# Table of Contents

# I. Further Processing of Non-ferrous Metals

## 1. Project of 100,000 m/t of Calamine

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to establish a project with a production line of 100,000 m/t of calamine, which includes 60,000 m/t hot-galvanizing alloy, 20,000 m/t casting zinc-base alloys and 20,000 m/t tin lead alloys. The main raw materials are the zinc ingots, pig lead, aluminum ingots and tin ingots. The production line of 100,000 m/t electrolytic zinc, 105,000 m/t electrolytic lead and 1200,000 m/t electrolytic aluminums are to be established in the Ganhe Industrial Park, and the main raw material will definitely meet the requirements of the project. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.9 | **Foreign Investment Needed (RMB 100 million)** | 1.9 | **Cooperation Form** | Joint venture, Joint Management and equity participation, etc. |
| **Economic Benefit** | There will be annual sales revenue of RMB 2.13 billion *yuan* and the profit of RMB 23.06 million *yuan* | | | | |
| **Usage of Products** | The casting zinc-base alloy has the effect of sacrificial anode protection of steel base so as to prolong the serving time of steel work pieces. At present, it is wildly applied as galvanized products in industry, agro-husbandry and fishing industries, power, transportation, chemical engineering, light industry, household electric appliances, construction, communications, national defense and other fields in the world; The high wear-resistance zinc alloy is mainly applied in zinc alloy wearing with the characteristics of low coefficient of friction, high affinity to the oil and excellent mechanic properties, etc. The lead-tin alloy is mainly applied in lead-based or tin-based bearing alloy, lead-tin solder, lead-tin alloy coating and handcraft, etc. with the wide usage and good market outlets. | | | | |
| **Market Prospect** | Cast zinc alloy is mainly applied in die-casting, while the wear-resistance cast zinc alloy is mainly in bearings, etc. The output of the cast zinc alloy has been increasing at an annual rate of 18%. The continued improvement of people's living standard results in a increase of galvanized steel demand, especially for the galvanized steel sheet, the consumption of zinc alloy for the galvanized steel sheet accounts for around 60% of the annual zinc consumption in the galvanization industry. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in the Ganhe Industrial Park of Xining Economic & Technologic Developing Zone, 6 kilometers south from Huangzhong County, 35 kilometers east from Xining and 14 kilometers north from Qinghai-Tibet Highway; The Qinghai-Tibet Railway and the Qinghai-Tibet Highway as well as the 301 Provincial Highway are crossing through the Huangzhong County, the special railway line is connecting into the industrial park with three self-provided steam locomotives, so the transportation is very convenient; The Dashimen Reservoir is located 1 kilometer from the industrial park with 11,336,000 $m^3$ of water supply, it has sufficient water recourses with easy access; So far the 330KV Dashimen Power Substation (2×240,000 KVA), 110KV Yuanshan Power Substation and (2×50,000 KVA) and Ganhe Power Substation (2×50,000 KVA) are the power supply for the Ganhetan area. Furthermore, the 330KV Hungyuan Power Substation (1×240,000 KVA), Huayuan Power Substation (2×240,000 KVA) and 110KV Tonghai Power Substation are all the supplementary power supply for the industrial park according to the demand of the area, so the industrial park has abundant supplies of power; At present, four voltage regulating stations of natural gas have been established in the industrial park, therefore, the annual gas supply of the natural gas transmission & distribution project is 200 million $m^3$, which is capable of meeting the requirements of natural gas in this project. | | | | |
| **Project Process** | The *Feasibility Study Report* has been accomplished | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 2. Project of Annual Production of 30,000 m/t of High Precision Aluminum Foils

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project will cover an area of 100 mu with a production line of annual production of 30,000 m/t of high precision aluminum foils | | | | |
| **Total Project Investment (RMB 100 million)** | 6.5 | **Foreign Investment Needed (RMB 100 million)** | 6.5 | **Cooperation Form** | Executive ownership, Joint venture, and Cooperation |
| **Economic Benefit** | The estimated newly increased sales revenue will be RMB 1,000 million *yuan* after completion of the project. | | | | |
| **Usage of Products** | The main products of this project are new generation energy-saving and healthy hydrophilic foil used in air-conditioning, the interior trim of aircraft, cable shield foil, the decorative foil used in buildings, etc. | | | | |
| **Market Prospect** | In recent years, the aluminum foil market of China is growing rapidly; however, the market for high-tech, high quality and first-class aluminum foil products is limited. So far, There are 83 aluminum foil manufacturers in China with the annul output of 235,000 tons. As poorly equipped, the terminal yield of aluminum foil is around 10% lower than that of international advanced level, moreover, there are many low and middle level products, but sophisticated products are short, therefore, the supply is inadequate to meet the demand, so it is heavily dependent on the import. From the point of developing trend of Chinese aluminum foil market; there is a huge potential for development either for its consumption or the grade of products. | | | | |
| **Project Construction Conditions** | The project area boasts complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, and broadband network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area where the Xinzhuang Super Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Project Process** | The *Feasibility Study Report* is being prepared. | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 3. Project of 2,000,000 Pieces of Precision Castings of Aluminum Alloy

| | | | | | |
|---|---|---|---|---|---|
| **Project** | The project is planned to be in the Delingha Coal Industrial Park and proposed to be | | | | |
| **Project Description** | from home and abroad with a production line of 2,000,000 automobile-used precision castings of aluminum alloy, it mainly produces cylinder body and head of engine, clutch housing, transmission case housing and other products series. The main raw material of this project is aluminum. Qinghai Province is one of the provinces famous for its aluminum production, and the productivity of electrolytic aluminum of Xining and surrounding areas has already reached 2,000,000 tons so as to ensure the source of raw materials in this project. | | | | |
| **Total Project Investment (RMB 100 million)** | 8 | **Total Project Investment (RMB 100 million)** | 8 | **Total Project Investment (RMB 100 million)** | 8 |
| **Economic Benefit** | There will be annual sales revenue of RMB 2.2 billion *yuan* and the profit of RMB 224 million *yuan* | | | | |
| **Usage of Products** | Auto parts | | | | |
| **Market Prospect** | So far, Santana, Audi, Red Flag, Jetta and other models have been using the aluminum alloy casting, among which the consumption of aluminum of Red Flag is the most, but only the equivalent of that in the mid-80s in Japan. At present, the demand of auto-used aluminum alloy casting is around 200,000 tons and the demand is increasing at a rate of 15,000-18,000 tons per year, while the domestic output is 50,000 tons, the market demand gap is so big that the market perspective is prosperous. | | | | |
| **Project Construction Conditions** | The project area boasts complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, and broadband network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area where the Xinzhuang Super Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Project Process** | The prophase work of the project has been completed | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Address of Enterprise** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Unit** | Economic Corporation Office of Xining | |
| **Telephone** | +86 971-8237743 | | **Telephone** | +86 971-8237743 | |
| **E-mail** | Qh2008li@163.com | | **E-mail** | Qh2008li@163.com | |

## 4. Project of Alumina Production with Coal Gangue Production Line

| | | | | | |
|---|---|---|---|---|---|
| **Description** | 30 million tons/year with annual production of 6 million tons of coal gangue. The coal gangue is the byproduct from coal mining and coal dressing industry, it is the mixture of inorganic substances and a small amount of organic substances, the main chemical constitutions of its ash are: SiO2, AL2O3 and a small amount of Fe2O3, CaO, MgO, Na2O, K2O, SO3, P2O5, N and H, etc. Efficiently separating and purifying the available components SiO2 and AL2O3 by chemical and physical means to produce technical process of the high added value and comprehensive utilization of alumina and other chemical products. The project will construct a production line of comprehensive utilization of 50,000 tons of alumina with coal gangue. | | | | |
| **Total Project Investment (RMB 100 million)** | 3.6 | **Foreign Investment Needed (RMB 100 million)** | 3.6 | **Cooperation Form** | Cooperation, Executive ownership |
| **Economic Benefit** | Upon putting into operation, the value of output will be RMB 240 million *yuan*, the profit and revenue will be RMB 100 million *yuan*, the payoff period of investment will be 3 years. | | | | |
| **Usage of Products** | Chemical raw materials | | | | |
| **Market Prospect** | The supply of alumina is so tight both in domestic and foreign markets, a large quantity of alumina must be imported from foreign countries every year so the prospect of the market is very prosperous. | | | | |
| **Project Construction Conditions** | The construction site of this project is in the Thermal Water Coal Industrial Park with sufficient coal gangue raw materials and the transportation of road and railway is pretty convenient. | | | | |
| **Project Process** | It has been listed in the 12th Five-year Industrial Plan of Gangcha County | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic and Commerce Committee of Haibei Tibetan Autonomous Prefecture | | **Contact Person** | Liu Zongyu | |
| **Telephone** | +86 9708645002 | | **Post Code** | 810200 | |
| **E-mail** | hbjmwlzy@163.com | | **Fax** | +86970 8642132 | |

