



FOREIGN TRADE

OF THE DEMOCRATIC PEOPLE'S REPUBLIC OF KOREA

JUCHE 103
(2014)

4

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Haeju Port

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System of the Intellectual Property Rights and Trade in Technology in the DPRK



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head of the trade
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National Economy

At present the system of the intellectual property rights in the DPRK is developing as days go by in keeping with the world trend.

Today when the world has entered the IT age, its government gives importance to technology than ever before.

The scientific and technological competition being waged fiercely requires urgently all countries to develop their own science and technology.

That is why the government of the DPRK exerts great efforts to the work of introducing advanced technology while increasing investment in the sectors of science and technology.

The DPRK proclaimed laws on intellectual property rights such as the law on invention, the law on trademark, the law on industrial design, the law on copyright and the law on naming the origin long ago, and has protected and encouraged inventions.

It joined WIPO (World Intellectual Property Organization) in 1974, and acceded to several international conventions and agreements such as the Madrid agreement on the protection of trademark and international registration, the Paris convention on the protection of industrial property rights, the treaty on patent cooperation and the Lisbon agreement on the protection of art and literary works, and is implementing them in good faith.

Recently Moranbong, Pyongyang, Ryongsan, Taedonggang, Oun and other patent and trademark offices have opened to legally protect and encourage patented technologies.

The expansion of economic exchanges and cooperation with many other countries is diversifying trade forms and methods like production trade, processing trade, service trade and technology trade.

Noteworthy is that exchanges of intellectual products and latest technological products are getting brisk, thus expanding the scope of trade in technology.

This is because with the latest technological sector rapidly developing, many countries are directing efforts to exchanges of and cooperation in intellectual products and latest technological products.

At present the DPRK is stepping up the building of a thriving

nation by bringing about a fresh change in the development of science and technology.

It has set the goal of becoming a scientific and technological power by raising its science and technology to the world standards at the earliest date on the basis of the achievements gained in the space and national defence sciences, and has achieved wonderful successes in many sectors of the economy.

Its economy as a whole is getting a new industrial structure which relies on the results of the latest technology.

Many companies orientate their business strategy to trade in technology and to production and export of latest technological products.

The Pyongyang IT General Trading Corporation, Korea Sinhung IT Agency, Korea Taeyang IT Agency, Korea Kanghung Technological Trading Corporation and many other enterprises have built bases for the development of intellectual products and technology trade and are increasing investment in them.

What is noteworthy here is that technology trade is taking place in the field of programming, machine-building and electronics industries, biochemistry and pharmaceutical field.

New technology centres are being inaugurated in many companies, and the national exhibition hall of intellectual products and technology markets offer latest technology service and transfer and concession of technology so as to develop exchanges and cooperation within the country as well as with many other countries.

The programming sector is gaining momentum.

Orders and joint development and research are being undertaken widely in and out of the country for such programs as 3-D architectural designing program, multilingual translation program, letter and speech recognition program and general accounting program.

CNC machine tools, stepless reduction gear, diamond crown and cast iron cold-welding rod without nickel plating in the machine-building, electronics and metallic materials fields have been patented, and LED, solar battery, solar water heater and other latest technological products have been produced for the building of a green industry.

The cultivation and processing technology of Kaesong Koryo insam, Hyolgungbullojong (Royal Blood-Fresh), immuno-regulation polysaccharide Jangmyong and many other locally patented products have obtained patent in many countries and are being exported in large quantities.

Today the DPRK is making a rapid progress in the transfer, concession and introduction of technologies of intangible intellectual products made by people's creative mental labour and other forms of trade in technology, like development of technology and products and contract on technology service.

In future technology trade will claim a lion's share in the foreign trade sector of the DPRK and more companies will pay great attention to it.

Law of the DPRK on Contractual Joint Venture

Adopted by Decision No. 18 of the Standing Committee of the Supreme People's Assembly on October 5, Juche 81 (1992), amended by Decree No. 464 of the Presidium of the Supreme People's Assembly on February 26, Juche 88 (1999), amended by Decree No. 780 of the Presidium of the Supreme People's Assembly on November 30, Juche 93 (2004), amended by Decree No. 1774 of the Presidium of the Supreme People's Assembly on May 23, Juche 95 (2006), amended by Decree No. 2367 of the Presidium of the Supreme People's Assembly on September 26, Juche 96 (2007), amended by Decree No. 2688 of the Presidium of the Supreme People's Assembly on April 29, Juche 97 (2008), amended by Decree No. 2842 of the Presidium of the Supreme People's Assembly on August 19, Juche 97 (2008), and amended by Decree No. 1992 of the Presidium of the Supreme People's Assembly on November 29, Juche 100 (2011)

Article 1 (Objective)

This Law is enacted for the purpose of promoting and expanding economic and technical cooperation and exchange with foreign countries through contractual joint venture.

