

# Decree of the National Development and Reform Commission

No. 40

Directory Catalogue on Readjustment of Industrial Structure (Version 2005), which has been approved by the State Council, is hereby promulgated and shall come into force as of the date of its promulgation.

Director of the National Development and Reform Commission, Ma Kai  
December 2, 2005

## Directory Catalogue on Readjustment of Industrial Structure (Version 2005)

### Category I. Encouragement Project

#### I. Agricultural and forestry

1. Integrated treatment of median- and low-yield farmland
2. State-level construction of farm produce bases
3. Soilless cultivation of vegetables and flowers
4. Development and application of the planting and breeding technology featuring high quality, high yield, efficiency and standardization
5. Prevention and curing of serious plant diseases and insect pests and animal diseases
6. The construction of genetic engineering of crop, domestic animal, domestic fowls, aquatic animal and plant as well as wildlife and gene bank
7. Breed selection, breeding, breed conservation and development of good strains of seeds of animals and plants
8. Development and application of seed (seedling) detox
9. Technology development of dry land water saving agriculture, protective cultivation, ecological agricultural construction, arable land quality construction as well as technological development of rapid fertilizing
10. Technological development and application of ecological planting (or breeding)
11. Development and application of pollution-free and degradation membrane for agricultural use as well as heavy metal degradation technology in agricultural soils
12. Research and development of green feedstuff and additive
13. Stock enhancement engineering of inland watershed lakes
14. Distant fishery
15. Cow breeding
16. Industrialization production of embryo (in vivo) and semen
17. Development of agricultural clone technology
18. Maintenance care of arable land and the development of rapid measuring technology of soil, fertilizer and water
19. Construction of germ plasm conservation land and conservation region of agricultural and forestry species as well as the collection, conservation, appraisal and application of germ plasm resources
20. Returning corn stalks to the field as well as its comprehensive utilization (including ensile, cattle raising with ammoniated straw, returning to land, gasification, cultivating edible fungus and etc.)

21. Development project of the comprehensive utilization of agricultural renewable resources (methane project, ecological homeland and etc.)
22. The project of restoring lake on farmland
23. Cultivation of edible (officinal) fungus
24. Comprehensive control project of disasters in grassland and forest
25. Utilization of the non-agrarian land and the forest or (forest (grassland) converted from arable land (and grazed field) and restoration of the natural grassland
26. Development of new diagnosis reagent, vaccine and medicines with low-toxin and low-residues for animal epidemics
27. Artificial planting of high-yield pasture
28. Planting and development of natural rubber
29. Development and application of monitoring technology of pollution-free farm produce and the harmful element measuring in its origin environment
30. Development and application of the technology featuring innocuous disposal of organic castoff as well as the industrialization technology of organic fertilizer
31. Innocuous agricultural, husbandry and fishery products development and the application and development of green production technology
32. Warehousing and transportation, preserving, processing and comprehensive utilization of agricultural, forestry, animal husbandry and fishery
33. Project for the natural resource conservation such as natural forest
34. Tree and grass planting and seedling project
35. Development and application of comprehensive technology concerning water and soil conservation
36. Ecosystem restoration and reconstruction project
37. Construction of natural reserve covering forest, wildlife, wetland desert, grassland and etc., and eco-demonstration project
38. Shelter forest
39. Desertification control and sand prevention and control project
40. New material production for sand fixing, water conservation and soil improvement
41. Cultivation of salinity tolerance and cold-resistant plants
42. Fast-growing and high-yield plantation project, industrial material forest project, and construction of new, and economic forest featuring nobility, specialty, excellence
43. Construction of bamboo and rattan as well as the development of new production technology
44. Young and sapling tending project
45. Protection, amelioration, development and utilization of wild economic forest species
46. Conservation project of endangered species of wild fauna and flora
47. Forest genetic resources conservation project
48. Deep processing of shoddy and little woods, shrubs grown in sand and three remains and development of serial products
49. Establishment of breeding and cultivation base of wildlife and monitoring and alert system of epidemic disease
50. Cultivation (planting) of fine traditional Chinese medicine and fine, plentiful, endangered or rare animal or vegetable drugs
51. Artificial cultivation and development of underwood species such as spice, wild flower
52. Development of the wood base composite technology
53. Production and comprehensive utilization of Bamboo engineering materials

and plant fibre engineering materials

54. Deep processing of forestry chemical products

55. Development and application of weather modification technology such as artificial rain increase and hail suppression

## II. Water conservancy

1. Control of big rivers and lakes as well as harnessing project of the river branches

2. Trans-valley water diversion project

3. Water source projects in regions short of water resources

4. Water-drinking by human and animals in rural areas as well as the water improvement projects

5. Safety construction of flood storage and retention areas

6. Maintenance and construction of sea dikes

7. Silt clean-up in rivers, lakes and reservoirs

8. Danger removal and consolidation of sick and dangerous reservoirs and embankments

9. Supervision upon hidden troubles in the dykes and the application of restoration technology

10. Urban waterlogging and flood-prevention project

11. Correction works of outlet to sea

12. comprehensive utilization of key water-control project

13. Pastureland water conservancy

14. Warp land dam engineering

15. Civil engineering composite materials in water conservancy projects

16. Reclamation of large and medium-sized irrigation area and its supporting facility construction

17. Construction of emergency facilities to prevent and control flood and drought

18. Water provision and allocation with high efficiency and water saving irrigations and the equipment production

19. Development of Automated systems for automatic measurement and reporting of water situation and flood control

20. Manufacture of instruments and equipment for hydrological data gathering

## III. Coal

1. Coalfield and geophysical exploration

2. Construction of high-yield and high-efficient mines (including mine and the open air ones) with the annual yield over 1.2 million ton and high-efficient coal washery

3. Preventing mine disaster (gas, coal dust, mine water, fire, wall rock).

4. Development and production of environment-friendly mine for industrial and life use

5. Development and application of coal water mixture technology

6. Development and application of gasification of coal and liquefaction

7. Exploration and development of coalbed gas and utilization of mine gas

8. Utilization of low-calorie fuels (including coal slack), the development of associated resources in coal mines as well as the equipment manufacture

9. Pipeline coal transmission

10. Development and application of efficient washing and desulphurization technology

11. Development and application of water-waving coal cleaning technology

12. Governance of sank ground, protection and utilization of water resources in mines

13. Integrated construction of coal, electricity, and coked coal (coke-oven

gas, deep processing of coal tar)

14. Coal mining method to improve resource recovery, application of technology development and equipment manufacture

#### IV. Electric Power

1. Waterpower

2. Construction of the machines plant with the capacity no less than 600,000 kw per machine and exceeding the critical

3. Heat-supply machines with the concentrated integrated thermal power capacity no less than 300,000 kw as well as the joint generation of heat, electricity and cold power

4. Construction of large scale air-cool power generating machines with the capacity no less than 600, 000 kw per machines in water-shortage area

5. Development and utilization of wind energy power to generate electricity and such renewable resources as solar energy, geothermal energy, ocean energy, biomass energy and etc.

6. Joint and cycling power generation by fuel gas and steam

7. Clean coal power generation through joint and cycling means such as cyclic fluidized bed boiler with the capacity no less than 300, 000 kw, pressurized fluidized bed and integral coal gasification

8. Electricity generation through the unit machine with its capacity no less than 200, 000 kw as well as cyclic fluidized bed boiler and coal slack and faulty coal

9. Direct or alternate current transmission and transforming with the capacity no less than 500 kw

10. Desulfurization reclamation of the operating generating sets

11. Reform and construction of power network in urban and rural areas

12. Technological development of relaying protection, and information safety supervision

13. Development of intensive design of large-scale plants and large power network transformer as well as the automatic technology

14. Trans-regional interconnecting network

15. Extension and application of new technology for power transmission and transformation

16. Development and application of the technology with regard to reduction of electric loss in the process of transmission, transformation and distribution

17. Development and application of technology concerning scattered electricity provision

#### V. Nuclear Energy

1. Geological exploration, exploitation and for uranium mine and smelting

2. Low-temperature heat supply nuclear reactor, fast neutron breeder reactor and fusion reactor, advanced research reactor, high temperature gas-cooled reactor,

3. Construction of nuclear power plant

4. Manufacture of high-performance nuclear fuel elements

5. Reprocessing of spent nuclear fuel

6. Manufacture of instruments and apparatuses for nuclear analysis and nuclear survey

7. Development of isotope, accelerator and irradiation applied technology

8. Technological development of advanced uranium isotope separation

9. Technological development of radioprotection and manufacture of monitoring equipment

10. Development of instrument and meter for nuclear facility protection

#### VI. Petroleum and Natural Gas

1. Petroleum and natural gas exploration and exploitation
2. Exploration and exploitation of natural gas hydrate
3. Warehousing and transportation of crude oil, natural gas, product oil and construction of tube transmission facilities and network
4. Comprehensive utilization of oil and gas associated resource
5. Technological development and application with regard to improving recovery ratio of oil-gas field, insurance technology and facilities for safety production, recovery of ecological environment and pollution prevention
6. Recycling of dumped natural gas

#### VII. Steel

1. Exploration of ferrous metal mine alternative resource and technological development of key exploration
2. Construction of new generation large-volume mechanic coke oven of coke dry quenching, coal charging and coke pushing and cleaning apparatus with the height and width of the carbonization chamber no less than 6 meter and 500 mm respectively
3. Technological development of blended coal coking and tamping coking, techniques
4. Technological application of dry quenching of cock, heat exchange technology of heating conducting oil
5. Production of grate and rotary kiln with the annual yield 1.2 million ton and such acid pellets as belt pellet firing machine
6. Ironmaking through direct reduction process with the annual yield no less than 150,000 ton
7. Technological development and application of advanced and applicable fusion
8. Processing of scrap steel (sorting, shearing and packaging, steelmaking excluded)
9. Technological development and application of alloy steel square billet, large stencil, round billet, abnormal billet and near-terminal continuous casting
10. Development and application of modern hot rolling wide band rolling mill key technology and critical component manufacture
11. Development and application of thin slab continuous casting and tandem rolling key technology and critical component manufacture
12. High tension steel production
13. Steel production for high-speed heavy haul railway use
14. Steel tube production for oil well pipe in oil extraction, high-pressure boiler tuber in plant, long-distance transmission of oil and gas
15. Production of H type steel, deformed bar no less than 400MPa
16. Development and application of cold continuous rolling wide band steel key technology and critical component manufacture
17. Production of cold roll silicon steel sheet
18. Technological application of controlled rolling, controlled cooling technology
19. Production of ultra-high power graphite electrode with the diameter no less than 500 mm
20. Production of furnace micropore for large blast use, and ultra micropore
21. Production of refractory materials featuring fine-composition and irregularity
22. Technological development of new ferroalloy technics and technology
23. Integrated thermal power with full coal gas
23. Completely fueled coal gas thermoelectric joint production
24. Application of heat storage combustion technology
25. Application of integrated automation of metallurgy technology