## 5. Project of Annual Production of 100 m/t of Mnemonic Titanium-Nickel Alloy

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct a project of annual production of 100 tons of mnemonic titanium-nickel alloy in the Dongchuan Industrial Park which is the professional park focusing on silicon photovoltaic industry and new materials in the Xining Economic &Technological Development Zone of Xining (State level).The equipment required in this project is planned to adopt high-level domestic equipment of this kind and try to take China-made equipment. It adopts the mixed powder sintering process of the powder metallurgic approach. At present, there are one 300KV electric power substation and two 110KV electric power substations so it can fully meet the requirement of the production. The construction period is 2 years and the project covers an area of 30 *mu*. | | | | |
| **Availability of Resources and Raw Materials** | The raw materials of this project are titanium powder, nickel powder and hydrogen. The annual consumption of titanium powder is 58 tons, and the raw material can be guaranteed by the project of 5,000 tons/year sponge titanium being constructed in Qinghai and the project of 3,000 tons/year titanium ingot produced by Qinghai Shaped Titanium Co. Ltd. The annual consumption of nickel powder (content of 99%) of this project is 48.5 tons, but it can be purchased from the surrounding provinces. After the completion of the 20,000 tons/year nickel project of Xining Economic & Technological Development Zone, the raw material of nickel powder can be supplied from Xining. The enterprises of the industrial park can provide 308 industrial hydrogen cylinders (100 tons/year) of this project. Therefore, from the above information, we know that the supply of raw materials is out of question. | | | | |
| **Total Project Investment (RMB 100 million)** | 0.7 | **Foreign Investment Needed (RMB 100 million)** | 0.7 | **Cooperation Form** | Executive ownership, Joint Venture and Cooperation |
| **Economic Benefit** | The annual sales revenue after the completion of this project will be RMB 80,000,000 *yuan*, the profit margin will be 26.59%, the financial internal rate of revenue will be 22% and the payoff period of investment will be 4 years. | | | | |
| **Usage of Products** | The mnemonic titanium-nickel alloy is a functional material, it has not only the characteristics of high specific tenacity, wear proof, corrosion-resistance and non-magnetic quality and fine biocompatibility, but also the peculiar shape memory properties and hyper elasticity which is widely applied in all kinds of fields such as astronavigation, communications, medical care, automatic control, instrumentation, pipe connection, glass manufacturing and daily life, etc. | | | | |
| **Market Prospect & Necessity of Project Construction** | The output of the mnemonic titanium-nickel alloy reached more than 800 tons/year in 2008 with the annual sales of more than $8000,000,000, and the annual demand has reached more than 1,200 tons. In 2013, the demand of the mnemonic titanium-nickel alloy will be more than 3,000 tons all over the world. The productivity of the mnemonic titanium-nickel alloy in China has reached 50 tons and is increasing at a rate of 20% according to the National Statistic Bureau. In 2013, the domestic productivity of the mnemonic titanium-nickel alloy will be 200 tons, however, the consumption of it in domestic market is around 160-200 tons/year, and the consumption of it will be increased rapidly in the next few years. By the year of 2012, the consumption will reach to about 330 tons, and in 2015, it will reach to more than 600 tons. The development of the mnemonic titanium-nickel alloy in China can not meet the actual needs of domestic market, so that we have a prosperous prospect. The construction of this project can rationally develop and utilize the local resources, moreover, it is in accordance with industrial restructuring and rejuvenation plan of new materials in Qinghai, meanwhile it promotes economic development of Qinghai, therefore, it is very necessary to construct this project. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone (State-level) which is located in the eastern part of Xining , the capital city of Qinghai Province, with planned area of 12.79 $km^2$, it is 4 km from the railway station and freight station, and 12 km from airport, 8 km from downtown area. The Lanzhou-Xining Expressway is running through the region, so the geologic advantage is very obvious. The industrial park is the professional park focusing on silicon photovoltaic industry and new materials in the Xining Economic and Technological Development Zone in which the infrastructure is perfect with the water supply, drainage, electric power, fuel gas, communications, cable television, broadband network in accordance with the road network, and it can definitely meet the production and living demand of investors. It is the industrial base for further processing of featured resources on Qinghai-Tibet Plateau with a great investment value and potential. | | | | |
| **Project Process** | The *Feasibility Study Report* of this project has been accomplished and the investment promotion is being carried out. | | | | |
| **Address of Enterprise** | Xining Economic & Technological Development Zone, No.38 of Jingqiao Road | | **Legal Representative** | | |
| **Contact Unit** | Economic Development Bureau of Dongchuan Industrial Park | | **Contact Person** | Cui Qun, Jin Hanxiao | |
| **Telephone** | +86 971 8817777, +86 971 8817555 | | **Post Code** | 810007 | |
| **E-mail** | xnkfqdc@xnkfq.gov.cn | | **Fax** | +86 971 8125196 | |

## 6. Project of Annual Production of 20,000 m/t of Copper Bar and 20,000 m/t of Copper Sheet Strip Products

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the project in the Dongchuan Industrial Park which is the professional park focusing on silicon photovoltaic industry and new materials in Xining Economic and Technological Development Zone (State level). Considering the market demand and manufacturing level of copper products at home and abroad, the production process of copper bar is proposed to make the rod by up-continuous casting and then produce the copper bar through cold-rolled or stretched methods; The production line of copper sheet strip is planned to make the casting blank and blank tape through horizontal continuous casting after milling through the surface and then by high precision cold rolling to get the required copper sheet strip products. The project is planned to construct the annual production of 20,000 tons of copper bar and 20,000 tons of copper sheet strip production line adopting domestic equipment, meanwhile some key components are imported from foreign countries. The construction period of this project is 2 years and it covers an area of 120 *mu*. | | | | |
| **Availability of Resources and Raw Materials** | The present status of copper resources in China is that there is less mineral deposit with abundant reserves and high-grade mine resources. However, on Qinghai-Tibet Plateau, though the number of mining sites are limited with around 1900,000 tons reserves of copper ore and high-grade mine resources. In 2008, the output of electrolytic copper in China reached 3800,000 tons. Qinghai has abundant hyper power resources with cheaper price for electricity. There are two copper processing enterprises and the products are complete in specifications. The above conditions provide the sufficient resources and raw materials to ensure the implementation of this project. | | | | |
| **Total Project Investment (RMB 100 million)** | 5.5 | **Foreign Investment Needed (RMB 100 million)** | 5.5 | **Cooperation Form** | Executive ownership, Joint Venture and Cooperation |
| **Economic Benefit** | The annual sales revenue after the completion of this project will be RMB 2.4 billion *yuan*, the profit margin will be29.63%, the financial internal rate of revenue will be 28% and the payoff period of investment will be 5 years. | | | | |
| **Usage of Products** | The 80% of copper bar are brass bar products which are mainly applied in pipe copper fittings and copper valves of plumbing industry, communications, parts processing of electronic products, electric switch and other conductive equipment. The copper sheet strip products are mainly applied in radiator of automobile, transformer, electric wire and cable, communication industry and electronic vacuum devices, IC lead frame and architectural decoration, etc. | | | | |
| **Market Prospect & Necessity of Project Construction** | The copper processing industry is one of the major industries in nonferrous metal industry. With the rapid development of national economy, the copper processing of China is increasing at a rate of 10-12%, it has formed an industrial pattern focusing on wire stock, pipe products and strip products. The influence of Chinese copper processing in the international market has gradually expanded. In 2008, the consumption of copper products in China reached 7900,000 tons which makes it the largest copper product market. However, the productivity of copper products in China is 740 tons which means we need to import 500,000 tons. At present, a series of measures to expand domestic demand introduced by government has brought in new opportunities for developing copper processing industry through investing in electrical power, household appliances and infrastructure. According to the *Industrial Restructuring and Rejuvenation Plan of Nonferrous Metal Industry(*2009-2011*)* introduced by the government, the project is planned to construct the industrial base for further processing of copper products so as to integrate the industrial resources, promote the industrial restructuring of copper processing at the same time to optimize the industrial chain of copper products and increase the added value of products which is of great significance in promoting the economy of Qinghai. Meanwhile, it has a clear strategic significance in reducing the import of high-grade copper products in our country and developing electronic material industry. Therefore, the construction of this project is not only necessary, but extremely urgent. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone (State-level) which is located in the eastern part of Xining , the capital city of Qinghai with planned area of 12.79 $km^2$ , it is 4 km from railway station and freight station, and 12 km from airport, 8 km from downtown area. The Lanzhou-Xining Expressway is running through the region, so the geologic advantage is very obvious. The industrial park is the professional park focusing on silicon photovoltaic industry and new materials in Xining Economic and Technological Development Zone, so the infrastructure is perfect with the water supply, drainage, electric power, fuel gas, communications, cable television, broadband network in accordance with the road network, and it can definitely meet the production and living demand of investors. It is the industrial base for further processing of featured resources on Qinghai-Tibet Plateau with a great investment value and potential. | | | | |
| **Project Process** | The *Feasibility Study Report* has been accomplished, the investment promotion is being carried out. | | | | |
| **Address of Enterprise** | Xining Economic &Technological Development Zone, No.38 of Qingqiao Road | | **Legal Representative** | | |
| **Contact Unit** | Economic Development Bureau of Dongchuan Industrial Park | | **Contact Person** | | Cui Qun, Jin Hanxiao |
| **Telephone** | +86 971 8817777, +86 971 8817555 | | **Post Code** | | 810007 |
| **E-mail** | xnkfqdc@xnkfq.gov.cn | | **Fax** | | +86 971 8125196 |