Article 2 (Parties to investment)

Institutions, enterprises and organizations may establish contractual joint ventures with foreign corporate bodies or individuals subject to the approval of the investment management organ. Contractual joint ventures shall be set up mainly in the production sector.

Article 3 (Priority sectors)

The State encourages contractual joint ventures in the projects that introduce high technology or modern equipment, and in the sectors that manufacture internationally competitive goods.

Article 4 (Prohibition, restriction)

Contractual joint ventures shall be prohibited or restricted in the projects that violate environmental protection criteria, export natural resources, and the projects that are economically and technically outdated or of low economic efficiency.

Article 5 (Preferential treatment)

The State shall grant preferential treatment such as reduction or exemption of tax, favourable conditions of land use and preferential bank loans to the contractual joint-venture enterprises in priority projects or those to which overseas Koreans are parties.

Article 6 (Application, approval)

An investor that wishes to set up a contractual joint venture shall, after concluding a joint-venture contract, submit to the investment management organ an application to that effect, accompanied by a copy of the contract, the articles of association and a feasibility study report.

The investment management organ shall examine the application within 30 days of receipt thereof, and either issue a

license or send a notice of rejection with the reasons thereof stated.

Article 7 (Registration)

The investor shall, within 30 days of obtaining the approval, be registered with the people's committee of the province (or municipality directly under the central authority) where the enterprise is to be located or the management organ of the special economic zone. Registration for tax purposes and customs shall be made within 20 days of registration with the people's committee of the province (or municipality directly under the central authority) or the management organ of the special economic zone.

Article 8 (Business license, inaugural date)

A contractual joint-venture enterprise shall obtain a business license not later than scheduled inaugural date. The date of receipt of a business license issued by the investment management organ shall be the inaugural date of the business concerned.

Article 9 (Business category)

A contractual joint venture enterprise shall carry on business within the limit of approved business category. Where the business category is to be changed or extended, approval thereof shall be obtained from the investment management organ.

Article 10 (Transfer of share of contribution)

A joint-venture partner may transfer his share of contribution to a third party. In this case consent of the other partner and approval of the investment management organ shall be secured.

Article 11 (Employment)

A contractual joint-venture enterprise shall employ the labour of the DPRK. Technicians and skilled workers for special jobs may be employed from foreign countries, with notification thereof made to the investment management organ.

Article 12 (Customs duties)

Where a contractual joint-venture enterprise imports materials for its production and business operation or exports the goods it has produced, customs duties shall not be imposed. Customs duties shall, however, be payable in case the goods for which customs duties were exempted are sold in the DPRK territory.

Article 13 (Insurance)

A contractual joint-venture enterprise shall, if it so wishes, take out the insurance policy of an insurance company in the DPRK. Compulsory insurance shall be taken with the company designated by the central insurance guidance organ.

Article 14 (Redemption of investment, profit distribution)

The redemption of investment to the foreign investor shall be made mainly in terms of the goods produced by the joint-venture enterprise. Profit shall be distributed in a manner agreed upon by the partners in the contract.



World-Class Magnesite Production Base Taehung Youth Hero Mine

The Taehung Youth Hero Mine located in the Komdok area in the northeastern part of Korea is known as a lump of ore and money for its deposit of 5 200 000 000 tons.

Supposing the mine extracts 5 000 000 tons annually, it will take one thousand years to extract all of the deposit; the mine is a promising, young one.

As the deposit of the mine is a mesothermal deposit under Puk Stream, Machonryong Rock Series, not only magnesite but also hundreds of millions of tons of white talc, chlorite, arsenic, red granite and agate are deposited in the mine.

The mine has Puktu open-cast and Muhakdong underground workings, as well as magnesia clinker and hard-burned magnesia production bases.