## VIII. Non-ferrous Metal

1. Non-ferrous metal mine alternative resource exploitation and development of its key technology
2. Construction of large and medium-sized mines of copper, aluminum, lead, zinc and nickel
3. Exploitation of rare resources in of deep and difficult mineral deposit
4. Development and application of pollution-free and intensified sulfur material melting technology
5. Development of high-efficiency extraction equipment and technics
6. Production and technological development of fine copper plate, copper belt, foil and tube
7. Development of the production technology of fine aluminum plate, belt, foil and high-speed sheet band casting and rolling technology and the relevant equipment manufacture
8. Manufacture of high-performance metals for railway use
9. Development and application of non-ferrous metal composite materials
10. Production of high-performance, fine cemented carbide and its further processed product and production of ceramic material
11. Further processing of rare earth metal and its application
12. Production of tin compounds, antimony compounds (antimony oxide excluded)
13. Manufacture of high-performance magnetic material
14. Production of superfine materials, electronic pulp and its products
15. Manufacture of non-crystal alloy thin belts
16. Manufacture of new braking materials
17. High-quality magnesium alloy casting and the relevant plate, tube and section articles development
18. Development of non-ferrous production procedure supervision technology and its control technology
19. Development and application of calcinations, hot-pressure pre-oxidization and bacteria-oxidization and gold extraction technique

## IX. Chemical Products

1. Exploitation of chemical raw material and construction of large and medium-sized chemical raw material mine
2. Construction of energy-saving and environmental-friendly nitrogenous fertilizer and the localized and economic reform of raw material
3. Production of high-quality phosphate and compound fertilizer, potassium fertilizer and exclusive compound fertilizers
4. Development and production of high-efficiency, low-toxin, safe and new pesticide and midbody
5. Inorganic chemical production facilities constructed and reformed by cleaning production technology
6. Environmental-friendly coating production
7. Production of new biochemical products, exclusively fine chemical products and membrane material
8. Development and production of new, high-efficiency and pollution-free catalyst
9. Production of organosilicon, organofluorin, and high-performance inorganic fluorination products
10. Production of inorganic nanometer and functionality material
11. Development and production of new dyestuff and its midbody
12. Construction of large arene production equipments
13. Reclamation of the facilities for improving quality of oil fining and saving energy

14. Construction large ethane (with the annual yield no less than 800,000 tons in the eastern and offshore regions and no less than 600,000 tons in the western region) as well as the alteration and extended construction of the existing ethane

15. Development of large synthetic resin its new techniques, as well as its new products

16. Manufacture of large caprolactam, glycol, acrylonitrile as well as their complete equipments

17. Development advanced technologies such as of large synthetic rubber, synthetic latex as well as thermoplastic elastomer as well as the relevant products

18. Production of exclusive chemical products for textile use such as new environmental-friendly oil, auxiliary agent for

19. Production of composite material, functionality polymers, engineering plastic and low-cost and engineering plastics and new plastic alloys

20. Production of large-scale and basic organic chemical products adopting new techniques

21. Production of advanced road asphalt, polymer modified asphalt, and special asphalt

22. Comprehensive utilization of heavy crude oil with low sulfurs

23. Technological development of auxiliary agent, new sorbent, high-performance additive and composition for processing synthetic resin

24. Manufacture of PVC by oxychlorination means with the annual yield no less than 200,000 tons

25. Production of titanium pigment by chlorination means

26. Production of advanced belt tyre radial, its supporting materials and equipment production

27. Production of alcohol ether fuel

#### X. Building Material

1. Development of ripe-material new dry-process cement, equipment and supporting material with the daily yield no less than 4,000tons (daily yield no less than 2,000 tons in western regions) and over

2. Development and production of new energy-saving, environmental-friendly walling materials, insulation and deadening material, waterproof and airproof material, architectural coating

3. Production of fine environmental-friendly friction and airproof material

4. Development and production of alkali free glass fibre of direct melting process and high-performance glass fibre and manufacture technology

5. Production of fine and energy-saving composite doors and windows as well as hardware fitting

6. Development and manufacture of new type tube (including pipe fitting) technology

6. Development of fine float glass technique, equipment, energy-saving and safe sheet glass deep processing technology

8. Development of water closet with the amount of wash water no more than 6 liter each time, water-saving urinal and pan

9. Production of high-tech and environmental-friendly and high purity, superfine mineral material development and manufacture of technological equipment

10. Development of key technology and equipment concerning absorbing industrial castoff, town refuse, and innocuous and renewable disposal in the process of the production of such building products as new type dry-process cement and new type walling material

11. Technological development of Mechanics & Forming Technology concerning fibrous glass reinforced plastic products (glass reinforced plastics)
12. Technological development of bulk cement equipment
13. Technological development and production of high-performance concrete additive
14. Development and manufacture of artificial sand production line with the annual yield no less than 500,000 tons and its technological equipment
15. Construction of large-scale cement milling with the annual yield no less than 1 million tons
16. Production of large-scale scrapped stone material with the annual yield more than 200,000 cubic meter and super-thin composite stone plate with its annual yield more than 300,000 cubic meter
17. Development of high-quality artificial crystal material production technology

#### XI. Medicine

1. Development and production of new medicine with independent intellectual property right
2. Development and production of vaccine and medicine to prevent grave infectious disease
3. development and production of new diagnosis reagent and biochip
4. Development and production of new birth control medicine and apparatus (including the 3rd generation progestogen contraceptive, the 3rd generation intra-uterine device and etc.,)
5. Development and natural medicine, marine drug
6. Development and production of new preparation supplementary material
7. Development and production of key medicine midbody
8. Development and production of new technology and new products of medicine bioengineering
9. Development and production of new pharmaceutical preparation
10. Development and production of large scale medicine polypeptide and nuclear acid synthesis, zymolysis production and purification technology
11. Development and production of membrane technology, supercritical extraction technology, chirality technology and self-incrimination technology and etc.,
12. Development and application of pharmaceutical cleaning products technology
13. Development of new packing materials for medicine and its technology
14. Modernization of traditional Chinese medicine (development of artificial propagation breeding technology for endangered species; application of advanced agricultural technology in the standardized planting, breeding pf traditional Chinese medicine; development and application of the new extraction, purification and quality control technology of active ingredient of traditional Chinese medicine; development and application of modern formation technology of traditional Chinese medicine, development and application of process control process and equipment; development and industrialization of new technology of traditional Chinese medicine prepared in ready-to-use forms)
15. Production and development of ethnic minority medicine
16. Development and manufacture of digital medical image products and medical information technology
17. Development and manufacture of early diagnosis medical treatment apparatus
18. Development and manufacture of Minimal Access Surgery and interventional therapy equipment and apparatus
19. Development and production of medical first-aid and rehabilitation engineering technology and apparatus



20. Breeding of animal for experiment use
21. Development and utilization of microorganism

## XII. Mechanism

1. Manufacture of key components and parts and cutter in digital control machine-tool
2. Manufacture of Triple axes joint-operation, speedy, precise numerically controlled machine numerical control system and alternating current servo mechanism
3. Development and manufacture of new transducer
4. Manufacture of sedan bearing, railway bearing, precise bearing and low noise bearing
5. Manufacture of 8.5M rotor and over mixed current and axle current hydropower generation equipment and its key matching auxiliary engines
6. Manufacture of large-size constant flow and pumping energy conservation hydropower generating units and its key matching auxiliary engines
7. Development of supercritical and hypercritical thermal power generating units with the capacity no less than 600,000 kw, its equipment manufacture as well as its key matching auxiliary engines
8. Manufacture of circulating fluidized bed boiler with its capacity no less than 300,000 kw
9. Manufacture of gas and steam joint cycling equipment with its capacity no less than 400,000 kw
10. Development of large, precise casting and forging technology for exclusive use and its equipment manufacture
11. Manufacture of ultra-high-pressure direct or alternate current transmission and transforming Equipment complex with its capacity no less than 500 kv
12. Manufacture of clean energy generating equipment (nuclear power, wind power generating, solar energy, tide and etc.,)
13. Development and application of synthetic ammonia equipment with its annual yield no less than 300,000 tons
14. Technological development and application of ethane equipment complex with its annual yield no less than 600,000 tons
15. Development and manufacture of DCS control system intelligence on-the-spot meter
16. Development and manufacture of precision instrument
17. Manufacture of new hydraulic pressure, airtight pneumatic elements and parts
18. Development of automatic welding equipment and its equipment production
19. Design and manufacture of large and precision mould and automobile mould
20. Development of controllable atmospheric and large-scale vacuum heat treatment technology and equipment as well as its equipment manufacture
21. Design and manufacture of safety production and environmental protection testing instruments
22. Manufacture of urban refuse treatment equipment
23. Manufacture of fly ash warehousing and transportation equipment complex
24. Manufacture of recycling equipment for old and used battery, plastic, old and used rubber
25. Manufacture of equipment for seawater desalination and its direct use
26. Development and manufacture of industrial robot and its equipment complex
27. Manufacture of mine integrated exploitation and transportation equipment complex as well as large coal wash-dressing equipment
28. Manufacture of large glory hole equipment complex with its annual yield no less than 20 million tons

29. Manufacture of large oil and gas gathering and transferring equipment
30. Manufacture of automatic speedy, multi-color printing equipment
31. High-efficiency use of seeds, fertilizer, water and pesticide and manufacture of farm machinery such as protective farming and etc.
32. Development and manufacture of seeds processing equipment complex with the yield more than 5 ton per hour
33. Manufacture of automatic breed equipment complex including poultry and animal breeding
34. Manufacture of agricultural equipment
35. Equipment manufacture for deep processing agricultural, forest, fishery, animal husbandry, resource comprehensive utilization
36. Manufacture of key equipments of straws comprehensive utilization
37. Manufacture of harvesting machine (cotton, rice, corn, bean, potato, grass feedstuff)
38. Development of industrialization production equipment for afforestation and artificial vegetable
39. Development and manufacture of major engineering construction and key components and parts
40. Development and manufacture of electricity-controlled combustion engine and key components and parts
41. Development cold (heat) accumulation technology and equipment manufacture
42. Manufacture of large energy retrieving arrangement equipment complex
43. Design and manufacture of no-less-than-7, 000 -meters deep drilling equipment complex
44. Manufacture of high-efficiency dredging equipment
45. Manufacture of medical trash collection processing equipment
46. Development of automatic meteorological station system and equipment manufacture
47. Manufacture of special meteorological observation and analysis
48. Systematic development of seismic station, network and dynamic meteorological observation technology and its equipment manufacture
49. Development of new technology for geologic hazard observation and treatment as well as its equipment research and development
50. Manufacture of harmful gas purification equipment
51. Technology and equipment relevant to food quality safety inspection and testing
52. Manufacture of equipment for dismantling scrapped and used automobile

### XIII. Automobile

1. Systematic design and development of for automobile, motorcycle, engine and their key components and parts
2. Manufacturing of such key components and parts as automatic transmission case, heavy automobile automatic transmission case, advanced convenient automobile and engine with independent property right (brand)
3. Manufacture of automobile lightweight and environmental-friendly new material
4. Precision forging and stamping, multi-station compression molding and forging of key automobile components and parts
5. Systematic development and manufacture of detection piece for automobile and motorcycle experiment and maintenance
6. Research, development and manufacture of compressed natural gas, hydrogen fuel, synthol, liquefied petroleum gas, ether fuel and new energy for mixed dynamic automobile, dynamoelectric automobile, fuel cell automobile and their relevant components and parts.