## 7. Project of Annual Production of 80,000 m/t of Zinc Based Alloy Products

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The zinc based alloy is the wear-resistance material for replacement of copper. The common alloys are zinc & copper alloy (95%zinc +5%copper), zinc & aluminum alloy (91%zinc+9%aluminum), zinc aluminum-copper alloy (88.5%zinc+10%aluminum+1.5%copper), zinc, lead and aluminum alloys, zinc-antimony alloy, Zn-Mg alloy and zinc& rare earth alloy, etc. It is planned to construct the project in Dongchuan Industrial Park which is the professional park focusing on silicon photovoltaic industry and new materials of Xining Economic & Technological Development Zone (State-level). The project takes advantage of sufficient zinc ingot and other resources through adopting the new processing equipment of alloy induction furnace. It is planned to construct annual production line of 80,000 tons of zinc based products with 2-year construction period and the project covers an area of 100 acres. | | | | |
| **Availability of Resources and Raw Materials** | Qinghai Province covers a vast area which has abundant resources widely distributed; many of the mineral reserves rank first in the world. Qaidam Basin, renowned at home and abroad as "treasure bowl" has the Xitieshan zinc-lead mine with the large and high –grade mine deposit which has the highest economic value in China. At present, there are two large-scale zinc-lead melting enterprises in Xining (Lead Industry Branch of Western Mining Co., Ltd., Zinc Industry Branch of Western Mining Co., Ltd.) with annual production of 80,000 tons of wet lead and 220,000 tons of electrolytic zinc. So far, the productivity of electrolytic aluminum in Qinghai Province has reached 1000,000 tons which has obvious advantage of resources and raw materials. | | | | |
| **Total Project Investment (RMB 100 million)** | 2.2 | **Foreign Investment Needed (RMB 100 million)** | 2.2 | **Cooperation Form** | Executive ownership, Joint Venture and Cooperation |
| **Economic Benefit** | The annual sales revenue after the completion of this project will be RMB1,210 million *yuan*, the profit will be RMB118 million *yuan*, the tax will be RMB 29.5 million *yuan*, the profit ratio of investment will be 38.9% and the payoff period of investment will be 4 years. | | | | |
| **Usage of Products** | The products are mainly applied in heavy machine tool, equipment, pump, paper manufacturing, steel rolling, petroleum, mining area, cement, hoisting, valves, shipbuilding and other industries to manufacture all kinds of wear-resistance and anti-attrition opponents replacing the traditional copper alloy and Babbitt such as shaft housing, turbine, nut screw, slide rod, guide plate, bearing cage, etc. Meanwhile, zinc based alloy is the commonly used industrial material which is widely applied as reducing agent in the chemical industry. It is the dry-battery cathode material. | | | | |
| **Market Prospect& Necessity of Project Construction** | China is both a major country of processing and consuming copper products and a country lacking of copper resources, meanwhile China is also a major country of producing aluminum, therefore, conservation of copper resources is the most significant task of us. The implementation of this project is consistent with the industrial policy and investment orientation of "manufacturing of non-ferrous composite material and new alloy material" in the *Catalogues of Industries, Products and Technology Currently Encouraged and Emphasized to Develop by State* established by government. The zinc based alloy is a wear-resistance material alternative to copper, With the rapid development of Chinese manufacturing industries such as refrigeration, machinery, hardware and other industries, therefore, the demand for high-quality metal alloys is also increasing. The zinc based alloy is a kind of versatile and high-quality alloy material with prosperous market prospects; therefore, the implementation of this project is vey necessary. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone (State-level) which is located in the eastern part of Xining , the capital city of Qinghai with planned area of 12.79 $km^2$, it is 4 km from railway station and freight station, and 12 km from airport, 8 km from downtown area. The Lanzhou-Xining Expressway is running through the region, so the geologic advantage is very obvious. The industrial park is the professional park focusing on silicon photovoltaic industry and new materials in the economic and technological development zone of Xining in which the infrastructure is perfect with the water supply, drainage, electric power, fuel gas, communications, cable television, computer broadband network in accordance with the road network, and it can definitely meet the production and living demand of investors. It is the industrial base for further processing of featured resources on Qinghai-Tibet Plateau with a great investment value and potential. | | | | |
| **Project Process** | The *Feasibility Study Report* of this project has been accomplished and the investment promotion is being carried out. | | | | |
| **Address of Enterprise** | Xining Economic & Technological Development Zone, No.38 of Jingqiao Road | | **Legal Representative** | | |
| **Contact Unit** | Economic Development Bureau of Dongchuan Industrial Park | | **Contact Person** | Cui Qun, Jin Hanxiao | |
| **Telephone** | +86 971 8817777, +86 971 8817555 | | **Post Code** | 810007 | |
| **E-mail** | xnkfqdc@xnkfq.gov.cn | | **Fax** | +86 971 8125196 | |

# II. Equipment Manufacturing

## 1. Project of New CNC Machinery Tool Development

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to cooperate the development of a series of new CNC machinery tools with high technology such as rail machine, roller machine, heavy horizontal machine and spinning lathe, etc. | | | | |
| **Total Project Investment (RMB 100 million)** | 0.4 | **Foreign Investment Needed (RMB 100 million)** | 0.12 | **Cooperation Form** | Executive ownership, Joint venture and Cooperation |
| **Economic Benefit** | The total project investment is RMB 40 million *yuan*, and the foreign investment needed is RMB 12 million *yuan*. Upon putting into operation, there will be annual profit of RMB 10 million *yuan* and the pay-off period will be 3 years | | | | |
| **Usage of Products** | It is applied in manufacturing the five series of new CNC machinery tools with high technology, such as rail machine, roller machine, heavy-horizontal machine, spinning lathe and heavy radial drilling machine. | | | | |
| **Market Prospect** | The market prospect is prosperous. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in High-tech Industrial Development Park of Xining Economic & Technological Development Zone with the planned area of 23.5 $km^2$, which is located in the Northern District of Xining with Beichuan River in the east and Dayou Mountain in the west, which is 2,275 m above the sea level. It is 6 km away from downtown area, 4 km away from the Northern Station of Xining Railway Station and 20 km away from Xining Airport. The 227 National Highway goes through the east side of the zone, thus the transportation is very convenient. Meanwhile, the area boasts its complete infrastructure, including water supply, power supply, gas supply, communications and broadband network. Therefore, it has favorable environment for investment and construction. | | | | |
| **Project Process** | The pre-phase work is being prepared | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 2. Project of Gearbox for Wind Power Generation

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the production line of gearbox for wind power generation through taking advantage of industrial base accumulated by the related enterprises of wind power installation and equipment manufacturing which has been introduced by Nanchuan Industrial Park. | | | | |
| **Total Project Investment (RMB 100 million)** | 3 | **Foreign Investment Needed (RMB 100 million)** | 3 | **Cooperation Form** | Executive ownership, Joint venture and Cooperation |
| **Economic Benefit** | The annual sales revenue will be RMB 500 million *yuan* and the profit will be RMB 79 million *yuan.* | | | | |
| **Usage of Products** | The gearbox in the wind turbine is an important mechanical component, its main function is to transmit the motive power generated by wind wheel under wind power to the generator and get the relevant rotating speed. In general, the rotating speed of wind wheel is so low that it can not come up to the required speed of generator, it can only realize by accelerating of gear pair in gear box. According to the general layout requirement of machine unit, sometimes it requires to combine the transmission shaft (commonly known as macro-axis) which is directly connected to wind wheel hob and the gearbox. On some other occasions, the transmission shaft should be separated from the gearbox, meanwhile there is a structure connected by tension set devices or pivot journal. For increasing the braking capacity of machine unit, the brake apparatus is commonly installed at the input and output of gearbox to jointly break the transmission system of machine unit coordinating with tip break (wind wheel with firmed propeller pitch) or breaking devices with vary propeller pitch. | | | | |
| **Market Prospect** | The gearbox in the second wind turbine unit is an important mechanical component, its main function is to transmit the motive power generated by wind wheel under wind power to the generator and get the relevant rotating speed. In China, the installed capacity target of wind power was 4 million kw in 2010, 10 million kw by 2015 and 20 million kw by 2020, according to the industrial plan of the National Development and Reform Commission. By then, the installed capacity of wind-powered generation will account for 2% of that of electric power of the entire country. This project is planned to introduce funds and advanced equipment to develop gearbox of wind power generation unit, the market prospect is prosperous. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in High-tech Industrial Development Zone of Xining Economic & Technological Development Zone with planned area of 23.5 $km^2$, which is located in the Northern District of Xining with Beichuan River in the east and Dayou Mountain in the west, which is 2,275 m above the sea level. It is 6 km away from downtown area, 4 km away from the Northern Station of Xining Railway Station and 20 km away from Xining Airport. The No. 227 National Highway goes through the east side of the zone, thus the transportation is very convenient. Meanwhile, the area boasts its complete infrastructure, including water supply, power supply, gas supply, communications and broadband network. Therefore, it has favorable environment for investment and construction. | | | | |
| **Project Process** | The *Feasibility Study Report* of this project is being entrusted to complete. | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 3. Project of Bearings for Wind Power Generation

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the annual production line of 30,000 sets of bearings for wind power generation through taking advantage of industrial base accumulated by the related enterprises of wind power installation and equipment manufacturing which has been introduced by Nanchuan Industrial Park. | | | | |
| **Total Project Investment (RMB 100 million)** | 2.4 | **Foreign Investment Needed (RMB 100 million)** | 2.4 | **Cooperation Form** | Executive ownership, Joint venture and Cooperation |
| **Economic Benefit** | The annual sales revenue will be RMB 640 million *yuan* and the profit will be RMB 150 million *yuan* | | | | |
| **Usage of Products** | The self-contained bearing of wind power generation is mainly applied in yaw system, pitch control system, transmission, generator and other parts, among which each unit contains one set of yaw bearing, two sets of blade spindle bearings, 15 sets of transmission bearings and two sets of generator bearings. | | | | |
| **Market Prospect** | The wind power planning is 150 million kw by 2020, according to the updated *Medium & Long-term Development Plan of Renewable Energy* in China. However, presently the installed capacity of grid connected system is only 460,000 kw, ranking the tenth in the world and the fourth in Asia, thus it has a great development potential. The National Development & Reform Commission has clearly defined that the localization rate of blower should be more than 70%. In 2010, the output value of wind power equipment was RMB 30 billion *yuan* and by the year of 2020, it will reach to RMB 180 billion *yuan*. The prospect of manufacturing market of wind power equipment is of a great potential. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in High-tech Industrial Development Zone of Xining Economic & Technological Development Zone with planned area of 23.5 $km^2$, which is located in the Northern District of Xining with Beichuan River in the east and Dayou Mountain in the west, which is 2,275 m above the sea level. It is 6 km away from downtown area, 4 km away from the Northern Station of Xining Railway Station and 20 km away from Xining Airport. The No.227National Highway goes through the east side of the zone, thus the transportation is very convenient. Meanwhile, the area boasts its complete infrastructure, including water supply, power supply, gas supply, communications and broadband network. Therefore, it has favorable environment for investment and construction. | | | | |
| **Project Process** | The *Feasibility Study Report* of this project is being entrusted to complete. | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