It is furnished with large-size drilling rig, hydraulic excavator, heavy-duty bulldozer, heavy-duty truck, extra-large crusher, long-distance conveyor belt

and other equipment needed for mass mining, mass shooting and mass transport.

By developing and introducing open-cast and underground sequential mining system and building rolling shafts by the sublevel and stops cutting methods, the mine is radically increasing ore production.

It also turns out the Juche-based magnesia clinker without using coking coal on the basis of scientific and technological achievements and egg coals.

It enhances the role of the technical research teams including second- and third-stage hard-burned magnesia processing research institute while training technical personnel at the Taehung College of Technology and skilled workers training school in a planned way.

While hastening modernization of the Puktu





open-cast working which has a rich deposit and contributes to the development of the national economy by boosting magnesia clinker and hard-burned magnesia production, the mine is putting a great effort to exporting them to many countries.

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Diversification of Business Activities

The Korea Osandok Trading Corporation situated in Hoeryong, North Hamgyong Province, conducts business activities, backed up by its affiliated production bases which

are fed with locally available underground and forest resources. Including a white apricot processing factory, earthenware factory, footwear factory, wood processing factory and exports processing factory.

The white apricot processing factory turns out over 20 kinds of foodstuffs such as canned white apricot, white apricot jelly and white-apricot seed liquor. White apricot is one of the three local specialties of Hoeryong.





Earthenware products, another specialty of Hoeryong, are famous in the sector of handicraft. Jar, *sinsollo* (chafing dish), flower vase and others produced by the factory have a good effect on human health as they are made with natural earth.

Unlike ceramics, they are coloured with natural muddy water, and their

deep blue streaming-down patterns on brown, yellow, red yellowish brown and dark pink grounds attract the attention of experts for their beauty that can be rarely found even in ceramic works.

Besides, high-grade products made by processing metallic and non-metallic minerals, grassworks and agricultural produce are included in the principal export items of the corporation.

Inaugurated in Juche 93 (2004), the trading corporation is activating joint venture with foreign partners pursuant to the developing reality and has established the Olong, Osan Nanhu, Osan Chuntian joint venture companies. It also engages in garment processing and service business.



While increasing the effectiveness of investment and expanding the exports production bases and items, the Korea Osandok Trading Corporation strives to promote economic cooperation and exchanges with other countries.

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Korea Celadon Earns High Praise

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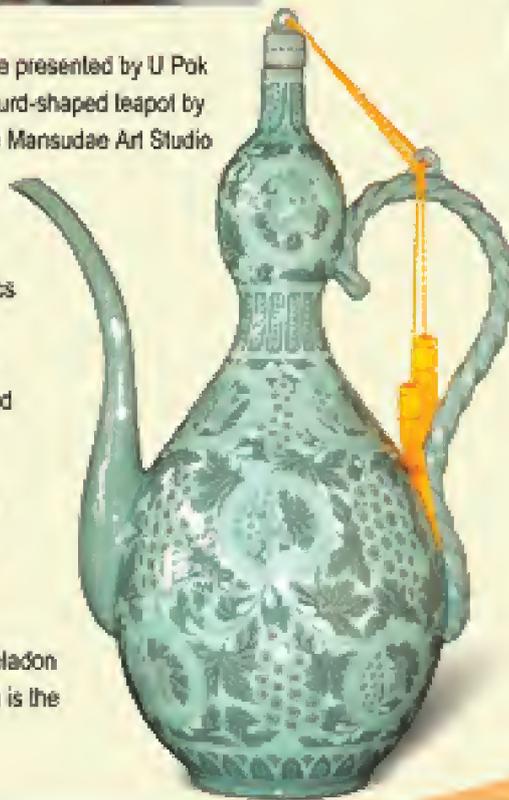


The carp-patterned openwork vase presented by U Pok Dan and the grape-patterned and gourd-shaped teapot by Merited Artist U Chol Ryong from the Mansudae Art Studio were awarded the top creation prize and bronze prize for ceramics, respectively, at the 2014 Shanghai International Ceramics Expo.

Bright, elegant, soft and yet deep Korean celadon from the Koryo period enjoys worldwide fame for their high level of craftsmanship.

The elaborateness, elegance and beauty of Koryo celadon which has a long tradition have attained the acme of perfection.

Visitors of the expo extolled the celadon works, saying that the Koryo celadon is the best in the world.