7. Advanced low-displacement economic automobile, pallet carrier, multi-spindle special car

8. Development and manufacture of advanced diesel motor for sedan

9. Development and manufacture of urban low-chassis bus

#### XIV. Marine Vessel

1. Design and manufacture of high-tech, high-performance, special vessel and large vessel with its capacity no less than 100,000 tons

2. Manufacture of passenger ship, ferry-type boat, passenger chest ship, seatrain with its capacity no less than 10,000 tons

3. Manufacture of LPG and LNG ships with their volume no less than 5000 cubic meters individually

4. Manufacture of TEU and container ships with their volume no less than 3,000 standard boxes

5. Manufacture of power system, plant and special auxiliary engines

6. Design and manufacture of marine engineering equipments such as large ocean ships and offshore drilling ships, drilling platform, ocean floating oil storage ship.

7. Design and manufacture of ship control and automatic communication and navigation, instrument and meter

#### XV. Aviation and Spaceflight

1. Development and manufacture of aircraft and its components and parts

2. Development and manufacture of aero engine

3. Development and manufacture of airborne equipment

4. Development and manufacture of helicopter body, rotor system and transmission system

5. Development and production of new material for aviation and spaceflight use

6. Manufacture of gas turbine for aviation and spaceflight use

7. Manufacture of satellite, carrier rocket and their components and parts

8. Development and production of aviation and spaceflight applied technology and the system hardware and software as well as the terminal products

9. Development and manufacture of aircraft ground simulation training system

10. Development and manufacture of aircraft ground maintenance and detection facilities

11. Construction of satellite ground system and its equipment manufacture

#### XVI. Light Industry

1. Production of integrated wood pulp, paper and carton in line with economic scale

2. Development and production of high-tech pulping and papermaking machine and its equipment complex

3. Mould design, processing and manufacture of metalloid products

4. Development of biological degradable plastic and its serial products

5. Development and production of agricultural plastic water-saving instrument and multilayer membranes

6. Development of high-tech ceramics (including industrial ceramics) and equipment technology

7. Development and application of ceramics clean production technology

8. Development and manufacture of optical-mechanical-electronic integration sewing machine and special industrial sewing machine

9. Development of new technology of natural perfume, compound essence and production manufacture

10. Research, development and production of new ecological (easily degradable, recoverable and recycling) package material

11. Development and manufacture of new plastic products such as new plastic

warming plate, large-caliber plastic pipe (its diameter is more than 0.5 m), ultra-low noise drainage plastic tube, anti-seepage geomembrane, medical plastic

12. Development and application of high-and-new digital printing technology and high-definition printmaking system

13. Manufacture of high-tech environmental-friendly battery and cell (mercury-free alkali manganese battery, nickel hydrogen battery, lithium ion battery, high-capacity, airproof, maintenance free lead acid cell, fuel cell, zinc air cell, solar cell)

14. Products for ethnic minorities natural additive for foodstuff technology

15. Development and application of

16. Development and application of ECF and TCF chemical pulp bleaching technology

#### XVII. Textile

1. Production, printing and dyeing of top grade textile products and after-treatment

2. Production of top-grade chemical fiber fabrics by adopting high-emulation fiber technology

3. Production of all kinds of differential, functional chemical fiber, high-tech fiber

4. Production of fiber and new non-fiber Polyester (polyethylene terephthalate, polydiacid glycol ester, PTB and etc.,)

5. Processing of special natural fiber meeting the demand of ecological, resource comprehensive utilization and environmental protection (including animal fiber, fibrilia, bamboo fiber, mulberry silk, colored cotton and etc.)

6. Production of special textile by employing high-and-new technology

7. Manufacture of new high-tech textile machinery and its key components and parts

8. Production of top-grade carpet, drawnwork and embroider)

9. Production of top-grade clothing by adopting CIMS

10. Production of new fibers (Poly-lactic acid, fiber produced through solvent, propagation albumen fiber and etc.) by using renewable resources

11. Development and manufacture of testing and experiment instrument needed by textile and textile machine production enterprises

#### XVIII. Architecture

1. Development of energy-saving and land-saving architecture

2. Development of tall building and spatial structure technology

3. Development and manufacture of low-noise building-operation appliance

4. Manufacture of high-performance periphery constructional material and parts of housing

5. Development of new construction system

6. Research, development and extension of building shock insulation and absorption structural system and its products

7. Development of architectural water-saving, energy-saving, land-saving and material-saving key technology

8. Production of intelligence construction projects and research upon manufacture and integration technology

9. Application of on-heat-basis central heating technology in residence and public building

10. Development of commodity concrete, commodity mortar and its engineering techniques

#### XIX. Urban Infrastructure and Real Estate

1. Production of urban basic spatial information data production and key technique development



2. Construction of urban public traffic
3. Construction of urban road and intelligence transportation system
4. Development of urban traffic control system and its equipment manufacture
5. Construction of urban underground tunnel
6. Urban water supply and sewage project, water supply source and water treatment plant
7. Urban fuel project
8. Central heating supply construction and redevelopment work
9. Urban water collection and utilization project during the rainy season
10. Manufacture of energy-saving, low-pollution heating installation
11. Cities and towns garden afforestation and ecological community construction
12. Construction of urban sky parking
13. Research, development and extension of advanced and applicable building packaged technology, products and housing
14. Filling gas project for fuel gas automobile
15. Development of information technology for urban construction administration
16. Development of key technology concerning urban ecological system
17. Systematic development of urban expressway, urban railway transportation (approved by the State) and manufacture of automobile
18. Development and application of urban water-saving technology
19. Systematic and technological development of intelligent urban illumination, environmental-friendly illumination products
20. Nation model residence engineering construction

#### XX. Railway

1. Newly-built railway construction
2. Speed acceleration and extension of transport capacity for the existed railway
3. Development and construction of passenger special line and express railway system technology
4. Development of locomotive synchro control, ECP, and axle-weight cargo heavy load with its capacity no less than 25 tons
5. Development of railway operations safety technology assurance system and the relevant equipments
6. Manufacture of automatic classification yard and of handling mechanization equipment
7. Development of railway transport information system
8. Development and construction of railway container transport
9. Equipment manufacture and technological development of AC-driven locomotive, motor train unit, plateau locomotive, rescue aid of locomotive
10. Manufacture of core elements and parts of locomotive AC-driven locomotives (including IGCT and IGBT)
11. Development of railway contact line, switches and crossings, towage electricity supply technology with the speed no less than 200 km per hour and its equipment manufacture
12. Development of power factor compensation technology for electricity compensation in electric railway towage
13. Development of railway line detection and rolling stock checking technology and its equipment manufacture
14. Development and manufacture of large road maintainer, multipurpose road maintainer, and facility for project use
15. Development of automatic traffic control technology
16. Remedy of concrete structure and development of durability technology and material



17. Development and application of high-speed magnetic levitation traffic system technology and its material

18. Bowl collector in the passenger train and the works to clean and treat ground dirt

#### XXI. Highway

1. Construction of national main trunk line, main trunk line in the developing western region, national expressway network project

2. Development and construction of intelligence highway transportation system

3. Development and construction of speedy transport of both travelers and goods

4. Development and construction of highway management information system

5. Development and production of new materials for highway engineering

6. Design and manufacture of new mechanic equipment for highway engineering and maintenance

7. Highway container and compartment

8. Development of huge long span bridge and its maintenance technology

9. Construction of long and large tunnels and development of its maintenance technology

10. Development and construction of rural passenger transportation network

11. Construction of rural highway

#### XXII. Water Transport

1. Construction of deep-water berths (ten thousand tons in the offshore region and thousand tons in the inland river)

2. Construction of sea outlet deep channel and inland river trunk line as well as navigation building

3. Large port automatic handling project

4. Ocean shipping EDI system development

5. Construction and development of above water safety guard system and life saving and salvage equipment

6. Inland navigation and standardization of ship type

7. Design and manufacture of special engineering and mechanic equipment needed by port, deep channel, and navigation hinge

8. Container multimodal transportation and above water container transport

8. High-speed above-water passenger transport

10. Marine transport of crude oil, product oil and natural gas

11. Construction and development of vessel oil spilling monitoring and emergency elimination system

12. Above water Ro/Ro multimodal transport and waterway staple bulk freight

13. Construction of water carriage information system

14. International liner transport

#### XXIII. Air Transport

1. Airport construction

2. Public air transportation

3. General aviation

4. Construction of air traffic control and communication navigation system

5. Aircraft maintenance

6. Aviation computer management and its network development and construction

7. Construction of aviation petroleum facilities

8. Development and manufacture of aviation special vehicle, freight yard equipment, storage equipment, cargo container, high performance airport security inspection facilities, high performance fire fighting equipment