# III. Salt Lake Chemical Industry

## 1. Joint Project of MTO/PVC

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The joint device of MTO/PVC is a kind of combination of series devices, including 1.8 million tons/year Methanol, 0.3 million tons/year Ethylene made by Methanol (MTO), 0.6 million tons/year PVC and 0.3 million tons/year PP. The initial materials of this joint device are natural gas and chlorine, and the finished products are PVC and PP. | | | | |
| **Total Project Investment (RMB 100 million)** | 136 | **Foreign Investment Needed (RMB 100 million)** | 136 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 1,363,343 billion *yuan* with the annual sales revenue of RMB 9.54340 billion yuan and the annual average profit totals RMB 1.24064 billion *yuan* | | | | |
| **Usage of Products** | The pipe material and section material for construction employed PVC as its raw material is a kind of emerging chemical building material with the basic features of healthy, reliable and environmental protection, and excellent performance of multi-function as well as the elegant aesthetic function. Meanwhile, the materials also meet the three standards of power-saving, land-saving and recycling the wastes, thus renowned as *"Green Environmental Protective Building Materials*" which is applied in constructing the most conducive living environment. After the emergence of wood, steel and aluminum materials, the new material has jumped up as the fourth generation material which is widely applied in all kinds of fields such as constructional engineering, municipal engineering and construction of cities & towns, etc. | | | | |
| **Market Prospect** | The demand of PP in China increased by 7.2% in 2006 with the total demand of 7300,000 tons and 3000,000 tons for import. By the year of 2010, the consumption of PVC and PP of China reached to 11 million tons and 13.01 million tons in 2011 respectively with the growth rate of more than 8%. Therefore, it is expected to face a promising prospect of products from this project. | | | | |
| **Project Construction Conditions** | The project is planned to be constructed in Kunlun Economic Development Zone of Golmud. The hypsography inclines naturally from southwest to northeast. However, it is plane as a whole. This area boasts complete water, power and heat supply, convenient communications. Meanwhile, No.109 National Highway and Qinghai-Tibet Railway go through this area, which has sound external coordinated conditions. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | **Contact Person** | Qi Zhongzhi, Song yuanhong | |
| **Telephone** | +86 977 8212115<br>+86 979 8420322 | | **Post Code** | 817000 | |
| **E-mail** | Hxzsj2008@163.com<br>gemkfqzhshju@163.com | | **Fax** | +86 977 8212115 | |

## 2. Project of Annual Production of 300,000 m/t of Propylene (MTP)

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Following the ethylene, the propylene is becoming an extremely important basic raw material of organic chemistry. It is planned to construct a project of annual production of 300,000 m/t of Propylene based on the market forecasting of the propylene consumption, meanwhile, taking consideration of the proposed scale of devices both at home and abroad and taking advantage of abundant Methanol in Golmud as the raw material. After the completion of this project, the local resources can be immediately put into use, thus it can increase the added value so as to raise the local economic revenue | | | | |
| **Total Project Investment (RMB 100 million)** | 40 | **Foreign Investment Needed (RMB 100 million)** | 40 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 4 billion *yuan* with the annual sales revenue of RMB 2.7 billion *yuan* and the annual profit of RMB 800 million *yuan* | | | | |
| **Usage of Products** | The propylene is the second petrochemical material after the ethylene which is mainly applied in manufacturing the polypropylene, propylene chloride, and propylene copolymer elastomer. The downstream products of propylene mainly are PP, propylene oxide, phenol/acetone and butanol/octanol. | | | | |
| **Market Prospect** | The demand for propylene of China is enormous. The domestic demand for propylene was expected to reach 11, 76 million tons, and the growth rate of China was around 12.4% from 2004 to 2007. The domestic demand for propylene will be 15.50 million tons by 2014, and the annual average growth rate of demand is about 5.7% from 2008 to 2014. | | | | |
| **Project Construction Conditions** | The project is planned to be constructed in Delingha Industrial Park, which enjoys a flat landform with complete facilities of water, electricity, heating system and convenient communications, the No. 315 National Highway and Qinghai-Tibet Railway go through the park area, which has sound external coordinated conditions. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | | **Contact Person** | Qi zhongzhi |
| **Telephone** | +86 977 8212115/8226837 | | | **Post Code** | 817000 |
| **E-mail** | Hxzsj2008@163.com | | | **Fax** | +86 977 8212115 |

## 3. Project of Annual Production of 20,000 m/t of Chlorinated Polyethylene

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Chlorinated Polyethylene (CPE) is a kind of irregular high polymer chloride and rubber-like plastic of polyethylene which will become elastomer rubber after vulcanizing. It is planned to construct the annual production of 20,000 tons of Chlorinated Polyethylene through taking chlorine in the Denglingha Industrial Park as the raw material | | | | |
| **Total Project Investment (RMB 100 million)** | 1.8 | **Foreign Investment Needed (RMB 100 million)** | 1.8 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 160 million *yuan* with the annual sales revenue of RMB 600 million *yuan* and the total annual profit of RMB 38 million *yuan* | | | | |
| **Usage of Products** | Chlorinated Polyethylene (CPE) is a kind of modified product generated by chlorination with the high-density polyethylene as raw material, it is a new macromolecular material which can be divided into two types of products, one is thermoplastic resin which is mainly applied in PVC impact modifier processing dose and rubber-plastic compatibilizer or it can be also used as thermoplastic material. The other one is elastomer which is mainly applied in rubber tube, cable, water-proof material and other rubber products. | | | | |
| **Market Prospect** | The consumption composition of CPE in China will be stable in the future, but the consumption for wire and cable will be increased to some extent and gradually reach to 15% to 25%; It was expected that the consumption of CPE in China would reach to around 220,000 tons. By 2010, the CPE for wire and cable reached to 59,000 tons. It would bring a great opportunity to the CPE cable market. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Delingha Industrial Park which is close to urban area and 2 km away from the railway station, it boasts the complete facilities of water, power and transportation with sound external coordinated conditions and sufficient unified water supply with daily supply capacity of 40,000 $m^3$; It enjoys sufficient power supply by constructing 330kv and 110kv power substations and electric wire. The Qinghai-Tibet Railway and No.315 National Expressway cross through the park and are connect with the main logistic road. The park is covered by communications, radio and television networks. | | | | |
| **Advantage in Source of Raw Material** | The raw materials are ethylene and chlorine, among which ethylene is the planned construction project of Delingha Industrial Park, and chlorine is the planned construction project of Chlor-Alkali Chemical Industry. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | **Contact Person** | Qi Zhongzhi, Song Yuanhong | |
| **Telephone** | +86 977 8212115, +86 979 8420322 | | **Post Code** | 817000 | |
| **E-mail** | Hxzsj2008@163.com gemkfqzhshju@163.com | | **Fax** | +86 977 8212115 | |

## 4. Project of Annual Production of 100,000 m/t of Polyethylene Pipe Products

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Polyethylene pipe products have excellent performance, perfect design theory and integrated series, which has made it an indispensible plastic pipe both in production and living. The wide application of polyethylene pipe products will bring in fine economic, social and environmental benefits both to society and enterprises. | | | | |
| **Total Project Investment (RMB 100 million)** | 2.1 | **Foreign Investment Needed (RMB 100 million)** | 2.1 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 210 million *yuan* with the annual sales revenue of RMB 120 million *yuan* and the total annual profit of RMB 47 million *yuan*. | | | | |
| **Usage of Products** | The Polyethylene (PE) drip-tape is mainly applied in drip irrigation and micro irrigation and other operations; it is a newly emerged water-saving technology which realizes the sectional precise irrigation with significant water-saving and increased yield effects. The water-supply pipes of Polyethylene (PE) have fine flexibility and the processing pipes can be shaped as rolls so as to lessen the number of joints in the pipe network. The pipes have excellent corrosion resistance, thus it is not required for corrosion resistance buried in the ground. | | | | |
| **Market Prospect** | With the enhanced awareness of water conservation, and for the realization of micro irrigation or sprinkler irrigation, the Polyethylene (PE) drip-tape is applied in drip irrigation and micro irrigation and other operations in some water deficit areas, therefore, it has a promising market prospect. | | | | |
| **Project Construction Conditions** | The project is planned to be constructed in Kunlun Economic Development Zone of Golmud. The hypsography inclines naturally from southwest to northeast. However, it is plane as a whole. This area boasts complete water, power and heat supply, convenient communications. Meanwhile, No.109 National Highway and Qinghai-Tibet Railway go through this area, which has sound external coordinated conditions. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | | **Contact Person** | Qi Zhongzhi, Song Yuanhong |
| **Telephone** | +86 977 8212115<br>+86 979 8420322 | | | **Post Code** | 817000 |
| **E-mail** | Hxzsj2008@163.com<br>gemkfqzhshju@163.com | | | **Fax** | +86977 8212115 |

## 5. Project of Annual Production of 20,000 m/t of Biaxial Oriented Polypropylene (BOPP) Film

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Currently, the Biaxial Oriented Polypropylene (BOPP) Film is a new transparent and advanced packaging material with high added value which has been developed very fast at home and abroad. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.8 | **Foreign Investment Needed (RMB 100 million)** | 1.8 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 183 million *yuan* with the annual sales revenue of RMB 360 million *yuan* and the total annual profit of RMB 46 million *yuan* | | | | |
| otal**Usage of Products** | The Biaxial Oriented Polypropylene (BOPP) Film is new and transparent flexible packaging material with the advantages of lightness, transparency, non-toxicity, damp-proofing, low permeability and high mechanical strength, etc., which is widely applied to the product packing of food, medication, daily necessities and cigarettes, etc. Meanwhile, it is also used as base material of complex pellicle renowned as "Packing Queen". | | | | |
| **Market Prospect** | The BOPP film mainly includes ordinary optical film, pearly luster membrane, tobacco film and electrolemma, etc. With the rapid development of national economy and the increasing social demand all these have stimulated the rapid development of BOPP film. Many domestic enterprises have successively introduced the BOPP production line from abroad so as to meet the market demand. In the next few years, the consumption of BOPP film of China is expected to be increased by 10% of the annual growth rate, thus it has a huge market potential. | | | | |
| **Project Construction Conditions** | The project is planned to be constructed in Kunlun Economic Development Zone of Golmud. The hypsography inclines naturally from southwest to northeast. However, it is plane as a whole. This area boasts complete water, power and heat supply, convenient communication. Meanwhile, No. 109 National Highway and Qinghai-Tibet Railway go through this area, which has sound external coordinated conditions. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | | **Contact Person** | Qi Zhongzhi,<br>Song Yuanhong |
| **Telephone** | +86 977 8212115<br>+86 979 8420322 | | | **Post Code** | 817000 |
| **E-mail** | Hxzsj2008@163.com<br>gemkfqzhshju@163.com | | | **Fax** | +86 977 8212115 |