Refractory Production Centre Tanchon Magnesia Factory

The Tanchon Magnesia Factory is a fireproof materials production centre which has put an end to its previous production system that depended on foreign countries, and manufactures magnesia clinker, hard-burned magnesia and various other goods by using anthracite abundant in the DPRK as fuel.

The factory with over 1 000 000-t production capacity covers an area of hundreds of thousands of square meters and operates all the production processes ranging from feeding raw-materials from stock dump and baking to releasing under an integrated production commanding system by computer.

While boosting the production of magnesia clinker and hard-burned magnesia, the factory mass-produces high-grade magnesia clinker at the electric fusing production centre.

The electric melted magnesia clinker whose MgO is over 96%, SiO₂ under 1.2%, CaO 1.5%, Fe₂O₃+Al₂O₃ 1.5% and bulk density 3.47g/cm³ is in great demand not only in the ferrous metallurgical industry but also as a special refractory for manufacturing

high-temperature and precision materials.

Hard-burned magnesia produced by the factory is effectively used in the production of building materials, rubber and paper, as well as in the pharmaceutical industry and agriculture.

In order to raise the efficiency of calcining kilns, the factory has built a production base of egg anthracite for gas generator and an agglomerate production base for completely treating ore dust.



It also produces coloured roofing tiles of high quality with by-products of magnesia clinker and hard-burned magnesia and 50-kg and 1-t plastic bags to improve the standard of packaging.

Goods made with by-products of magnesia clinker and hard-burned magnesia are widely exported to many countries while contributing to the development of the national economy of Korea.

The factory is exerting a great effort to modernizing the production processes like

Korea Ryongbong Trading Company



building a modern production base of magnesia-carbon bricks, separating oxygen and introducing gas into baking kilns so as to raise proportion of second- and third-stage processed products.

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The Korea Ryongbong Trading Company inaugurated by the National Patent Agency of the DPRK is a development and dissemination base of technology.

Its basic mission is to develop new products, popularize and introduce intellectual products patented at home and abroad in several sectors, mediate between developers and customers and legally guarantee economic and technological problems.

The company, consisting of scientists, technicians and researchers possessed with the latest science and technology, has a database of technologies and products invented at home and abroad.

Many intellectual products such as infrared remote supervisory system, health food in the 21st century—spirulina, medium-frequency induction furnace, remote portfire, humic acid composite bio-promoter, water saver which were invented by the centre have been introduced in many sectors, proving their worth.

The company is undertaking brisk exchanges at an exhibition hall of intellectual products.

Displayed in the exhibition hall are hundreds of intellectual products such as scientific and technological achievements, inventions and technical know-how which have won patent or licence in the software, machine-building, electronics, building-materials, light industry, public health and several other sectors.

The exhibition hall offers such services as technology transfer, entering into contract for technology introduction and development, for products development and for technological service, technological consultation, legal advice and selling relevant products on commission.

On the basis of achievements of rapidly-developing science and technology, the Korea Ryongbong Trading Company pays great attention to expanding exchanges in intellectual products and cooperation with many countries.

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Blood-Purifying Products

Blood-purifying products purify blood and keep human physical functions in a normal state by exposing the skin to the polarized light emitted from a specially cut gem. They have special effects on the prevention and treatment of ischemic cerebral and cardiac diseases and other diseases of the circulating system, insomnia, feeling of uneasiness caused by geomagnetism and diabetes. No negative influence on the body has been reported.

Caution: Patients with chronic and congenital haemophilic diseases must not wear the products one week before and three days after medical operation.

Korea Economy Trade Information Company

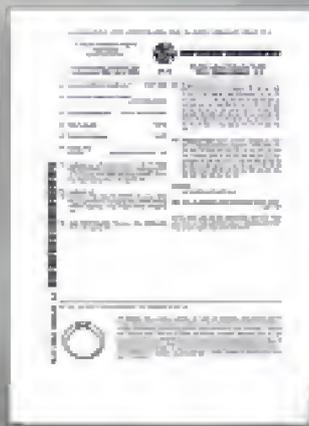
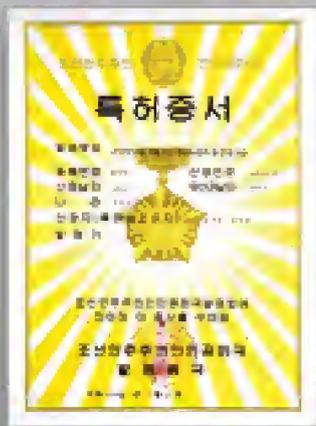
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Korea Myohyang Tianhao JV Company

Korea Myohyang Tianhao JV Company is a joint venture company which exports cosmetics by relying on a cosmetics production base.