9. Air and sea supervision and patrol as well as the salvage facility construction

#### XXIV. Information Industry

1. Construction of optical synchro transmission system with its capacity no less than 2.5GB/S
2. Construction of digital microwave synchro transmission equipment with its capacity no less than 155MB/S
3. Manufacture and construction of satellite communication system, earth station equipment
4. Construction communication supporting networks such as administrator monitoring, signaling No.7, synchronous clock, and charging
5. Production and equipment of data communication network
6. Production and construction of such new service networks as intelligent network
7. Manufacture and construction of wide band network equipment
8. Construction of digital cellular mobile telecommunications
9. IP service network construction
10. Post saving network construction
11. Postal integrated service network construction
12. Automation engineering of mail handling
13. Construction of satellite digital TV broadcasting system
14. Construction of telecom value-added service platform
15. Manufacture of wavelength division multiplexing transmission system equipment with its capacity no less than 32 waves
16. Manufacture of digital synchronization series optical fiber communication system with its capacity no less than 10GB/S
17. Manufacture of new technology facilities supporting communication network
18. Manufacture of stratosphere communication system equipment
19. Manufacture of digital mobile communication (including GSM-R) access network system, Digital cluster telecommunications systems and such network equipments as router and gateway
20. Manufacture of large and medium-sized electronic computer and high performance microcomputer, workstation, server
21. Design and manufacture of large scale integrated circuit with the width of the wire less than 1.2 micron
22. Manufacture of LSI
23. Production of new electronic parts and components (including elements and parts in chips, frequency elements and parts, power electronic device, photoelectron device, sensitive elements, parts and sensors, new type electron mechanical device, high density printing circuit board and flexibility circuit board and etc.)
24. Manufacture of special-purpose materials for electronics
25. Software development and production
26. Development and production of CAD, CAT, CAM, CAE system
27. Manufacture of special-purpose equipment for electronics, instrument and moulds
28. Manufacture of high capacity optical and disk drive and parts and digital memory card
29. Manufacture of new-type display device, medium and high definition color picture tube/ display tube and class bulb and the relevant technology development
30. Manufacture of new-type (non-variance) mono-mode fiber and optical fiber prefabrication rod
31. Manufacture of digital audio-visual broadcasting equipment
32. Manufacture of high-density digital laser optical player disc
33. Copy and manufacture of CDROM and CDR
34. Manufacture of digital video movie, digital record-replay equipment and

digital TV

35. Manufacture of Ordinary paper fax machine

36. Development and manufacture of information safety products, specialized equipment for network supervision

37. Manufacture of digital multi-feature telephone

38. Manufacture of no-less-than- 6-inch monocrystalline silicon, multicrystal silicon and wafer

39. Doppler radar technology and its equipment manufacture

40. Manufacture of automobile electronic products

41. Manufacture of medical treatment electronic products

42. Manufacture of financial electronic equipment and its system construction

43. Development of wireless LAN (Wi-Fi short-distance radio communication technology and etc.) and its equipment development

44. Development of e-commerce and e-government system

45. Development satellite navigation system technology and its equipment manufacture

#### XXV. Other Service Industry

1. Construction of e-commerce, modern logistic service system and such new retails as the small and medium-sized supermarket, convenience store, special store constructed by means of chain-store operations

2. Construction of modern storage logistic facilities for such important commodities as grain, cotton, sugar, edible oil, fertilizer, petroleum and etc.

3. Construction of modernized agricultural farm produce market and the construction for trade-industry-agriculture integration

4. Construction of idle equipment, used goods, old vehicle dispensing trading market

5. Construction of socialized services system for small and medium-sized enterprises

6. Construction of agriculture and forestry socialized service system

7. Rental services

8. Logistics socialized service

9. Construction of urban community service outlets

10. Real estate agency service, realty management service

11. Socialized service for the aged

12. Construction of the disabled service facilities

13. Construction of basic medical treatment, birth control, disease prevention and health service facility construction

14. Blood pool construction

15. Long-distance medical care

16. Construction of cultural and art, the press and publications, mass culture, scientific knowledge popularization, sport equipment and its industrialized operation

17. Cultural relic protection and its facility construction

18. Infant education, compulsory education, high school education, advanced school education, professional education and special education

19. Construction of long-distance education system

20. Construction of minor sites and social welfare facilities for the children

21. Construction travel infrastructure and development of travel information service system

22. Construction of industrial travel, agricultural travel, forest travel, ecological travel and other comprehensive development items for tourism resources

23. Credit card and its network service

24. Development of tourism commodities and the souvenirs

25. Consultant, tutorship, agency and training service
  26. Construction of state engineering (technology) research center, enterprise technology center granted by the State, key libraries, high and new incubator service center, new product development and design center, scientific research pilot plants, scientific experiment base
  27. Such scientific services as science popularization, technology popularization, science and technology exchange, intellectual property and meteorology, environmental protection, surveying and mapping, seism, ocean and technology supervision
  28. Consultancy for economy, programming, engineering, management, accountant, auditing, law and etc.
  29. Scientific research supporting sharing service for scientific instrument, experimental animals, literature information and etc.
  30. Commodity quality certification and quality testing
  31. Development and application of anti-counterfeiting techniques
  32. Credit information and grade service system
  33. Cartoon making
- XXVI. Environmental Protection and Energy-saving Comprehensive Utilization
1. Mining environmental protection restore works
  2. Ocean exploitation and ocean environmental protection
  3. Biodiversity protection engineering
  4. Development and utilization of brackish water, inferior water and seawater and seawater desalination project
  5. Development and utilization of alternative for ozonosphere substance consumption
  6. Construction of medical treatment garbage disposition center
  7. Construction of danger castoff treatment center
  8. Construction of regional old and useless automobile treatment center
  9. Environmental radiation monitoring engineering for the outflow
  10. Development and application of environmental monitoring engineering and new environmental protection technology
  11. Development and manufacture of radioactive waste and treatment technology for treatment of other danger waste
  12. Development and application of prevention technology for mobile pollution source (train, shipping, automobile and etc.)
  13. Development of urban traffic noise and vibration control and its material
  14. Development of grid, electromagnetic radiation technology for information system
  15. Development and application of dioxins release reduction and control technology
  16. Development and application of the alternative of sustainable organic pollutant products
  17. Development and production of permanent abandoned organic pollutant treatment technology
  18. Comprehensive utilization and control project of three wastes (waste water, waste gases and waste residues)
  19. Development and production of bacteria and additive for the treatment of three wastes (waste water, waste gases and waste residues)
  20. Development and application of mercury waste recycling and its supporting facilities
  21. Development of recycling water technology and its equipment manufacture and utilization
  22. Development of high-efficiency, low-energy-saving sewage treatment and its



- recycling technology and its facility manufacture
23. Reduction, recycling and innocuous treatment of urban refuse and other solid refuse and their comprehensive utilization project
  24. Production of anti-seepage membrane for burying wastes
  25. Development and production of new-type water treatment medicament
  26. Development of coal gas, flue gas dedusting, desulfurization and its device development and the relevant equipment manufacture
  27. Development of noise abatement wall technology and its material development
  28. Development and application of AC frequency conversion and energy-conservation technology
  29. Development and application of motor vehicle, diesel locomotive oil-saving technology
  30. Production and new-type energy-conservation and environmental-friendly household appliance and its key parts and components and technology development
  31. Production of water-and-energy-saving products
  32. Development and production of water monitoring equipment
  33. Development of new type energy-conservation lighting products and its production technology as well as its supporting material and equipment
  34. Development and application of energy-conservation, water-conservation and environmental-friendly and resource comprehensive utilization and its equipment manufacture
  35. Afterheat electricity generation through new type dry method cement manufacture of grog with its daily yield no less than 2,000 tons
  36. Recycling and comprehensive utilization of blast furnace, converter, coke-oven gas
  37. Energy-saving and environmental protection alteration of high-energy-consumption, heavy pollution in petroleum, petroleum chemical and chemical industries
  38. Development of high-efficiency energy-saving mine-exploitation, mineral dressing technology (medicament) and its equipment complex
  39. Comprehensive utilization of mixed elements mineral resource
  40. Development and comprehensive treatment of inferior, complicated and intractable mine
  41. Comprehensive utilization of gangue, waste residue
  42. Industrialization of renewable resource recycling

## Category II. Restriction

### I. Agriculture and Forestry

1. Overgraze in natural grassland
2. Medium density fiberboard with the annual yield no less than 500,000 cubic meters
3. Wood flakeboard with the uniline 30, 000 cubic meters annually
4. Rosin production with the annual yield less than 1,000 tons

### II. Coal

1. Items with the individual well model less than the above scales: the yield 300,000 tons annually in Shanxi, Shaanxi and Inner Mongolia; the annual yield 150,000 tons in Xinjiang, Gansu, Ningxia, Qinghai, Beijing, Hebei, Northeast and East China; annual yield 90,000 West and Middle South; annual yield 30,000 tons for the exploitation of ultra thin seam.
2. Coal exploitation by employing non-mechanic technique
3. The coal items with its design failure to meet the recycling rate
4. Coal item without the general programming of the coal industry authority of



the central government or the province (prefecture, city)

### III. Electric Power

1. Normal coal-fuel thermal power generating units with the unit machine capacity no more than 300,000 kw except the small grids in Tibet, Xinjiang and Hainan

2. Generating sets with its coal consumption more than 300 gram standard coal/kilowatt-hour, generating sets with its coal consumption more than 305 gram standard coal/ kilowatt-hour, except the small grids in Tibet, Xinjiang and Hainan

### IV. Petroleum, Natural gas and Chemical Industry

1. Polyester equipment by means of DMT and with its annual yield no more than 100,000 tons

2. Polypropylene with its annual yield no more than 70,000 tons annually (continuous mode and intermission mode)

3. Acrylonitrile sets with its annual yield no more than 100,000 tons annually

4. ABS rosin sets with its annual yield no more than 100,000 tons annually (with the exception of identity continuous mode)

5. Ethane sets with its annual yield no more than 600,000 tons annually

6. Normal and decompression oil refining sets with its annual yield no more than 8 million tons annually

7. Catalytic cracking unit with its annual yield no more than 500,000 tons annually; continuous reforming unit with its annual yield no more than 400,000 tons annually, hydrocracking units with its annual yield no more than 800,000 tons annually, delayed coking with its annual yield no more than 800,000 tons

8. Polyethylene units with its annual yield no more than 200,000 tons

9. Ethylene oxychlorination PVC units with its annual yield no more than 200,000 tons annually, calcium PVC units with its annual yield no more than 120,000 tons

10. Styrene unit with its annual yield no more than 200,000 tons (with the exception of dry gas ethyl benzene)

11. Polystyrene units with its annual yield no more than 100,000 tons

12. Extracted terephthalic acid with its annual yield no more than 225,000 tons

13. Ethylene oxide/glycol units with its annual yield no more than 200,000 tons

14. Caprolactam units with its annual yield no more than 100,000 tons

15. Ethylene acetic acid units with its annual yield no more than 200,000 tons annually, oxo process synthetic acetic acid