## 6. Project of Annual Production of 100,000 m/t of Potassium Carbonate

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to utilize the salt lake potassium resources of experimental area to construct the project of annual production of 100,000 m/t of potassium carbonate which is conducive to turn the resource advantage into economic advantage. | | | | |
| **Total Project Investment (RMB 100 million)** | 3.8 | **Foreign Investment Needed (RMB 100 million)** | 3.8 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 380 million *yuan* with the annual sales revenue of RMB 565 million *yuan* and the annual average profit and tax of RMB 117.4 million *yuan* and the pay-off period of investment will be 5 or 6 years. | | | | |
| **Usage of Products** | Potassium carbonate is an important inorganic chemical which is mainly utilized in glass shell of color kinescope, monitor and raw gas decarburization of large chemical fertilizer; it is also applied in many fields such as petroleum refining, sodium-silicate in detergent productions, dye printing, film developing, enamel, potassic glass, electric welding rod, galvanization, crystal, potassium soap, agricultural chemical and medication; The application of $K_2CO_3$ also gets more and more popular in monosodium glutamate and food and other industries. Meanwhile, the application of $K_2CO_3$ in optional glass production can enhance the transparency, intensity and refraction coefficient of glasses and in welding electrodes can also prevent the breaking arc phenomena in welding. It can be used as a favorable agricultural fertilizer such as foliage spraying fertilizer and raw material of compound fertilizer, it has no harmful chloride to crops and soil, and the decomposing of its carbonate can also loosen the soil which can be used as the raw material of photosynthesis for the green plants. The $K_2CO_3$ is also the raw material of food additives like Potassium Sorbate, KDP and other products. It can also be used in production of vat dye and white charge of its ice dying. The $K_2CO_3$ can be used as absorbing agent removal of $H_2S$ and $CO_2$ and used as powder extinguishing agent mixed with soda. It can also be used as auxiliary raw material produced by acetone and ethyl alcohol. Its aqueous solution can be used in cotton scouring and degreasing of wool. | | | | |
| **Market Prospect** | With the increasing of people's living standard, the electric products have been developed rapidly, which provides a huge market for $K_2CO_3$ products. The productivity of $K_2CO_3$ in 2003 was 150,000 tons in China; it was mainly consumed in fields like glass envelope, special glass and fertilizer, etc. There was a huge international gap with the 720,000 tons productivity abroad in 2003 and market demand of 1000,000 tons. Therefore, we have an optimistic development prospect in $K_2CO_3$ industry. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Golmud Industrial Park which is 15 km away from urban area and 10 km away from the railway station, it boasts the complete facilities of water, power and transportation with sound external coordinated conditions and sufficient unified water supply with daily supply capacity of 110,000 $m^3$; It enjoys sufficient power supply by constructing 330kv and 110kv power substation and electric wire. The Qinghai-Tibet Railway and Expressway cross through the park and are connected with the main logistic road. The park is covered by communications, radio and television networks. | | | | |
| **Source of Raw Material** | The main raw material is Potassium Chloride. It is____km away from the Salt Lake Group with sufficient supply of raw materials. | | | | |
| **Project Process** | The project is under planning. | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Autonomous Prefecture | | | **Contact Person** | Qi Zhongzhi, Song Yuanhong |
| **Telephone** | +86 977 8212115<br>+86 979 8420322 | | | **Post Code** | 817000 |
| **E-mail** | Hxzsj2008@163.com<br>gemkfqzhshju@163.com | | | **Fax** | +86 977 8212115 |

## 7. Project of Annual Production of 2.5 million m/ t of Coal Methanol

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to establish a project with an annual production of 1 million tons of Coal Methanol, availing of the abundant coal resources of *Dachaidan* and converting the resources into coal chemical products. It can provide raw materials for development of Salt Lake chemical industry through making full use of resources and formulating the coal chemical industries of high-tech, high-added value, environmental protection and efficient for sustainable development. | | | | |
| **Total Project Investment (RMB 100 million)** | 75 | **Foreign Investment Needed (RMB 100 million)** | 75 | **Cooperation Form** | Exclusive ownership, Joint venture, Cooperation |
| **Economic Benefit** | There will be annual sales revenue of RMB 6 billion *yuan* and annual profit and tax of RMB 2.1 billion *yuan* upon the project investment of RMB 7.5 billion *yuan*. | | | | |
| **Usage of Products** | Methyl Alcohol is an important basic material of organic chemicals, it is also known as methanol or carbinol which is one of the basic organic raw materials. It is a colorless, flammable, volatile polar liquid mainly for the manufacture of Formaldehyde, Acetic Acid, Methyl Chloride, Methylamine and other organic products and used as raw material of agricultural chemicals and medication. It is also used as important solvent or as alternative fuel mixed with gasoline. Methyl Alcohol can be applied to produce hundreds of products and derivatives after further processing. | | | | |
| **Market Prospect** | Since 2000, the output of Methyl Alcohol increases year after year, the growth rate has been above 10% especially in the last four years. As an effective alternative resource, Methyl Alcohol has caused widespread concern around the world, renowned as "Methanol Economy". It is also a comparatively promising field in realizing Great-leap-forward development of China's future energy technology. The implementation of constructing million tons of Coal Methanol in *Dachaidan* will not only increase the value of coal resource transformation, but promote the development of Salt Lake resources; meanwhile, it can accelerate the integral development of Salt Lake Chemical Industry and Coal Chemical Industry so as to realize the economic cooperative development of *Dachaidan* area. | | | | |
| **Advantage in Plant Site** | It is planned to construct the project in *Dachaidan* Industrial Park with planned area of 24 $km^2$ and complete facilities of water, power and road as well as good external co-ordination conditions. The water source is 25 km away from the project site with adequate united water supply of 10,000 $m^3$ per day and power is sufficiently supported by transformer of 110KV and power grid in the park. No. 215 National Highway passes through the park linking the main logistic road of the park and connecting the planned Golmud-Dunhuang Railway, No.315 National Highway and 65 km away from the Xitieshan Railway Station, enjoying convenient transportation and free-flowing logistics. The communications, broadcast and TV networks cover the whole park. | | | | |
| **Source of Raw Material** | The main raw material is coal; the project site is about 80 km away from Yuka Coal Origin and 70 km away from Dameigou with sufficient supply of raw materials for production. | | | | |
| **Project Process** | The pre-phase work is under going | | | | |
| **Contact Unit** | Development & Reform Bureau under Dachaidan Administrative Commission | | **Contact Person** | Qi Zhongzhi, Yang Qinghai | |
| **Telephone** | +86 977 8212115, +86 977 8281265 | | **Post Code** | 816200 | |
| **E-mail** | Hxzsj2008@163.com<br>ysm678@163.com | | **Fax** | +86 977 8212115 | |

## 8. Project for PVC Co-production of High Purity Magnesia

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the production installation for annual production of 150,000 tons of high purity Magnesia through utilizing Bischofite as the raw material for pyrolysis of high purity Magnesia and constructing the supporting production installation for annual production of 400,000 m/t of PVC availing Chlorine Hydride generated by installations of high purity Magnesia combining with Calcium Carbide Acetylene. | | | | |
| **Total Project Investment (RMB 100 million)** | 20 | **Foreign Investment Needed (RMB 100 million)** | 20 | **Cooperation Form** | Exclusive ownership, Joint venture, Cooperation |
| **Economic Benefit** | The total investment of this project will be RMB 2 billion *yuan*. After the completion of this project, annual sales revenue is estimated to increase by RMB 3 billion *yuan.* | | | | |
| **Usage of Products** | Magnesia is an important inorganic industrial chemical with wide application in national economic construction and high-tech fields. In recent years the production, application and research & development activities of a variety of Magnesia are very active and have constantly developed in breadth and depth. | | | | |
| **Market Prospect** | China has abundant resources of Magnesium resources and Salt Lake brines and it is a major country of sea salt industry with abundant and different types of Magnesium resources which has broad marketing space. There is a promising market prospect for developing series of products of Magnesia and deepening its application in different fields. | | | | |
| **Advantage in Plant Site** | The project is planned to be constructed in Kunlun Economic Development Zone of Golmud. The hypsography inclines naturally from southwest to northeast. However, it is plane as a whole. This area boasts complete water, power and heat supply, convenient communications. Meanwhile, No.109 National Highway and Qinghai-Tibet Railway go through this area, which has sound external coordinated conditions. | | | | |
| **Advantage in Source of Raw Material** | A vast bulk of Salt Lake resources is stored in Golmud area. It is planned to develop the project of 400,000 m/t of PVC availing 150,000 m/t Magnesia produced by Bischofite Pyrolysis and by-product Hydrochloride Acid in combination with limestone and hard coke of the experimental area in order to mutually promote and converse resources. | | | | |
| **Project Process** | *The Feasibility Report* of this project has been completed | | | | |
| **Contact Unit** | Investment Promotion Bureau of Kunlun Economic Development Zone, Golmud under the Economic Coordination Office of Haixi Mongolian & Tibetan Prefecture | | **Contact Person** | Qi Zhongzhi, Song Yuanhong | |
| **Telephone** | +86 977 8212115<br>+86 979 8420322 | | **Post Code** | 817000 | |
| **E-mail** | Hxzsj2008@163.com<br>gemkfqzhshju@163.com | | **Fax** | +86977 8212115 | |