All the production processes for functional cosmetics like soap, cream and lotion are arranged in an assembly line, and germ-free and dust-free and anti-

humid environment is thoroughly guaranteed in production.

The company exerts a great effort to the development of new products and strives to make its products popular one.

Mirae-brand cosmetics from the company are natural functional cosmetics made mainly of world-famous Kaesong Koryo Insam and wild honey and extracts of natural herbs as well.

They activate the functions of skin cells to retard skin aging and enhance whitening effects, thus helping preserve fair and sleek skin.

They have obtained quality certification from France, China, Russia and other countries and are very popular in these countries

The cosmetics, promising the beauty of the future, are being exported to various countries while actively contributing to the life of the Korean people.





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Kumgang

Features:

-Smooth handlebar

-Swift start



Technical specifications:

Fuel consumption 2.7lit/100km

Max. speed 120km/h

Motorcycle

Starting

-Powerful driving force



Kumgang Motorcycle JV Company
Add: Mangyongdae District, Pyongyang, DPR Korea
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International Rail Transport JV Company



The International Rail Transport JV Company, inaugurated on June 7, Juche 103 (2014), specializes in transporting freight through railways between Korea and China, manufacturing, selling and repairing wagons and selling materials needed for repair and accessories.

The company organizes and controls in detail export and import through the Sinuiju Youth Railway Station so as to accurately carry international freight in time and guarantee successive transport by open, covered and flat wagons.

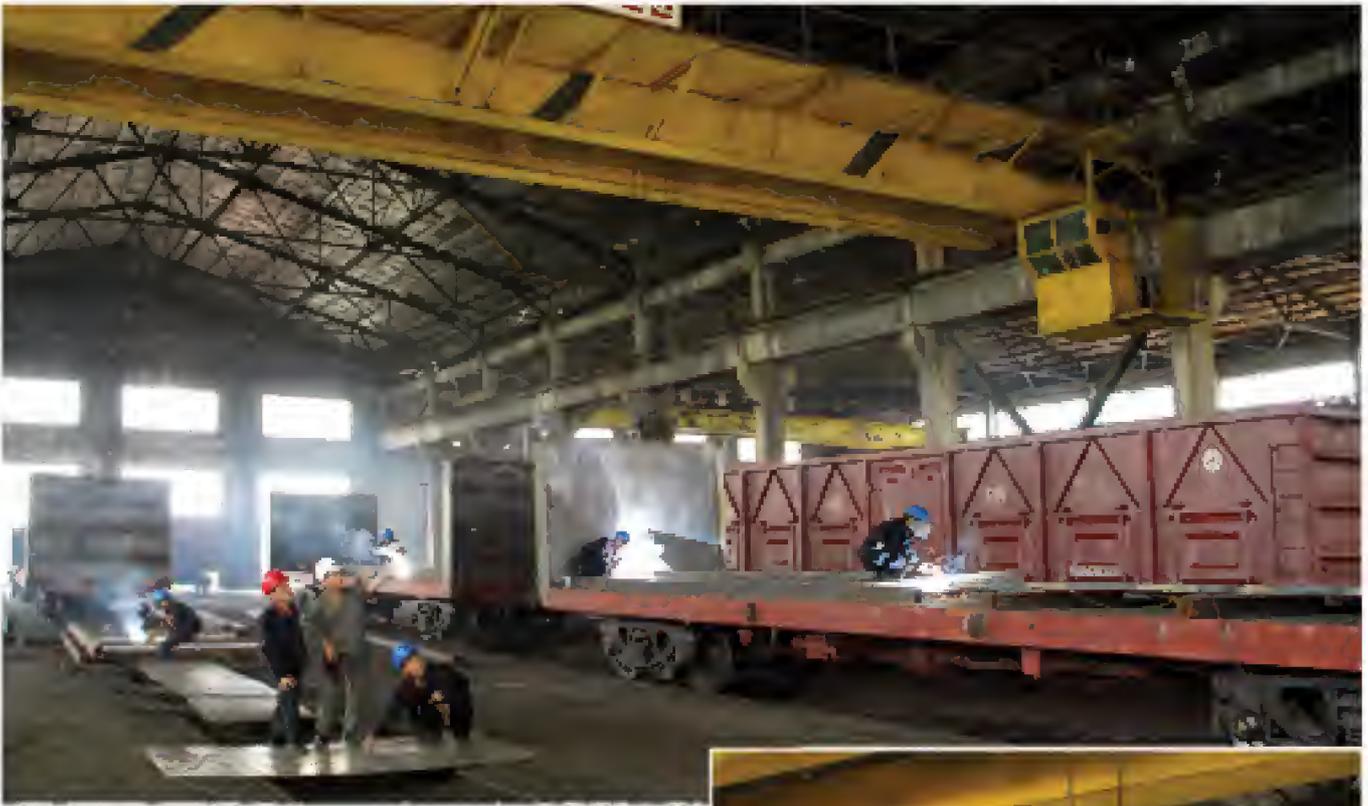
It manages the locomotives and wagons technically and responsibly, thus ensuring accident-free running.