16. Ammonia units with its annual yield no more than 1 million tons

17. Joint alkali unit with its annual yield no more than 300,000 tons

18. Sulphur acid units with its annual yield no more than 200,000 tons annually, sulfur-iron mine units with its annual yield no more than 100,000 tons

19. Normal pressure and synthetic method nitric acid

20. Fertilizer items with petroleum (high-sulfur petroleum excluded) as its material

21. Sulphuric acid basic titanium pigment (with the exception of used acid, ferrous up to international standard and the requirement for release)

22. Lead chrome yellow production lines with its annual yield no more than 1,000 tons

23. Ferric oxide red with its annual yield no more than 5,000 tons annually

24. Calcium carbide mine furnace item with its capacity less than 25,000 kv (its capacity less than 45,000 tons) and more than 25,000 which fails to reach the access standard

25. Electrolytic manganese dioxide with its annual yield no more than 5,000 tons

26. Sodium hydroxide with its annual yield less than 15,000 tons
27. Potassium hydroxide with its annual yield less than 20,000 tons
28. The production equipments with the single line 20,000 tons annually or containing calcium calcinations chromium compounds
29. Mercuric chloride contact project
30. Anhydrous HF production equipment with the single line less than 10,000 tons annually (with the exception of supporting, self-use and electronic high purity HF)
31. F22 production apparatus with the single reaction kettle less than 6,000 tons annually, and post-processing 30,000 tons (with the exception of material deep processing)
32. (Cymene) organosilicon monoxide production apparatus with its annual yield less than 20,000 tons
33. Methane chlorination production item with its annual yield less than 80,000 tons (chloromethane items supporting organosilicon excluded)
34. Methane chlorination items with its annual yield 80,000 tons yet without supporting treatment for the sideline carbon tetrachloride
35. Bias type
36. Carriage type item (barrow type)
37. High poison pesticide (methamidophos, parathion, methyl parathion, Azodrin, oxidation Roxon, isocarbophos, nbspisofenphos-methyl, CARBOFURAN, zinc phosphide, Sodium diphacinone,, diphacinone ketone, Bararat Dethmor Kypfarin Prolin Ratemin, coumatetralyl, bromadiolone, Brodifacoum)
38. Dicofol with DDT as raw material
39. PCP with hexachlorobenzene
40. Lindane production item
41. Saponin (containing water or moisture) production equipment with the annual yield 300 tons (with the exception of comprehensive utilization)

#### V. Information Technology

1. Laser video disk player production line (VCD complete machine products)
2. Simulation CRT black-and-white as well as white TV

#### VI. Steel

1. Coke oven item without supporting dry quenching coke, cock pushing and dust collector in the steel enterprises and water-short region
2. Sintering machine with its volume less than 180 square meters
3. Iron making and blast furnace items such as in-phase coal dust-blowing equipment, dust collector, TRT technology, energy consumption, new water consumption with their effective volume more or less than 1,000 cubic meters which fail to reach the standard
4. Steel converter with its nominal volume less than 120 tons, or more than 120 tons yet failing to be equipped with supporting coal gas recycling, dust collector and energy consumption or new water consumption failure to meet the standard
5. Eel converter with its nominal volume less than 70 tons, or more than 70 tons yet failing to be equipped with supporting smoke gas recycling, dust collector and energy consumption or new water consumption failure to meet the standard
6. Hot rolling strip steel item (special steel excluded) with its width less than 800 mm
7. Hot-galvanized zinc steel plate with its annual yield less than 250,000 tons
8. Colored coating sheet with its annual yield no more than 100,000 tons
9. Ferroalloy thermoelectricity furnace with its volume more or less than 25,000 kva which fails to meet the access demand (among the small hydropower

stations in the middle and western region and the priority poverty reduction area with rich mineral resource , the volume of single electric furnace  $\geq 12,500$  kva)

10. Chrome refractory production line

11. Common and high power graphite electrode production line

12. Ultra-high power graphite electrode production line with its diameter less than 550 mm and its annual yield less than 20,000 tons

13. Production line of carbon block with its annual yield less than 50,000 tons and of carbon electrode with its annual yield less than 40,000 tons

14. Fixed gas producer (fine coal fine coal gasification furnace excluded)

#### VII. Nonferrous Metal

1. Exploitation and smelting of tungsten, molybdenum, tin, antimony and rare earth and antimony oxide, plumber's solder production items (with the exception of alteration items)

2. Blister copper smelting items with its single annual yield 100,000 tons

3. Electrolytic aluminum items (the washout self-baking production replacement items and environmental protection alteration items are excluded)

4. Lead melting items with the annual single yield less than 50,000 tons

5. Zinc melting items with the annual single yield less than 100,000 tons

6. Magnesium melting items (comprehensive utilization items excluded)

7. Secondary aluminum reverberator with its yield less than 40,000 tons

8. Coal-fueled reverberator items in the production of second nonferrous metal by means of

9. Aluminum wet-process fluorination

10. Independent aluminum carbon contents with its annual yield less than 100,000 tons

11. Icon rare earth crude ore soaking technique

12. Secondary lead project with its annual yield less than 10,000 tons

#### VIII. Gold

1. Independent cyanidation items with its daily gold concentrate treatment less than 50 tons

2. Independent gold processing plant with its daily processing capability less than 100 tons and without supporting mining system

3. Pyrometallurgical process Item with its daily processing capability less than 50 tons

4. Independent heap leaching project with its annual processing capability less than 50,000 tons (with the exception in Qinghai-Tibet Plateau)

5. Mining and processing projects with its daily processing capability less than 50 tons

6. Gulch gold mining project with its annual mining capability less than 200,000 cubic meters

7. Gold mining project in forest, farmland and river course

#### IX. Building material

1. Common float sheet glass production line with its non-float and daily melting amount less than 500 tons

2. Architectural ceramics production line with its annual yield less than 1 million square meters

3. Tunnel kiln and sanitary ceramics with its annual yield less than 500,000

4. Cement lime mortar, dry-process kiln, Lepol kiln, wet process kiln; grog new type dry-method cement production line with its daily yield less than 1,500 tons

5. Paper-faced gypsum board with its annual yield less than 20 million square meters

6. Production line of asphalt felt asphalt paper, modified asphalt waterproof

roll production line with its annual yield less than 5 million square meters, asphalt composite flexible waterproof roll production line, Polyethylene polypropylene fibre combined waterproofing roll production line with the polyethylene layer thickness less than 0.5 mm

7. Middle-alkali glass ball production line, platinum crucible pot glass fiber production line

8. Solid clay brick

9. Production line of gypsum (hollow) building block production line with its annual yield less than 150,000 cubic meters, production line of small concrete hollow brick with the single team yield less than 25,000 cubic meters, fixed production line of concrete floor brick with its single yield less than 150,000 cubic meters, artificial light aggregate (ceramic aggregate) production line with its annual yield 50,000 cubic meters

10. Aerated concrete production line with its annual yield less than 100,000 cubic meters

11. Coal slack, shale solid brick production line with its annual yield less than 30 billion standard bricks

12. Rock (mineral) wool production line with its annual yield less than 5,000

#### X. Medicine

1. Vitamin C material items

2. Penicillin bulk drug items

3. Disposable syringe, blood exchange transfusion set, disposable transfusion set

4. Butyl rubber for medical purpose

5. Various formulation and processing capability extension items applied in new medicine and technology (liquid-filling capsule excluded)

6. Production capability extension projects with its material as endangered and rare plant and animal yet without large-scale plantation or breeding

7. Medical products using CFCs as aerosol

8. Mercury-filled glass thermometer

9. Mercury-filled blood-pressure meter

10. Silver amalgam tooth material

#### XI. Mechanics

1. Arms-and-the-below-body drill jumbo manufacture item

2. Rock loader (vertical claw rock loader excluded)

3. Small mining car with its volume no more than 3 cubic meters

4. Winch with the diameter no more than 2.5 m

5. Mine winder with its diameter no more than 3.5 m

6. Sifter with its area no more than 40 square meters

7. Swirler with its diameter no more than 700 mm

8. Coal cutter with its power no more than 800 kw

9. Mine excavator with its bucket volume no more than 3.5 cubic meters

10. Mine mixing, concentrating and filtering equipment (with the exception of rigid type)

11. Agricultural carrier (tricar, low speed carrying vehicle)

12. Single cylinder diesel (with the exception of advanced second-generation single cylinder diesel)

13. Tractor with its power no more than 50 horsepower)

14. Normal coal-fueled steam power plant with its power no more than 300,000 kw (with the exception of comprehensive utilization sets)

15. Electric wire and cable manufacture (with the exception of special extra-high-tension cable with its power no less than 500 kv)

16. Common metal cutting machine tool (with the exception of digital control



machine tool)

17. Common electrical discharge machine (with the exception of digital control machine tool)

18. Common mechanically operated press (with the exception of digital control machine tool)

19. Universal shearing machine, bending machine, tube bending machine

20. Universal high speed steel bit, milling cutter, saw blade, screw tap

21. Sinter and abrasive material such as brown alumina, green carborundum, black silicon carbide

22. Various Bonded grinding wheel with its diameter no more than 400 mm

23. Artificial diamond with its diameter no more than 400 mm

24. Ordinary small ball bearing

25. Dry type resin insulation transformers ranging from 10 to 35 kv

26. High, middle and low tension switch cabinet

27. Universal electric welding rod

28. Civil ordinary watt hour meter

29. Common low grade standard fastener no more than 8.8 grade

30. Piston dynamic compressor with its volume no more than 100 cubic meters

31. Common transport container

32. Screw compressor with its volume less than 20 cubic meters

33. Single stage axially split pump with its volume no more than 56 inches

34. Universal low and middle pressure carbon-steel valve with its capacity no more than 10 megapascal

## XII. Shipping

1. Large civil ship manufacturing facilities not listed in the long plan of national shipping industry (refers to the docks and berth with its width no less than 42 meters and the docks, berth and its supporting facilities with its deadweight ton no less than 100,000 tons)

2. Middle and long term marine diesel engine not listed in national middle and long term plan

## XIII. Light Industry

1. Refrigerating box, refrigerator and refrigerating containers (ice-box) which fail to meet the requirement in the Maximum Allowable Values of the Energy Consumption and Energy Efficiency Grades for Household Refrigerators

2. Washing machine items which fail to meet the requirement in the Maximum Allowable Values of the Energy Consumption and Energy Efficiency Grades for Household Refrigerators

3. Air conditioner items which fail to meet the requirement in the Maximum Allowable Values of the Energy Consumption and Energy Efficiency Grades for Household Refrigerators