# IV. Further Processing of Agriculture and Animal Husbandry

## 1. Processing Project of Annual Production of 7,000 m/t of Series Products of Yak Meat

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | To promote the development of enterprise and meet the market demand, the new construction project is conducted by Qinghai Kekexili Industrial Development Group Co, Ltd. Covering an area of 117 acres with total project investment of RMB 138.9 million *yuan*. It is planned to construct a modern processing plant that incorporates production processing and industrial tourism with two years' construction period. It will become the largest processing base of the Tibetan yak meat in Northwest region of China after implementation of this project, The estimated annual sales revenue is RMB 540.43 million *yuan* with total construction area of 17.820 $m^2$ and the financial internal rate of return of 48.1%, which can help 20,000 farmers and herdsmen make fortune out of it and provide 186 jobs at the same time. The construction bases are Xinghai County, Gonghe County and Tongde County. The number of yak in stock is 105,600 and the number of slaughtered yak is 38,000 in Tongde County. The annually slaughtered yak of this project will be 15,000; The number of yak in stock is 118,300 and the slaughtered yak 42,600 in Xinghai County and the annually slaughtered yak of this project will be 15,000 m/t; the number of yak in stock is 133,700 and the number of slaughtered yak is 48100 in Gonghe County and the annually slaughtered yak will be 15,000 of this project. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.4 | **Foreign Investment Needed (RMB 100 million)** | 0.5 | **Cooperation Form** | Joint venture, Cooperation |
| **Economic Benefit** | Upon putting into production, the project can achieve sales revenue of RMB 540.43 million *yuan*. | | | | |
| **Usage of Products** | The main products are series products of chilled meat and Tibetan dried yak meat (Food). | | | | |
| **Market Prospect** | With the improvement of people's living standard and the development of tourism, the series products produced with the Tibetan yak meat of Qinghai as raw materials enjoy great popularity with consumers. The products have been developed from several items to 7 major series over 150 items which once faced shortage situation. To ensure supply and increase the market share of products, the new branch company has been constructed in Xining to process the series products of Tibetan yak meat. The products have been sold to twenty-two provinces and cities nationwide, which has a promising market prospect. | | | | |
| **Project Construction Conditions** | It is planned to construct the project in Nanchuan Industrial Park of Xining Economic & Technological Development Zone (State level) with sound construction conditions. The construction site is located next to Xijiu Company and around 15 km away from Xining Railway Station with convenient transportation. The construction unit of this project has five years' experience in processing of Tibetan yak meat with over 150 products at present which has mature production technology. | | | | |
| **Project Process** | Presently, The preliminary design and approval work have been completed; the land acquisition has been done with site grading and construction of enclosing wall. | | | | |
| **Enterprise Description** | Founded in April 2009, the Qinghai Kekexili Meat Food Co., Ltd is a new company established by Qinghai Kekexili Industrial Development Group Co, Ltd. to further expand market share, create better efficiency and help more farmers and herdsmen make fortune. Presently, there are 7 major series over 150 products with the brand of *Hoh Xil* in the company which has set more than 20 branch offices in China. | | | | |
| **Address of Enterprise** | Nanchuan Industrial Park of Xining, No. 108 of Tongan Road | | **Legal Representative** | Shao Yong | |
| **Contact Unit** | Economic Corporation Office of Xining | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Post Code** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 2. Project of Comprehensive Exploration and Further Processing Industrialization of Yak Milk-*Qula* Casein

| | | | |
|---|---|---|---|
| **Project Description** | Taking advantage of the platform of Qinghai Timor Martha Tibetan Pharmaceutical Co., Ltd and the technological innovation platform of Northwest Plateau Institute of Biology under Chinese Academy of Sciences and availing the regional resources, the project is planned to develop health food with different flavors and dosage form through taking Calcium Caseinate made by Qula as the raw material and adding other accessories which have functions of Calcium Supplement, helping digest and relieving diarrhea so as to meet the requirements of consumers. | | |
| **Cooperation Form** | Cooperation | | |
| **Total Project Investment** | RMB 115.5673 million *yuan* | | |
| **Foreign Investment Needed** | RMB 48 million yuan | | |
| **Estimated Economic Benefit** | After the implementation of this project, the normal annual production output will be 1.5 million bottles of Qula Oral Liquid, 14.4 million capsules of Qula Hard Capsules of Calcium Supplement, 14.4 million capsules of Qula Soft Capsules of Calcium Supplement, 19.2 million pieces of Qula Stomach Pills and 19.2 million pieces of Qula Calcium Supplement Tablets with estimated annual sales revenue of RMB 99.74 million yuan. Considering cost, it is estimated that the annual sales tax and supplementary tax is RMB 781,900 yuan, the expenses of raw materials are RMB 38.8 million yuan, the expenditure on power is RMB 1.1358 million yuan, the staff wages and welfare expenses are RMB 2.2435 million yuan, the publicity and other expenses of RMB 14 million yuan. The total annual profit of this project will be RMB 31.6192 million yuan with after-tax profit of RMB 23.7144 million yuan, the investment profit rate of 27.36% and the profit and tax investment ratio of 28.04% respectively. The above indicators indicate that the project has sustainable capacity of profitability, good economic efficiency and powerful capacity against economic risk. | | |
| **Usage of Products** | Calcium Supplement | | |
| **Project Construction Conditions** | **The main content is as follows:**<br>1. Establishment of Health Food GMP workshop;<br>2. Construction of spray drying tower;<br>3. Development and Exploration of Qula Oral Liquid, Qula Hard Capsules of Calcium Supplement, Qula Soft Capsules of Calcium Supplement, Qula Stomach Pills and Qula Calcium Supplement Tablets.<br>**The key technologies include:**<br>1. Establishment of Quality Specification and Detection of Products<br>2. Process Control for Key Part of Processing Procedure<br>**Source of Technology:**<br>It relies mainly on the research and development of Northwest Plateau Institute of Biology, Chinese Academy of Sciences. | | |
| **Preliminary Progress of Project** | Establishment of Quality Specification and Inspection of Products | | |
| **Preferential Policies of Project** | Upon putting into production, the risk and profit are being undertaken and shared by the proportions of investors respectively. | | |
| **Project Implementation Unit** | Qinghai Timor Martha Tibetan Pharmaceutical Co., Ltd. | **Legal Representative** | Li Yaohua |
| **Address** | Qinghai Biotechnology Industrial Park, No. 25 of | **Ownership** | Limited Liability Company |

<table>
<tr><td></td><td>Jingsan Road</td><td></td><td></td></tr>
<tr><td>Enterprise Description</td><td colspan="3">Qinghai Timor Martha Tibetan Pharmaceutical Co., Ltd was initially named as Tibetan Pharmaceutical Plant of Hainan Prefecture of Qinghai, it established its nationwide reputation due to the spirit of “Strive for survival, base on the sincerity, trustworthy by patients by curative effect”. In order to further develop and expand the “magnificent miracle” of Plateau and make it a large-scale production base of Tibetan Pharmaceuticals, Mr. Baima, the former Vice Governor, of Qinghai took charge of the overall work in Tibetan Pharmaceutical Plant of Hainan Prefecture of Qinghai. Due to the reliable quality and good curative effects during his charge of the company, it received volumes of compliments from consumers. In order to remember the Vice Governor who has made outstanding contributions to the national pharmaceutical industry, the leaders of Tibetan Pharmaceutical Plant of Hainan Prefecture of Qinghai decided to rename the company as Qinghai Baiba Tibetan Pharmaceutical Co, Ltd in 1987. In April 2004, the company conducted assets reorganization by collaboration with foreign businessmen initiated by local government and renamed it as Qinghai Timor Martha Tibetan Pharmaceutical Co., Ltd. approved by Qinghai Food and Drug Administration. After thirty years, the Tibetan Pharmaceutical Plant of Hainan Prefecture of Qinghai has developed into a new modern high-tech Tibetan Pharmaceutical enterprise that combines scientific research, production, sales, information. At present, over 50% employees have high or medium technical titles and 95% of employees have college or secondary junior college education background, which reserve a large number of talents for the great development of enterprise. The products of company acquired the GMP certificate on January 27, 2005 with three existing production lines of pill, including granule and honeyed pill and powder medicine, 15 varieties approved by the state and 2 varieties approved by Food and Drug Administration with comprehensive production capacity of annual production of 0.4 billion finished pills, 800 bags of power medicine and the annual sales revenue of RMB 0.3 billion yuan.<br>Currently, the products are sold well all over the country and exported to Hong Kong and Macau and some are exported overseas which have gained an excellent credit and accent from multitudinous patients.</td></tr>
<tr><td rowspan="3">Contact Information</td><td>Contact Unit</td><td>Qinghai Timor Martha Tibetan Pharmaceutical Co., Ltd</td><td>Contact Person</td><td>Li Yaohua</td></tr>
<tr><td>Address</td><td>Qinghai Biotechnology Industrial Park, No. 25 of Jingsan Road</td><td>Tel</td><td>+86 971 5319118</td></tr>
<tr><td>E-mail</td><td>qhdmezy@dmezy.com</td><td>Tax</td><td>+86 971 5318688</td></tr>
</table>

## 3. Project of Annual Production of 5,000 m/t of Potato Starch

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct a project with a production line of annual production of 5,000 m/t of potato starch availing the potato resource of our county and surrounding counties | | | | |
| **Total Project Investment (RMB 100 million)** | 0.55 | **Foreign Investment Needed (RMB 100 million)** | 0.55 | **Cooperation Form** | Joint venture |
| **Economic Benefit** | Upon putting into operation of this project, there will be annual sales revenue of RMB 66.7 million *yuan* and the profit and tax of RMB 15 million *yuan* and the pay-off period is three years. | | | | |
| **Usage of Products** | It is mainly applied in fields such as food production, feeding stuff and pharmacy with wide application. | | | | |
| **Market Prospect** | It has a huge market with wide prospects | | | | |
| **Project Construction Conditions** | There are 10 potato production bases in the semi-real and shallow mountain areas which cover a growing area of 65,000 mu with output of 24,000 m/t of potatoes. The 60% of potatoes are sold outside the county, the production needs can be fully guaranteed. | | | | |
| **Project Process** | The *Feasibility Study Report* has been accomplished | | | | |
| **Enterprise Description** | | | | | |
| **Address of Enterprise** | | | **Legal Representative** | | |
| **Contact Unit** | Economic and Trade Bureau of Pingan County | | **Contact Person** | Zhao Guangnian | |
| **Telephone** | +86 972 8612157 | | **Post Code** | 810600 | |
| **E-mail** | | | **Fax** | | |

