for automobiles and motorcycles
- Key automobile parts and components
- Precision forging, ferrous casting, non-ferrous casting and blanks for key automobile parts
- Automobile moulds
- Automobile electronics
- New materials for lighter automobiles
- Development system for whole body or parts and components of automobiles and motorcycles
- Engine management systems, ternary catalysis and conversion devices and other auto exhaust control systems
- Inspection systems for State-level testing centers for automobiles and motorcycles

23. Shipbuilding

- Large high-tech, high-performance ships and those over 60,000 tons
- Mainframe of ships

-Power generation plants for ships

-Crank axles, special auxiliary engines, electronic instruments for ships

24. Aviation and Space

-Civilian aircraft and parts and components

-Aviation engines

-Comprehensive aviation electronics systems

-Airborne equipment systems

-Whole bodies, rotating blade systems and transmission systems of helicopters

-New aeronautics and space materials and their application

-Combustion turbines

-Satellites, carrier rockets and their parts and components

-Satellite applications

-Space technology applications

25. Light Industry and Textiles

-Designing, processing, manufacturing of moulds for non-metal products; Paper pulp, paper and paperboard projects that meet the requirements for economic scales

-New types of high-speed corrugated paper of nine layers or more

-Post dressing and processing of leather

-Mercury-free secondary manganese-alkaline batteries, Ni-Cd batteries and lithium ion batteries

-Special industrial sewing machines

-Enzyme products

-Synthetic spices, mono-isolate

-Freon-free refrigeration technologies and applications

-Xanthate glue (food grade)

-High-grade packaging paper products

-New type packaging materials

-Fully automatic high-speed multi-color printing

-Printing and dyeing of high-grade fabrics and hightech post-finishing processing

-Polyester, with daily output of single series at 400 tons or more

-Highly emulating surface chemical fabrics

- Textile ointments, assistants and dyestuffs
- Carbon fiber, aromatic ester fiber and modified, profiled, ultra-thin and compound chemical fibers
- Processing of special natural fiber
- Special textiles for industrial uses
- High-tech light industrial and textile machinery
- Dacron staple fiber for direct spinning, 30,000 tons or more
- Dacron long fiber for direct spinning, 10,000 tons or more

26. Construction

- CAD for construction
- Computer aided designing and manufacturing of building machinery
- Computer applications for construction operations
- Key technologies for energy saving in construction
- High-rises and space structure equipment
- Key equipment for building construction
- Materials and components for high-performance outer maintenance structures

27. Urban Infrastructure and Real Estate

- Urban underground trains, light rails and public transport systems
- Urban roads
- Urban transport control system and equipment
- Urban flood control
- Urban water supply, tap water, water drainage and waste water treatment
- Treatment and comprehensive utilization of urban garbage and other solid wastes
- Urban fuel-gas plants
- Urban central heating provision
- Energy-saving and low-pollution heating equipment
- Urban gardening and greening
- Urban three-dimensional parking lots
- Renovation of urban houses in danger of collapsing
- Comfortable and affordable housing projects

- Economic and suitable commercial housing

- Properties management

28. Comprehensive Utilization of Resources and Environmental protection -Ecological and environmental renovation

- Natural reserves

- Comprehensive resource utilization projects

- Comprehensive utilization of solid wastes

- Comprehensive utilization of waste water/liquid

- Comprehensive utilization of waste gases

- Comprehensive uses of wastes

- Large-scale waste water treatment

- Waste gas monitoring

- Marine development and marine environmental protection

29. Service Industry

- Chain stores, supermarkets, wholesale stores and other commercial facilities

- Modern management methods such as distribution centers and representative services

- Modern storage and transportation facilities for grains, cotton, edible oil, chemical fertilizers and petroleum

- Large farming and sideline products wholesale markets

- Integrated management and distribution facilities for farming products that incorporate commerce, industries and the farming sectors

- Socialized farming service networks

- Construction of tourist transport facilities and infrastructure

- Major tourist sites and resorts for holiday-makers and special tourism projects

- Comprehensive development project of large-scale tourism resources

- Banks, financial companies and trust investment companies

- Insurance companies, insurance brokers and representative agents

- Securities companies, investment banks, commercial banks, trust management companies

- Foreign currency dealings

- Finance, insurance and foreign currency consultancy

- Leasing services

- Public cultural, art, entertainment, broadcast, television and sports facilities

-Relics protection

-Basic health care, disease control, women and children's health care, rehabilitation and welfare facilities for the invalids

-Educational and research facilities for key colleges and special education institutions

-State Engineering Research Center, State Key Laboratories, New and High-tech Start-up Centers, New Products Development and Designing Centers, Scientific Research Testing Bases

-Technology popularization, scientific and technological exchanges, meteorology, environmental protection, mapping, seismology, marinology, patents, technical supervision and other scientific and technological services

-Economics, science and technology, engineering, management, accounting and auditing, employment and legal consultancy

-New and high-tech advertisements; economic, scientific and technological exhibitions, science popularization; maintenance and services for precision instrument and equipment

【Big Medium-sized Small】 【Print】

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