4. Low grade paper and card board

5. PVC universal artificial leather production line

6. Ultra-thin plastic bags (with its thickness less than 0.015mm) production line

7. Tanning with its annual yield 100,000 pieces (converted to standard piece)

8. Single coil filament production line with its production speed less than 1,500 per hour

9. Universal medium speed industrial flat bed sewing machine production line

10. Universal medium speed cup seaming machine

11. Electronic price computer scale (its precision 1/3000 less than the maximum weight and its weight no more than 15 kg)

12. Electronic motor truck scale (its precision less than 1/3000 less than the maximum weight and its weight no more than 300kg)



13. Electronic static rail weighbridge (its precision less than 1/3000 less than the maximum weight and its weight no more than 150 kg)
14. Electronic dynamic rail weighbridge (its precision less than 1/3000 less than the maximum weight and its weight no more than 150 kg)
15. Electronic belt conveyor scale ( (its precision less than 5/3000 less than the maximum weight )
16. Electronic crane scale (its precision less than 1/1000 less than the maximum weight and its weight no more than 50 kg)
17. Spring scale ( (its precision less than 1/1400 less than the maximum weight and its weight no more than 8 kg)
18. Two pieces Aluminum pop-top
19. Common vacuum flask glass bottle production line
20. Glass bottle production line with its annual yield no more than 20,000 tons
21. Synthesis aliphatic alcohol (including oxo alcohols, Ziegler alcohol, excluding lipin hydrogenation alcohol)
22. Sodium tripolyphosphate production line with its annual yield less than 30,000 tons
23. Pasted zinc-manganese battery
24. Cadmium nickel Battery
25. Universal lead acid cell open
26. Toothpaste with its annual yield less than 2,000 tons
27. Crude sugar
28. Sea salt item in the north region with its annual yield less than 1 million tons; newly built salt field in the south region; mine (well) salt item with its annual yield less than 600,000 tons; lake salt with its annual yield less than 200,000 tons
29. Liquer production line
30. Alcohol production line (with the exception of ethanol items)
31. Flavor essence production line by employing traditional technique
32. Chemosynthesis sweetening agent such as saccharin

#### XIV. Textile

1. 74-Type dyeing production line

#### XV. Tobacco

1. Cigarette processing items(with the exception of alteration item)

#### XVI. Fire-fighting

1. Fire auto-alarm equipment
2. Fire extinguisher
3. Sodium bicarbonate powder (BC) extinguishing agent
4. Fire door
5. Fire hose
6. Fireplug (indoor, outdoor)
7. Common fire vehicle (can-type one, and special one) items

#### XVII. Others

1. Urban trunk road items with red line width (including green belt) beyond the following standards: 40 meter for small city and important towns, 55 meters for medium-sized city, and 70 meters for large cities (where the trunk road for metropolitan with its population over 2 million is required to exceed 70 meters, it shall be noticed in the whole programming)
2. Tourism and gathering square items for the land use exceeding the following standards: 1 hectare for small cities and important towns, 2 hectares for medium-sized hectares, 3 hectares for large cities, 5 hectares for metropolitan with its population over 2 million
3. Villa-typed real estate development items

4. Golf course
5. Racecourse

### Category III. Washout

Note: The year in the bracket in the items means the time limit that the item shall be eliminated. Where the time limit for washout is 2006, it refers to the item shall be eliminated before the end of 2006, the rest follows the analog; the items with elimination plan shall be eliminated in accordance with the plan; the items without eliminating plan refers to the items that shall be eliminated in accordance with the national industrial policy or shall be eliminated immediately

#### I. Backward Production Technique Equipment

##### (i) Agriculture and Forestry

1. Wet method fiberboard manufacturing technique (2006)
2. Water-dripping method rosin manufacturing technique (2006)

##### (ii) Coal

1. Coal mine constructed in the coal mine range and mine type without the approval from the relevant authority
2. Mine without the mine exploitation permit, safety production permit, business license, mine owner qualification certificate, coal manufacturing permit
3. Various mine within the range of national coal mine (within the scope determined by national coal mine exploitation registration)
4. Coal mine with its single mine annual yield less than 30,000 tons (with the exception of ultra coal layer mine) (2007)
5. High sulfur mines without sulfur reduction equipment as well as qualified release (with its sulfur content more than 3%)
6. High culm production mine (with its culm content more than 40%) that cannot be used on the spot
7. 6AM, M-2.5, PA-3 coal flotation machine
8. PB2, PB3, PB4 coal explosion suppression high voltage switch
9. PG-27 vacuum filter
10. X-1 box filter press
11. ZYZ, ZY3 hydraulic support
12. Wooden support

##### (iii) Electric power

1. Normal condenser coal-fueled thermal power generation units within volume of the used single machine less than 10,000 kw within the range of large grid coverage
2. Small normal thermal power generation units the used single machine less than 50,000 kw
3. Oil-burning boiler and thermal power generation units mainly used for electricity generation (no more than 50,000kw)

##### (iv) Petroleum, national gas and chemical industry

1. Oil and natural gas without the approval for mining exploitation and not in line with national oil and natural gas whole development program
2. Product oil production apparatus without reaching the national standard
3. Small oil refining facilities with its annual yield no more than 1 million tons (2005)
4. Vitriol-making production apparatus by sulfur iron ore with its annual yield 40,000 tons (2005)
5. Bias tyre or tyre production line with natural cotton flat chafer fabric as framework and with its annual yield no more than 500,000

6. Dry method granulation carbon black production apparatus with its annual yield no more than 10,000 tons
  7. Phosphorus yellow production line with its yield less than 1,000 tons
  8. Calcium baking chromium compounds with its single line less than 10,000 tons (2006)
  9. Indigenous methods oil refining
  10. Mercury sodium hydroxide
  11. Furnace of calcium carbide and open furnace of calcium carbide
  12. Furnace of calcium carbide without reaching the standard for release
  13. Ferrous power rebuilding method
  14. Ammonia sodium method and black cyanide technique in the production of sodium cyanide
  15. C<sub>12</sub>H<sub>14</sub>N<sub>2</sub>Cl<sub>2</sub> production technique by means of middle and high sodium method
  16. Package and grouting equipment for pesticide products
  17. Sodium hydroxide by means of graphite anode membrane system
  18. KDON-6000/6600 cold storage flow space division equipment
  19. Coating resin production technique by means of direct heating
  20. CFCs production apparatus (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  21. Production technique with CTC as main material (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  22. All the production techniques with CTC as processing agent (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  23. Fluorine included polymer production technique with CFC--113 as processing agent (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  24. 1,1,1-trichloroethane (methyl) production apparatus for washing (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  25. Methyl bromide production apparatus (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  26. soap element production apparatus with its annual yield less than 100 tons (2007)
  27. Hydrochloric acid acidolysis soap element production technique and soap element production apparatus with its pollutant release failing to reach the standard (2006)
  28. DDT content paint production technique (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
  29. Open dicofol production technique with DDT as its raw material (it shall be eliminated in accordance with the whole requirement of national government's fulfillment of international convention)
- (v) Steel
1. Indigenous method coking plant (including improved coke oven)
  2. Coke oven it's the height of carbonization room less than 4.3 metres (with the exception of tamping coke oven with its height no less than 3.2 meters) (2007, and 2009 in the western region)
  3. Earth sinter

4. Heat sinter
  5. Sintering machine with its area less than 30 square metres (2005)
  6. Blast furnace with its volume no more than 100 cubic meters
  7. Blast furnace with its volume ranging from 100 to 200 m<sup>3</sup> (including 200 m<sup>3</sup>.) (2005)
  8. Blast furnace with its volume ranging from 100 to 300 m<sup>3</sup> (including 300 m<sup>3</sup>.) (2007)
  9. Power frequency and medium frequency induction furnace for producing bar steel, steel ingot and continuous casting billet)
  10. Converter with its volume no more than 10 tons (with the exception of ferroalloy converter)
  11. Electric furnace with its volume no more than 10 tons (with the exception of mechanic mould electric furnace)
  12. Melting steel making
  13. Converter with its volume ranging from 15 to 20 tons (with the exception of ferroalloy converter (2005)
  14. Converter with its volume being 20 tons (with the exception of ferroalloy converter (2006)
  15. Electric furnace with its volume ranging from 10 to 20 tons (with the exception of high alloy steel and mechanic mould electric converter (2005)
  16. Converter with its volume being 20 tons (2006)
  17. Double stand rolling mill
  18. Horizontal wire rod mill
  19. Small vertical wire rod mill
  20. Pack-rolled thin-sheet mill
  21. Common steel blooming mill medium-sized rolling mill used for cogging
  22. Hot rolling narrow strip rolling mill
  23. Three-roll mill
  24. Hot rolling seamless tube unit with its diameter less than 76 mm
  25. Three-roll wire rod mill (with the exception of special steel production (2005)
  26. Metallurgy grate without reaching environmental standard (2005)
  27. Manually operated pitch coke steeping device, mixed bake of crude mineral material and solid material, natural ventilation, (manually operated vertical kiln, and down draught kiln with coal as fuel and its soot purification failing to reach the relevant standard (2005 )
  28. Mining thermoelectric furnace no more than 3,200 k half-close direct current reduction furnace no more than 3,000 kva, refining furnace no more than 33, 000 kva (with the exception such special products as ferro-silicon calcium alloy, electric furnace manganese metal, alpac, calcium silicon, ferrotungsten, ferrovanadium)
  29. Ferroalloy mining thermoelectric furnace no more than 5,000 kva (2005)
  30. Steam heating mix, down-blaze bake furnace, AC graphitizing furnace, graphitizing furnace and parallel machine, graphitizing furnace with its maximum output current 50 kva (2005)
- (vi) Non-ferrous metal
1. Mining project for such nationally protected minerals as tungsten, tin, stibium, ion rare earth without the approval from the relevant authority of the State Council,
  2. Melting projects such as tungsten, tin, stibium, ion rare earth and tungsten processing (including cemented carbide) without the approval from the relevant authorities of the State Council
  3. Zinc melting, production and baking of zinc oxide by employing such



backward facilities as muffle, manger, horizontal can, small vertical can, and dust collection through backward ,simple condensation facility

4. Mercury melting by employing such backward facilities as iron pot, earth kitchen, distillation resort, crucible furnace and simple condensation and dust collection facilities

5. Arsenic oxide and arsenic products refining by means of such backward facilities as pit furnace, crucible furnace, simple condensation dust collection facilities

6. Self baking electrolyte tank

7. Closed blast furnace technique and facilities with the area of the furnace bed no more than 1.5 m<sup>2</sup>

8. Closed blast furnace technique and facilities with the area of the furnace bed ranging from 1.5 to 10 m<sup>2</sup> (2006)