# V. New Energy

## 1. Project of Solar-energy Power Generation

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Solar energy is clean, green and renewable. It is planned to build a 20×4 Mw solar-energy power generation plant. | | | | |
| **Total Project Investment (RMB 100 million)** | 10 | **Foreign Investment Needed (RMB 100 million)** | 10 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | | | | | |
| **Usage of Products** | Power generation with solar energy | | | | |
| **Market Prospect** | | | | | |
| **Project Construction Conditions** | Haibei Prefecture is rich in solar energy potential due to its long shining hours; meanwhile, the prefecture is located on the Plateau with thin cloud layer, fresh air and little pollution, the photic quality is very good as there are plenty of red, yellow and blue rays, which are easily absorbed by plants. | | | | |
| **Preliminary Project Conditions** | The project has been listed in the 12th Five-year Plan of the prefecture. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Economic & Trade Commission of Haibei Tibetan Autonomous Prefecture | | **Contact Person** | Liu Zongyu | |
| **Telephone** | +86 970 8645002 | | **Post Code** | 810200 | |
| **E-mail** | hbjmwlzy@163.com | | **Fax** | +86 970 8642132 | |

## 2. Project of 40 ×350 KW Wind Energy Power Generation

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Qinghai Province is rich in wind energy, yet it has not started its utilization in a full swing. There has not been any mentionable wind power plant yet, let alone the formation of the related industry. A census on the wind energy has been conducted by Qinghai Development and Reform Commission, which has been a preparation for the launching of the proposed project. | | | | |
| **Total Project Investment (RMB 100 million)** | 3 | **Foreign Investment Needed (RMB 100 million)** | 2 | **Cooperation Form** | Exclusive ownership and joint venture |
| **Economic Benefit Prediction** | It is predicted that a 40 ×350 KW wind power plant could generate 76,800,000 KW/h annually with a gross output value of 200 million yuan, including a profit of 120 million yuan. | | | | |
| **Usage of Products** | Power generation | | | | |
| **Market Prospect** | Qinghai is an area with rich wind energy, 80% of its area is of development value, ranking third of its kind in China. Wind energy preserve accounts for 9.4% of that of China while wind power makes up 11.2% of that of China. The factual development amount in Qinghai could be 25.3 million Kw/h, next to the southeast coastal area, Inner Mongolia and Xinjiang, if we assume that 10% of the wind energy is able to be developed according to the theory and when the actual wind-wheel covering area is considered. The theoretical value of wind energy could be converted into 78.54 million tons of standard coal and be equal to 174.5 billion Kw/h of electric power. | | | | |
| **Project Construction Conditions** | In Riyue Mountain area, the annual utilizable wind energy is over 6,100 hours and more than 150 days in a year are of strong wind averagely. It can be said that wind energy is a huge “unknown” resource that could turn out to be an advantage for the proposed project. | | | | |
| **Project Process** | The project has drawn attention from the provincial and municipal government officials and the feasibility study report is prepared. The first phase infrastructure for 3×350 KW wind power generation units has been built in the Riyue Mountain area, Huangyuan County of Qinghai Province. | | | | |
| **Enterprise Description** | Qinghai Fengfa Resource Company has already had a clear identification on how to develop the wind power industry in Qinghai Province after one-year preparation in terms of technology and market. It has mastered the essential technology to produce low wind velocity and big power generator through introduction of latest international technology and consideration of the local wind characteristics. With 4 national patents, the company is technically able to develop the wind energy in Qinghai. | | | | |
| **Enterprise Address** | Riyue Township, Huangyuan County, Qinghai, P. R. China | | | **Legal Representative** | |
| **Contact Unit** | Xining Economic Coordination Office | | | **Contact Person** | Li Li |
| **Telephone** | +86 971 8237743 | | | **Post Code** | 810000 |
| **E-mail** | Qh2008li@163.com | | | **Fax** | +86 971 8237743 |

## 3. Utilization Project of Solar Photo-thermal Resources

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project will construct a production line with an annual output of 10,240 tons of borosilicate glass tubes, 6 million pieces of all-glass evacuated solar collector tubes and 300,000 sets of solar power heaters through making full use of rich quartz, electrical power and solar power resources in Qinghai. Qinghai is rich in silica resources and alunzic and stainless steel plates are so popular, which would completely meet the main raw materials supply demand of quartz sand, alunzic and stainless steel plates. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.86 | **Investment Needed (RMB 100 million)** | 1.86 | **Cooperation Form** | Joint venture, joint management, joint stock etc. |
| **Economic Benefit** | It is estimated that the project can achieve an annual sales income of RMB 345 million *yuan* with a profit of RMB 19 million *yuan*. | | | | |
| **Usage of Products** | Solar power heater takes full advantage of solar power, which is environmentally friendly and long-lasting. Applied with other energy, solar power can be widely applied for 24-hour heating of homes, schools, hotels etc. | | | | |
| **Market Prospect** | In 2007, the total holding of solar power heater was about 108 million $m^2$ (75600MWth) and the annual output is 23.4 million $m^2$ (16380MWth) in China with the growth rate of 30%. There were over 20 enterprises maintaining the output value of more than RMB 100 million *yuan*. Solar power heaters were exported to more than 50 countries and regions in Europe, America, Africa, Southeast Asia etc., with the export value increasing by 28%. It is predicted that the application holding of solar power heaters will reach 150 million (105000 MWth） and 300 million $m^2$ (210000MWth） respectively in 2010 and 2020. | | | | |
| **Project Constriction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone, which is 5 km away from the downtown areas of Xining City, one of the national development zones at a closest location from the city's downtown area. Approved by the State Council in July 2000, it covers an area of 12.79 $km^2$. An investment of RMB 470 million *yuan* has been put into the zone's facility construction. A total of 16 roads with the length of 13.4 km and width of 18 to 30 m have been built. The main highway of Xining City, Southern Circle Expressway and Bayi Road, traverse through the development zone and there are 2 entrances of Lanzhou-Xining Expressway to form a complete road network in the development zone. The infrastructure is complete here with sufficient water, drainage, power, natural gas supply, communication CATV and broadband. | | | | |
| **Project Process** | *The Feasibility Report* of the project will be entrusted to complete. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 4. Project of Polished Wafers of Monocrystalline Silicon

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct a production line of integrated circuit monocrystalline silicon with the diameter of 6 and 8 inches and 2 million pieces of polished wafer by utilizing solar PV industry based at Dongchuan Industrial Park. Main raw materials are polycrystalline silicon, crucible and cut-boundary blades. Polycrystalline silicon is produced in Dongchuan Industrial Park of Xining Economic & Technological Development Zone at national level with the output of 4,250 tons and the output is expected to reach 30,000 tons during the 12th Five-year Plan. Cauldron can be purchased from domestic market and cut-boundary blades are sufficient in Qinghai Province. | | | | |
| **Total Project Investment (RMB 100 million)** | 8 | **Investment Needed (RMB 100 million)** | 8 | **Cooperation Form** | Exclusive ownership, joint venture or cooperation, |
| **Economic Benefit** | It is estimated that the project will achieve an annual sales income of RMB 700 million *yuan* with a profit of RMB 150 million *yuan*. | | | | |
| **Usage of Products** | Monocrystalline silicon wafers can be divided by the diameters into types of 6 inches, 8 inches, 12 inches (330mm) and 18 inches (450mm), etc. The larger diameter wafer is that the more integrated circuit capacity of printing will be and the lower chip cost will be. But wafers of large size will have higher requirements of materials and techniques. There are 3 different ways to stretch monocrystalline silicon, namely, CZ, FZ and epitaxial method. CZ and FZ are used for stretching monocrystalline silicon bars while epitaxial method is for stretching monocrystalline silicon films. Monocrystalline silicon stretched by CZ is mainly used in semiconductor integrated circuits, diodes, epitaxial substrate films and solar batteries. So far the diameter of the crystal has been controlled between 3 and 8 inches. Monocrystalline stretched by FZ is mainly used in the field of high-pressure and high-power silicon controlled rectifier for the products such as high-power transmission and transformation facilities, electric locomotives, rectifying devices, frequency conversion devices, mechatronics products, LED, TV sets, etc. So far the diameter of the crystal has been controlled between 3 and 6 inches. Epi-Wafers are mainly used in the field of integrated circuit.<br>Monocrystalline silicon materials made from CZ are widely used for the low cost and good performance. CZ polished wafers and epi-wafers are the main materials for IC industry and CZ polished wagers are usually utilized in memory circuit for the low cost. | | | | |
| **Market Prospect** | Monocrystalline silicon is the main material for microelectronic industry. The market demand of monocrystalline silicon wafers with the diameter of 6 inches and 8 inches will grow by more than 20%, which has great potentials. | | | | |
| **Project Constriction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone, which is 5 km away from the downtown areas of Xining City, one of the national development zones at a closest location from the city's downtown area. Approved by the State Council in July 2000, it has an area of 12.79 km2. An investment of RMB 470 million yuan has been put into the zone's facility construction. A total of 16 roads with the length of 13.4 km and width of 18 to 30 m have been built. The main highway of Xining City, Southern Circle Expressway and Bayi Road, traverse through the development zone and there are 2 entrances of Lanzhou-Xining Expressway to form a complete road network in the development zone. The infrastructure is complete here with sufficient water, drainage, power, natural gas supply, communication CATV and broadband. | | | | |
| **Preliminary Project Conditions** | *The Project Feasibility Report* will be entrusted to complete. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 5. Demonstration Project of 10MW Solar Parabolic through Power Generation in Hainan Prefecture