The international freight yard situated in the Sogho Youth Railway Station has several access lines, locomotives and a depot and sheds whose capacities are tens of thousands of tons.

At the yard the loading and unloading equipment like a gantry crane and rolling stocks load and unload freight correctly and accurately.

The company has built wagon production and repair bases in a far-sighted way to turn out wagons on a normal footing and improve the technical status of export and import wagons.





The demand for 60t-class open wagons and other wagons, materials needed for repair and accessories manufactured by the company are on the increase as days go by.

Composed of the competent economic management officials, the International Rail Transport JV Company actively contributes to the modernization of railways and building of a thriving country by means of forward-looking enterprise and business strategy while firmly consolidating the transportation system and material and technological foundations in the transport sector.

International Rail Transport JV Company

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Towels on the World Standard

The Sariwon Daesong Towel Factory situated in Sariwon, North Hwanghae Province is a long-standing export production base affiliated to the Korea Daesong General Trading Corporation.

The factory has developed into one with large production capacity through sustained technical renovation.

Towels produced by the factory have been exported to various countries while actively contributing to the improvement of people's standard of living.

All the production processes ranging from winding, doubling and weaving to finishing are equipped with modern machinery





and controlled and operated by an integrated production command.

The factory fully provides itself with raw materials according to quality and size of towels so as to weave them in various forms for various purposes and gives priority to enhancing their quality.

Its products including handkerchief, bath towel, face towel and bed towel are winning popularity among the consumers for their beautiful pattern and high quality.

While raising the quality of towels onto the world standard as demanded by the world trend of making the industry intensive and multilateral, it exerts great efforts to expanding the export production bases specializing in garments and other items.



Korea Daesong General Trading Corporation

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Dried Flowers

Dried flowers are made with beautiful and popular flowers like rose, carnation, lily, tulip and wild herbs like day lily and foxtail by special processing methods including steric and compressed drying and colouring. Demand for floral baskets, vases, decorations and stuffed specimen made with dried flowers is getting greater as days go by.

The Pyongyang Floral Institute has set up a laboratory for dried flower products and a processing factory and is developing exchanges and cooperation with China, Cambodia, Russia and various other countries.

Korea Arirang Trading Corporation

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Health Food in the 21st Century

Spirulina

Spirulina, a blue-green algae used by human beings for a long time, has emerged as a source of foodstuff and latest bio-material in the 21st century for the 60-65 % of protein and natural physiological activators in it.

The DPRK with favourable natural and geographical conditions for its growth has developed and perfected the spore breeding and production method for the industrial production of spirulina and introduced it in foodstuff manufacturing.

Condiments, confectionary, beverage and other health food made with spirulina have obtained patents.

100g of spirulina contains:

Protein	60-65g
Fat	5-7g
Fibrin	2-4g
Carbohydrate	15-20g
Water	2-5g
Ash	6-8g
Polysaccharide	2-3g



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Pyongyang Essential Oil Trading Company

The Pyongyang Essential Oil Trading Company is a company which produces various kinds of essential oils at a comprehensive mixed essential oil production base and sells them.

It manufactures essential oils for food and industrial purposes and several kinds of perfumes.

The essential oils including those extracted from apple,

strawberry, peach, butter and vanilla are greatly contributing to the foodstuff industry and cosmetics production. Body spray, air freshener and perfume for car are popular articles for their quality and variety in their packaging.