9. Closed blast furnace technique and facilities with the area of the furnace bed more than 10 m<sup>2</sup> (2007)

10. Electric furnace, reverberator copper melting technique and facilities (2006)

11. Coal gas acid-making method purification and hot concentrated acid washing technique

12. "Two-man-show" non-ferrous metal rolling mill (2006)

13. Antimony melting by employing such backward means as pit furnace, crucible furnace and Hertz furnace

14. Lead melting technique and equipments by employing backward means as sintering pot, sintering pan and simply furnace

15. Secondary aluminum and secondary lead technique by means of crucible furnace (2005)

(vii) Gold

1. Amalgamating gold refining technique

2. Small pool soaking, small heap soaking and small melting technique

3. Mining and collection items without the approval from the relevant authorities of the State Council and without gold mine mining letter of ratification

(viii) Building Material

1. Vertical drawing sheet glass production line with no less than six machines

2. Sheet glass horizontal pulling technique production line and case horizontal pulling technique production line with its daily melting volume less than 100 tons

3. Cement mechanics vertical kiln production line with the diameter of the kiln no more than 2.2 m

4. Plastic package for cement without double membranes

5. Low and medium grade architectural ceramics with its annual yield less than 700,000 m<sup>2</sup> and low and medium grade sanitary ceramics with its annual less than yield 200,000

6. Paper face plaster board production line with its annual yield less than 4 million m<sup>2</sup>

7. Modified asphalt waterproof roll production line with its annual yield less than 2 million m<sup>2</sup> (2006)

8. Cement dry method middle-hollow kiln with its diameter less than 2.5 meters (with the exception of those producing cement)

9. Cement grinding equipment with its diameter less than 1.83 meters

10. Soil cement kiln, common vertical kiln

11. Sanitary ceramics, down draught kiln, holed kilns coal-fueled direct fire

tunnel kiln, sagger sanitary ceramics tunnel kiln

12. Friction press used for architectural ceramics
13. Soil lime vertical kiln
14. Argil crucible glass fiber drawing production technique and equipments
15. Such earthen kilns as annular Kilt, roofless less annular Kilt, horseshoe kiln with its amount of tilt less than 18
16. Common brick extruding machine with its type lower than the 400-type
17. 450 type common brick extruding machine (2006)
18. SJ1580-3000 twin shaft, single shaft mixer
19. SQP400500-700500 double roll crusher
20. 1000 type common bar cutter
21. revolver brick press with its volume less than 100 tons
22. artificial wallboard production line
23. Convenient movable type block former, auxiliary vibrant shaper (2005)
24. Concrete brick fixed former, with its single team yield less than 10,000 m<sup>3</sup>, concrete floor brick paving former with its single team yield less than 10,000 m<sup>3</sup>
25. artificial placing, non-mechanically formed plaster (hollow) production technique
26. asphalt paper linoleum production line with its annual yield less than 1 million rolls
27. quartz glass production technique by means of vacuum compression method and one-step technique
28. 6×600 tons hexahedron small presser producing artificial diamond
29. Manual cut, streaming-and pressing-free aerated concrete production line
30. non-mechanical and nonmetal exploitation without mining permit or failing to meet environmental protection and production requirement

(ix) . Medicine

1. Manual capsule filling technique
2. Cork and wax coating medicine technique
3. ampoule drawing filling and sealing machine
4. Tower-typed heavy distilling apparatus
5. hot wind drying box without purification facilities
6. bulk drug production apparatus with the labor protection and disposal of waste gas, water and solids failing to reach national standard (2006)

(x) . Mechanics

1. heat treating lead bath furnace
2. heat treatment barium chloride salt bath furnace (the washout of high temperature barium chloride salt bath furnace shall be deferred temporarily)
3. TQ60, TQ80 tower crane
4. QT16, QT20, QT25 derrick convenient tower crane
5. KJ1600/1220 single roll lifting machine
6. universal brown alumina smelting furnace less than 3,000 kva
7. Carborundum smelting furnace less than 3,000 kva
8. Strong drive convenient elevator
9. tobacco expansion production line with CFCs as expansion agent (it shall be eliminated in accordance with the whole requirement of international convention fulfilled the central government)

(xi) . Light Industry

1. vacuum salt making , lake salt, sea salt in the north with its annual yield no more than 50, 000 tons
2. salt making production apparatus by using mine salt brine, oil gas field water and by means of pan and shallow beach

3. South sea salt production apparatus with its annual yield no more than 10,000 tons
4. tanning apparatus with its annual processing amount no more than 30,000 piece (converted to standard cow skin)
5. printing ink production apparatus with its annual yield less than 300 tons (with the exception of those using high and new as well as pollution-free technology)
6. Carbonic acid beverage production line with its yield less than 100 bottles per minute (its single volume is no more than 250 ml)
7. Chemical pulping production line with its annual yield no more than 17,000 tons
8. Straw pulp production apparatus with its annual yield no more than 34,000 tons (2007)
9. polyurethane foam product with CFCs as vesicant, polythene, polystyrene foamed plastic production technique (they shall be eliminated in accordance with the total requirement of international convention fulfilled by the central government)
10. icebox, deep freezer, automobile air conditioner, industrial and commercial production line for cold preservation, refrigeration with CFCs as vesicant or refrigerant (they shall be eliminated in accordance with the total requirement of international convention fulfilled by the central government)
11. production technique with CTC as detergent (they shall be eliminated in accordance with the total requirement of international convention fulfilled by the central government)
12. production technique with CFC-113 as detergent (they shall be eliminated in accordance with the total requirement of international convention fulfilled by the central government)
13. production technique with TCA as detergent (they shall be eliminated in accordance with the total requirement of international convention fulfilled by the central government)
14. bicycle salt bath welding
15. tin welding technique in printing iron and can-making industry
16. Match stick arranging and discharging production technique
17. Match stick settler, arranger and discharger
18. punching nail machine
19. Strike wire braiding machine
- (xii) . Textile
  1. Spinning frame produced by the founding of the People's Republic of China
  2. all the I-typed spinning frame
  3. A512, A513 series spinning frame produced before 1979
  4. B581, B582 fine spinning frame
  5. BC581, BC582 coarse spinning frame
  6. B591 wool spinning frame
  7. wool spinning frame with its lifetime more than 20 years
  8. B601, B601A wool twisting machine
  9. Cotton roller gin with the length of its roller more than 1,000 mm (with the exception of long lint cotton processing)
  10. Saw tooth cotton gin with the length of its saw blade less than mm
  11. Cotton bailing press with the amount of its pressure below 200 tons (with the exception of short-staple cotton press with amount of its pressure 160 tons)
  12. 1332SD bobbin winder
  13. BC272, BC272B strip combing machine
  14. B701A wool roller

15. B311C, B311C(CZ), B311C(DJ)combing machine
  16. 1511M-105 loom
  17. K251, K251A silk loom
  18. Z114 small jacquard
  19. GE186 patternpile loop machine
  20. Z261 man-made fur weaving machine
  21. LMH551 plate scream printing machine
  22. LMH57 circular screen printer
  23. LMH303, 303B, 304, 304B-160 dyeing machine hot melt
  24. LMH731-160 hot flue clip stenter
  25. LMH722M-180, LMH722D-180 short loop drying and heat setting range
  26. ZD647, ZD721 automatic silk reeling machine
  27. D101A automatic silk reeling machine
  28. ZD681 reeling machine
  29. DJ561 thick silk spinning frame
- (xiii) Printing
1. Entire letter typing technique
  2. Entire letter printing
  3. ZD201, ZD301 type single-letter casting machine
  4. TH1 automatic slug-casting machine.
  5. ZT102 slug-casting machine
  6. ZDK101 matrix cutting machine
  7. KMD101 lead mould stylus holder grinding machine
  8. AZP502 semi transfer Chinese lhand sorting composing machine
  9. ZSY101 semi transfer Chinese composing machine
  10. TZP101 foreign language composing machine
  11. ZZP101 Chinese automatic composing machine
  12. QY401, 2QY404 electric letter printing proofing machine
  13. QYSH401, 2QY401, DY401 manual letter printing proofing machine
  14. YX01, YX02, YX03 hydraulic matrix molding
  15. HX01, HX02, HX03, HX04 matrix dryer
  16. PZB40 flat stereotype casting machine
  17. JB01 flat stereotyping machine
  18. YZB02, YZB03, YZB04, YZB05, YZB06, YZB07 stereotyping machine
  19. RQ02, RQ03, RQ04 lead pump molten furnace
  20. BB01 molding plane
  21. YGB02, YGB03, YGB04, YGB05 circularity stereotyping machine
  22. YTB01 circularity cliché machine
  23. YJB02 stereotyping sawing machine
  24. YXB04, YXB05, YXB302 stereotyping retouching machine
  25. P401, P402 quarto platen press
  26. P801, P802, P803, P804 octavo platen press
  27. PE802 double page printer
  28. TE102, TE105, TE108 sheet-fed two-revolution press
  29. TY201 mono-color folio- cylinder printer
  30. TY401 quarto mono-color- cylinder printer
  30. TY401 quarto mono-color- cylinder printer
  31. TY4201 quarto- cylinder double color printer
  32. TT201, TZ201, DT20 bisect automatic-manual revolution flat press
  33. TT202 bisect automatic-manual revolution flat press
  34. TZ202 bisect automatic-manual revolution flat press
  35. TZ401, TZS401, DT401 quarto manual revolution flat press
  36. TT402, TT403, TT405, DT402 quarto manual revolution flat press



37. TR801 vertical flat-bed print
  38. LP1101, LP1103 plat single page rotary press
  39. LP1201 plat double page rotary press
  40. LP4201 plat quarto double color rotary press
  41. LSB201(880×1230mm)and LS201, LS204(787×1092mm)reel paper rotary press
  42. LB203, LB205, LB403 )reel paper web-fed gravure rotary press
  43. LB2405, LB4405 reel paper double layer web-fed gravure rotary press
  44. LBS201 web-fed gravure rotary press for book as well as newspaper usage
  45. K. M.T automatic metal type composition machine
  46. PH-5 Chinese character typesetter
  47. Cronapress proving press plate making (DIA PRESS cleaner)
  48. Domestic-made press camera produced before 1985
  49. Manual press camera produced before 1985
  50. Centrifuge casting machine
  51. J1101 full page single-color offset machine (with the printing speed no more than 4,000 pages per hour )
  52. J2101, PZ1920 bisect single-color offset machine (with the printing speed no more than 4,000 pages per hour)
  53. PZ1615 quarto single-color offset machine (with the printing speed no more than 4,000 pages per hour)
  54. YPS1920 double face single-color offset machine (with the printing speed no more than 4,000 pages per hour)
  55. W1101 full page automatic photogravure
  56. AJ401 web single page four color gravure press
  57. DJ01 level loading gluing linkage machine
  58. PRD-01, PRD-02 level loading gluing linkage machine
  59. DBT-01 level loading tread staple-package-ironing linkage machine
  60. Solvent painting and coating machine
  61. QZ101, QZ201, QZ301, QZ401 paper cutter
  62. MD103A knife grinder
- (xiv) Fire-control
1. Fire detector manual socket welding electronic parts and components
- XV. Others
1. Cyanogens content galvanization technique (the elimination technique of the rendering technique for galvanized gold, silver, copper base alloy and copper plating shall be delayed temporarily)
  2. Cyanogens content zinc technique
- II. Backward Products
- (i) Petroleum, Natural Gas and Chemical Industry
1. Polychlorinated biphenyl (pesticide)
  2. Nitrofen (pesticide)
  3. Insect disinfestations (pesticide)
  4. Chlordane (pesticide)
  5. Heptachlor (pesticide)
  6. Tetramethylene Disulfotetramine (pesticide)
  7. Fluoroacetamide (pesticide)
  8. Sodium fluoroacetate (pesticide)
  9. Dibromochloropropane (pesticide)
  10. TETRAETHYL DITHIOPYROPHOSPHATE (SULFOTEPP) (pesticide)
  11. Dimecron (pesticide)
  12. Gliftor, 1-(p-chloropenyl)-2, 8, 9-trioxo-5-nitrogen-1-silicon-dicyclo(3, 3)undecane (pesticide)
  13. 107 coating

14. Modified starch coating
  15. Differential fiber coating
  16. Water based coating used for indoor decoration (including used for building and wooden appliance) where the volatile organic substance exceeds 200 gram per liter or dissociate formaldehyde exceeds 0.1 mg/kg
  17. Indoor decoration (including used for building and wooden appliance) where the dissoluble lead exceeds 90 mg/ kg or dissociate formaldehyde exceeds 0.1 mg/ kg , or cadmium exceeds 75 mg/kg or mercury exceeds 60 mg/kg
  18. Indoor decoration dissolvent wooden appliance coating where the content of volatile organic substance exceeds 700 mg/ liter or the content of dissociate cyanic acid ester exceeds 0.7%
  19. Polyvinyl alcohol soluble glass interior wall coating (106 interior wall coating)
  20. Multicolor interior wall coating (the largest share in ester is gun cotton; the solvent is O/W coating, where the most share is xylene)
  21. Chloroethylene- PVDC exterior wall coating material
  22. Tar-type polyurethane waterproof coating
  23. Water-based PVS tar waterproof coating
  24. Polyvinyl alcohol and its acetal interior and exterior wall coating
  25. Poly acetic acid ethylene latex exterior wall coating (including EVA latex)
  26. PVS architectural waterproof seaming material (tar)
  27. Benzidine and zenzidine azo dye
  28. Soft-margin bicycle tyre
  29. DDT (it shall be eliminated in accordance with the whole requirement of international conventional fulfilled by the central government)
  30. Hexachlorobenzene (it shall be eliminated in accordance with the whole requirement of international conventional fulfilled by the central government)
  31. Dechlorane mirex (it shall be eliminated in accordance with the whole requirement of international conventional fulfilled by the central government)
- (ii) Railway
1. C50 flat car
  2. P50 boxcar
  3. N60 flat wagon
  4. G50 light tank truck
  5. Dongfeng 1,2, and 3 type diesel locomotive
- (iii) Steel
1. Bar steel produced ,steel ingot or continuous casting billet by power frequency furnace and middle frequency furnace as well as the refined products hereby
  2. Hot rolling silicon steel sheet
  3. 25A hollow steel window
  4. I grade deformed bar (2005)
- (iv) Nonferrous Metal
1. Copper rod (black rod)
- (v) Building Material
1. GRC hollow slat produced by using non- alkali fiber or non-low-alkali cement
  2. Pot clay drawing fibrous glass reinforced plastic
  3. 25A hollow steel window
  3. S-2 concreted tie
  5. Urinal with the single amount of wash water more than 9 liter
  6. Hornblende amphibole asbestos (i.e.ACM)

7. Common double pane and single chamber structured plastic windows and doors and
8. Polyethylene compound waterproof roll, cotton glass fiber grid (high alkali) compounded tyre,  
PVC waterproof roll(S type)
- (vi) Medicine
  1. Lead and tin ointment tube
  2. Ampoule used for injection solution package
  3. Natural rubber plug for ,medical use (of the injection: penicillin for injection (sodium salt, sylvite ) basic transfusion sets shall be eliminated immediately, the time limit for other large volume injection shall be the end of 2005)
  4. Straight neck ampoule
- (vii) Mechanics
  1. T100, T100A bulldozer
  2. ZP-II, ZP-III dry type concrete injector
  3. WP-3 excavator
  4. Fluid power rock grab with the volume less than 0.35 m<sup>3</sup>
  5. Chum
  6. Y-40 oil rig
  7. Water-gas set with its diameter being 1.98 meter
  8. CER bellows
  9. Thermocouple (its grade divisions are LL-2, LB-3, EU-2, EA-2, CK)
  10. Resistance thermometer sensor (its grade divisions are BA, BA2, G)
  11. DDZ-I electronic control system operating signal
  12. GGP-01A belt weighter
  13. BLR-31 load sell
  14. WFT-081 radiation pyrometer
  15. WDH-1E, WDH-2E photoelectric transmission meter
  16. BC series differential pressure gauge with single wave
  17. LCH-511, YCH-211, LCH-311, YCH-311, LCH-211, YCH-511 ring-type differential pressure gauge
  18. EWC-01A strip-chart electronic potentiometer
  19. PY5 digital thermometer
  20. XQWA bar-style self-balancing indicator
  21. ZL3 type X-Y recorder
  22. DBU-521, DBU-521C liquid level transmitter
  23. JO2, JO3 small asynchronous motor
  24. JD02, JD03 variable speed three-phase asynchronous motors
  25. YB explosion-safe three-phase asynchronous motors (frame number: 63—355mm; voltage: no more than 660v)
  26. DZ10 series moulded case circuit-breaker
  27. DW10 series frame breaker
  28. CJ8 series AC contactor
  29. QC10, QC12, QC8 series starter
  30. JR0, JR9, JR14, JR15, JR16-A, B, C, D series thermo relay
  31. Motor drive rotary DC arc welder whole series
  32. Medium frequency coreless induction melting furnace in GGW series
  33. B type BA type series single-stage single-suction centrifugal pump
  34. F type single stage corrosion-resistant pump series
  35. GC type low pressure boiler feed pump
  36. JD type major axis deep well pump
  37. KDON-3200/3200 cold storage low pressure flow air-separation equipment

38. KDON-1500/1500 cold storage (tube type) low pressure flow air-separation equipment
  39. KDON-1500/1500 tube plate low pressure flow air-separation equipment
  40. 3W-0.9/7 (ring valve) air compressor
  41. C620, CA630 common lathe
  42. X920 key seat milling machine
  43. B665, B665A, B665-1 shaping machine
  44. D6165 EDM shaping machine
  45. D6185 EDM shaping machine
  46. D5540 electrical impulses
  47. J53-400 double disk friction press
  48. J53-630 double disk friction press
  49. J53-630 double disk friction press
  50. Q11-1.6×1600 guillotine shears
  51. Q51 crane truck
  52. TD62 fixed belt conveyer
  53. Underground milling electric locomotives with the 3 ton direct current elevated line
  54. A571 single-beam crane
  55. 4146 diesel machine
  56. High speed circuit breaker: DS3-10, DS3-30, DS3-50(1000, 3000, 5000A), DS10-10, DS10-20, DS10-30(1000, 2000, 3000A)
  57. BX1-135, BX2-500 AC arc welder
  58. AX1-500, AP-1000 direct current arc welding motor generator
  59. SX series box-type resistance furnace chamber
  60. Single-phase watt-hour meter: DD1, DD5, DD5-2, DD5-6, DD9, DD10, DD12, DD14, DD15, DD17, DD20, DD28
  61. SL7-30/10~SL7-1600/10, S7-30/10~S7-1600/10 distribution transformer
  62. Knife switch: HD6, HD3-100, HD3-200, HD3-400, HD3-600, HD3-1000, HD3-1500
  63. Boiler-feed pump: DG270-140, DG500-140, DG375-185
  64. Thermo power steam trap: S15H-16, S19-16, S19-16C, S49H-16, S49-16C, S19H-40, S49H-40, S19H-64, S49H-64
  65. Vertical hose fixed fire grate boiler (double deck fixed fire grate boiler excluded)
  66. Dynamic reciprocating compressor : 1-10/8, 1-10/7 type
  67. High pressure centrifugal ventilator: 8-18 and 9-27 series
  68. X52, X62W 320×150 elevating stage milling machine
  69. J31-250 mechanically operated press
  70. TD60, TD72 fixed belt conveyer
  71. Agriculturally carrier (in production and in sale) with single cylinder diesel as power which is not fixed with fuel limiter (referring simply to oil limiter)
  72. E135 double stroke medium speed diesel engine (including such three types of cylinders as 2, 4, 6 )
  73. TY1100 type single cylinder vertical water cooling spraying diesel machine
  74. 165 single cylinder horizontal water evaporation cooling and mixing chamber diesel machine
  75. Illegally altered vehicles and their life time has finished
- (viii) Light Industrial Products
1. Mercury battery (mercuric oxide galvanic cell and battery and zinc mercuric oxide cell)
  2. Disposable foamed plastic dishware



3. Direct release gas water heater
  4. Potassium dichromate content match
  5. Spiral lifting (cast iron) water exit
  6. Aniline ink used for gravure
  7. Water intake lower than the overflow outlet and upward urinal water tank fittings
  8. Cast iron break valve
- (ix) Textile
1. H112, H112A sectional warper
  2. B751 wool ball forming mill
  3. 1332 series bobbin winder
- (x) Fire Fighting
1. Difluorochlorobromomethane (referring simply to twelve eleven) (2005)
  2. Bromotrifluoromethane (referring simply to thirteen 0 one) (2010)
  3. Convenient fire extinguisher
  4. Portable type fire extinguisher (2005)
  5. Cart type 1211 fire extinguisher (2005)
  6. Portable type chemical foam fire extinguisher
  7. Portable type alkali acid fire extinguisher
- (xi) Others
1. 59, 69, 72, TF-3 type gas mask