At the analytical laboratory and room for developing new articles furnished with the latest equipment, experts are making an effort to raise the quality of products.





The company is paying great attention to further developing the essential oil industry of the country and producing more products competitive in the world market.

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Pukkuk-song Refrigerator Car



- Strong motor power - Small in



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fuel consumption - Strong body

Nano-Gold Injection



Nano-gold injection is red gold colloid solution produced by nanozing gold of over 99.9 % purity by means of cutting-edge technology.

The injection enhances the immune functions of the body, recovers the destroyed electrolyte balance in cells caused by diseases and thus improves self-healing power and enables diseases heal of themselves.

The natural bioactivator of the injection which raises the degree of disperse stability of the nano-gold particles heightens the pharmaceutical action, and its infinitesimal gold particles spread throughout the body soon after being injected, thus proving a remarkable medicinal effect of gold.

Because of its strong action of enhancing the immune functions, the injection is highly efficacious for the prevention and treatment

of SARS, new-type flu, bird's flu and other diseases such as fatty liver, hepatitis, diabetes, rheumatic arthritis, cancer, neuralgia and arteriosclerosis.

Treatment course: 2-4 weeks for raising immunity and treating diabetes.

1-3 weeks for neuralgia and rheumatic arthritis.

Dosage: 1-2 ampoules, twice a day by intramuscular injection.

No side effects and contraindications.

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Nosam Anti-Cancer Injection

Nosam (*Sophora angustifolia*) Anti-cancer Injection is a Koryo medicine prepared from efficacious elements extracted from *Sophora angustifolia* and *Aralia shoots*.

It is used alone, or with other synthetic anti-cancer medicines for the treatment of gastric, lung, bladder, liver, breast and colon cancers, malignant lymphoma and other tumorous diseases.

Unlike other synthetic anti-cancer medicines, this injection can be used for a long time and no treatment period is prescribed.

While preventing cancer, it has a great effect on the treatment of other diseases like chronic hepatitis, liver

cirrhosis, atrophic gastritis, mastopathy, hysteryomyoma and cystitis.

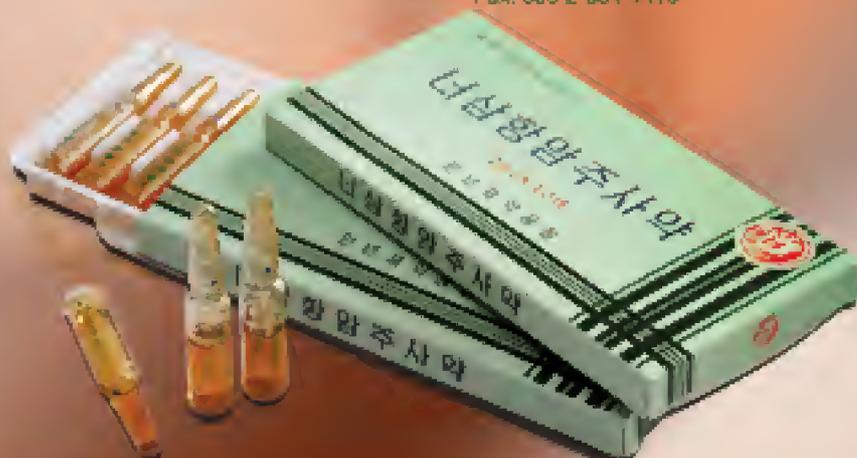
Dosage: one ampoule, 1-2 times a day, by intramuscular injection.

National Patent Agency of the DPRK

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Trade Port on the West Sea of Korea

Haeju Port

The Haeju Port situated in Soae-dong, Haeju, South Hwanghae Province, is a trade port which plays a pivotal role in marine transport.

The port with capacity of over one million tons of cargo handles ores, fertilizers and marine products.

Equipped with loading and unloading equipment such as quayside crane and conveyor belt which accurately and timely load and unload many kinds of cargo, it has depots and sheds that can store tens of thousand tons of cargo.

There is a wharf where cargo vessels of 20 000-ton class and thousands of ton class can be tied up at one time.



The port has access railways and locomotives and is composed of several teams including teams for handling imports and exports, land transport, marine transport and managing cargo.

Stationed in the port are customs, quarantine and other offices for the necessary procedure for export and import. The port also has a seamen's club which can accommodate hundreds of persons.

While firmly consolidating its material and technological foundations through long-term technical innovation, it exerts great efforts to handling greater amounts of cargo on the basis of scientific business strategy.

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Korea Chongjin Susongchon JV Company

The Korea Chongjin Susongchon JV Company was organized in Juche 85 (1996) by the concerted efforts with and investment by Yanbian Haihua Export & Import Co. Ltd., China.

The company has adopted it as its business strategy to expand the export potential to the maximum by relying on the domestic raw and other materials and actively contribute to the building of an economic power and the improvement of people's livelihood.

Its main export items are diverse kinds of PVC pipes for water supply and drainage and PVC couplings that are in great demand.

The company has also set up a silicon base with a large production capacity which is fed with high-grade white quartzite rich in deposits, and turns out and exports high-purity silicon to other countries.

In the future the company will boost the exports production by making an effective use of the productive potentiality which it has already laid out and further promote trade relations on the credit-first principle.

Korea Chongjin Susongchon JV Company
Add: Chongjin, North Hamgyong Province, DPR Korea
Fax: 850-2-381-4410, 4416





Royal Body-Fresh

Royal Body-Fresh is a Koryo medicine which has remarkable effects on preventing and treating nephritis, enhancing immune functions and boosting metabolism of cells.

It is manufactured by extracting effective elements from several medicinal herbs including Cortex eleutherococcus.

In a few days after its administration, a diuretic effect begins to appear and swelling, headache, debility and other subjective symptoms be removed.

It consists of 20mg of glucoside, polysaccharide and vegetable sterol.

When reducing swelling caused by nephritis and other diseases, it does not change electrolytes of Na⁺ and K⁺ in blood.

It reduces albumin in urine and nitrogen urea in blood, restrains obesity and enhances immune functions while improving metabolism of cells, blood circulation and renal function.

It is efficacious for the prevention and treatment of nephritis, renal hypertension, diabetes, heart diseases, rheumatoid arthritis, gout, cholecystitis, asthma, cold, bed-wetting and several other diseases.

It is recommended to take 2-3 pills, 3 times a day.

For the purpose of prevention, 1-2 pills, 2 times a day.

No side effects and contraindications.



Korea Pugang Pharmaceutical Company
Add: Pothonggang District, Pyongyang, DPR Korea
Tel: 850-2-18333(3918821)
Fax: 850-2-381-5274
E-mail: ga@star-co.net.kp

Vertical Machining Centre "RV-20" and "RV-30"

1. Vertical Machining Centre "RV-20"

Specifications:	
Traverse: X axis	520 mm
Y axis	380 mm
Z axis	480 mm
Working surface (LxW)	600x320 mm
Spindle speed	8 000 rpm
Feeds: rapid feed (X/Y/Z)	20/20/15 m/min
cutting feed (X/Y/Z)	5 m/min
Motor output	5.5 kW
Height	2 477 mm
Floor space	2 030x1 820 mm
Weight	4 200 kg



2. Vertical Machining Centre "RV-30"

Specifications:	
Traverse: X axis	800 mm
Y axis	510 mm
Z axis	560 mm
Working surface (LxW)	900x530 mm
Spindle speed	8 000 rpm
Feeds: rapid feed (X/Y/Z)	24/24/20 m/min
cutting feed (X/Y/Z)	5 m/min
Motor output	5.5 kW
Height	2 500 mm
Floor space	2 368x2 100 mm
Weight	5 000 kg



Ryonha Machinery Corporation
Add: Central District, Pyongyang, DPR Korea
Fax: 850-2-381-4410
E-mail: ryonha@silbank.net.kp



No.482103

Portable Chlorophyll Gauge

Portable Chlorophyll Gauge

The portable chlorophyll gauge makes it possible to measure the chlorophyll content of a leaf without damaging it so as to diagnose the nutritive condition of a plant and, on the basis of it, set up a scientific fertilizing system.

Specifications:

Range of Measurement	3×3 mm
Thickness of Leaf	Max 2mm
Length of Leaf Inserting	12mm
Light	Double LED
Sensor	One SPD
Range of Display	0-99SPAD
Operating Temperature/Humidity	0-50 Relative Humidity 85%
Outside Measurement (width×length×height)	78×164×50mm
Weight	200g



Kangnung Technical Trading Corporation
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Fax: 850-2-3814410

No.13627