<table>
<tr><td>Project Description</td><td colspan="5">1. Description of Resources: TalaTanl Grassland in Gonghe County of Hainan Prefecture covers an area of 4.43 million mu with the average altitude of 2,900 meters above sea level and the average vapor pressure of 5.1 milibar. There is no more than one sandstorm in a year. The annual average sunshine is 2,985 hours, which accounts for 68% of that in Qinghai Province and the total radiation of solar power surpasses 2,000 kw /$m^2$. The grassland can resist the maximum wind speed of 25.9 m/s. The annual precipitation is 330 mm and the annual wet weather can reach 11days. Moreover, the grassland is 20 km away from the surface water source.<br><br>2. Project Implementation Contents: This project includes four main components, namely, the main project of production of power station, the project of power in-out, ancillary facilities for living and safety and protective facilities.<br><br>3. Construction Scheme and Purpose: The project utilizes Italian technology of solar parabolic through power generation of high temperature. The project has the capacity of 10 MW which can provide 3,350 KWh's power annually. The temperature of the project system is 550 ℃ and will reach 290 ℃ after heat releasing. The system is equipped with the steam turbine generating unit of 6 MW with the energy storage time of 16 hours and the water circling of 200 t/h. The main devices such as solar cells, reflective liners and driving gears are all imported from Archimedes Company.<br>Purpose: First, the project is to explore and tackle the technical problems of the construction of solar power plant on the alpine plateau. Second, the project can propel the economic development of the west. Third, it can propel the development of the solar power industry and machinery industry through technological import.</td></tr>
<tr><td>Total Project Investment (RMB 100 million)</td><td>492.56</td><td>Investment Needed (RMB 100 million)</td><td>492.56</td><td>Cooperation Form</td><td>Exclusive ownership</td></tr>
<tr><td>Economic Benefit</td><td colspan="5">Taking full account of the features of the project and the state's preferential policies for renewable energy, we apply to enjoy the preferential electricity price of RMB 3.2 yuan/kwh in the first ten years upon production. When it becomes fully operational, the annual sales income can reach RMB107.2 million yuan. In the following fifteen years, the electricity price will be RMB 1 yuan/kwh at the market price and the annual sales income can reach RMB33.5million yuan. The return rate is 13.84% and the investment payback time is 8.63 years.</td></tr>
<tr><td>Usage of Products</td><td colspan="5">The project aims at meeting the growing power demand.</td></tr>
<tr><td>Market Prospect</td><td colspan="5">First, the source of energy can be guaranteed; second, the boost to the demand of power is huge; third, as the exhaustion of one-off energy, solar power generation has great potentials and will gradually become the main supplier of power market.</td></tr>
<tr><td>Project Constriction Conditions</td><td colspan="5">Firstly, it has a suitable site and enjoys convenient transport since it is close to No.214 National Highway and is 5 km away from Qiapuqia, at which the government of Hainan Prefecture is located, newly- built industry development zone and the substation. Secondly, the investment and cost will have a great potential. Thirdly, solar power generation has obvious environmental benefit since it has no pollution and can reduce the radiation of sunshine to the surface.</td></tr>
<tr><td>Preliminary Project Conditions</td><td colspan="5">The Feasibility Report of the project has been completed.</td></tr>
<tr><td>Enterprise Description</td><td colspan="5"></td></tr>
<tr><td>Enterprise Address</td><td colspan="3"></td><td>Legal Representative</td><td></td></tr>
<tr><td>Contact Unit</td><td colspan="3">Economic Cooperation Office of Hainan Prefecture Government, Qinghai Province, P. R. China</td><td>Contact Person</td><td>Wu Yongfei</td></tr>
<tr><td>Telephone</td><td colspan="3">+86 974 8521647 +86 974 8516988</td><td>Postcode</td><td>813000</td></tr>
<tr><td>E-mail</td><td colspan="3">hnzsj6988@163.com</td><td>Fax</td><td>+86 974 8521648</td></tr>
</table>

## 6. Project of Solar PV Power Station in Hainan Prefecture

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Hainan Prefecture is in a favorable condition of high altitude, plenty of sunshine, abundant solar energy resources. With the annual average sunshine ranging from 2,314 hours to 3,500 hours, percentage of sunshine ranging from 53% to 80% and whole sunshine radiation between 2,314 and 3,500 MJ/$m^2$, it has great sunshine potentials only second to Tibet in China as a whole and it is called " Sunbelt Area". According to the 12th Five-year Plan of Hainan Prefecture, it is planned to construct the grid-PV Industry Park of Talatan Grassland in Gonghe County and of Mugetan Grassland in Guinan County and synchronized PV Power Station in Daotanghe River, Qieji in Gonghe County and Shanpingtai in Guide County. | | | | |
| **Total Project Investment (RMB 100 million)** | 480 | **Investment Needed (RMB 100 million)** | 480 | **Cooperation Form** | Exclusive ownership |
| **Economic Benefit** | The project conforms to the policies of the development of Solar PV Industry and has been included in the overall regional economic development plan with the obvious economic and social benefits. | | | | |
| **Usage of Products** | | | | | |
| **Market Prospect** | With the rapid socioeconomic development of China and the prominence of the problems like energy safety, energy shortage and pollution, it has become the main stream to vigorously develop clean energy like solar power. The exhaustible renewable resources will have great potentials with the support of governmental policies and financial aid. | | | | |
| **Project Constriction Conditions** | | | | | |
| **Preliminary Project Conditions** | The project has been listed in the 12th Five-year Plan of Hainan Prefecture, and investors can choose the site freely in the defined area. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Cooperation Office of Hainan Prefecture Government, Qinghai Province, P. R. China | | **Contact Person** | Wu Yongfei | |
| **Telephone** | +86 974 8521647 +86 974 8516988 | | **Postcode** | 813000 | |
| **E-mail** | hnzsj6988@163.com | | **Fax** | +86 974 8521648 | |

## 7. Project of Solar Energy LED Products and High Mast Lighting Devices of Wind and Light Complement

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the production lines of solar energy LED street lamps and high mast lamps of wind and light complement by utilizing solar PV industry based at Dongchuan Industrial Park. The main raw materials are high-power LEDs, solar batteries storage batteries which are provided by enterprises in Dongchuan Industrial Park and Aluminum Profiles which can be purchased from the market. | | | | |
| **Total Project Investment (RMB 100 million)** | 3 | **Foreign Investment Needed (RMB 100 million)** | 3 | **Cooperation Form** | Exclusive ownership, joint venture or cooperation |
| **Economic Benefit** | Upon putting into production, the project can achieve an annual sales income of RMB 1 billion *yuan* with a profit of RMB 150 million *yuan*. | | | | |
| **Usage of Products** | Solar energy draws more and more attention since it is an inexhaustible safe energy. Meanwhile with the progress of PV technology and the advantages of solar energy LED products in both environmental protection and energy saving, the application of solar energy street lamps, yard lamps and lawn lamps, etc. has formed scales and the development of the solar power generation in street illumination area is improving. The products are widely used in lighting projects in urban-rural areas, lighting projects in new-countryside construction and modification projects of traditional lamps. | | | | |
| **Market Prospect** | With the shortage of power supply and the gradual introduction of policies relating to energy saving and mitigation of greenhouse gases, the large-scale popularization of solar power lamps and LEDs has more and more sufficient conditions. Solar power lamp is the ideal lighting and appreciated by customers, and it can be widely used in residential areas, squares, roads, yards, parks, stadiums, etc. | | | | |
| **Project Constriction Conditions** | It is planned to construct the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone, which is 5 km away from the downtown areas of Xining City, one of the national development zones at a closest location from the city's downtown area. Approved by the State Council in July 2000, it has an area of 12.79 km2. An investment of RMB 470million yuan has been put into the zone's facility construction. A total of 16 roads with the length of 13.4 km and width of 18 to 30 m have been built The main highway of Xining City, Southern Circle Expressway and Bayi Road, traverse through the development zone and there are 2 entrances of Lanzhou-Xining Expressway to form a complete road network in the development zone. The infrastructure is complete here with sufficient water, drainage, power, natural gas supply, communication CATV and broadband. | | | | |
| **Project Process** | *The Project Feasibility Report* will be entrusted to complete. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 8. Project of Comprehensive Utilization of Power Plant

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned for the Thermal Coal Industrial Park to have an annual coal washing capacity of 30 million tons in the long run, and it will produce annual 6 million tons of gangue. According to the recycle economic mode, low calorific value products (gangue, slime, coal, etc.) produced by coal field are completely used to establish a large circulating fluidized bed gangue generators of high efficiency and large capacity (2×300,000KW) and matching cogeneration heat supply engineering project. | | | | |
| **Total Project Investment (RMB 100 million)** | 30 | **Foreign Investment Needed (RMB 100 million)** | 30 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | After the completion of the project, there will be an annual sales income of RMB 5 million *yuan* and total profit of RMB 140 million *yuan*, and the investment–reclaiming period is 9 years. The investment profit rate is 8.5%. | | | | |
| **Usage of Products** | Industrial and residential power and heat supply. | | | | |
| **Market Prospect** | Due to a rapid economic growth in Qinghai, power energy supply cannot meet the need of increasing electricity consumption. Gangue is utilized in the construction of thermal power plant. Those coal washing and other enterprises in the Thermal Coal Industrial Park are important customers of power products. Besides, thermal power plant supplies electricity to the local enterprises, and the remained power is linked with the State Grid. | | | | |
| **Project Construction Conditions** | There are adequate power generation raw materials in Qinghai Thermal Coal Industrial Park, including gangue, coal, slime and its highway and railway transportation is convenient. | | | | |
| **Preliminary Project Conditions** | It has been listed in the 12th Five-year Industrial Plan of Haibei Tibetan Autonomous Prefecture and Development Plan of Centralized Gangcha Industrial Zone. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | | | **Legal Representative** | | |
| **Contact Unit** | Economic & Trade Commission of Haibei Tibetan Autonomous Prefecture | | **Contact Person** | Liu Zongyu | |
| **Telephone** | +86 970 8645002 | | **Postcode** | 810200 | |
| **E-mail** | hbjmwlzy@163.com | | **Fax** | +86 970 8642132 | |

## 9. Project of Wind Power Generation

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Power generated by wind is a clean, green and renewable energy. It is planned to establish a wind power plant with the installed capacity of 20×4MW in Gangcha County or Haiyan County of Haibei Tibetan Autonomous Prefecture in Qinghai Province | | | | |
| **Total Project Investment (RMB 100 million)** | 8 | **Foreign Investment Needed (RMB 100 million)** | 8 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | After the completion of the project, there will be an annual sales income of RMB 360 million *yuan*, average annual profit and tax of RMB 100 million *yuan*, and the investment-reclaiming period is 15 years. | | | | |
| **Usage of Products** | Power generation by wind source | | | | |
| **Market Prospect** | | | | | |
| **Project Construction Conditions** | Haibei Tibetan Autonomous Prefecture is abundant in its wind resource with mean wind speed being over 2 m/s, annual available wind resource being over 4,000 to 6,300 hours, high wind density, thus, the above-mentioned construction requirements of wind power can be met. | | | | |
| **Preliminary Project Conditions** | It has been listed in the 12th Five-year Industrial Plan of Haibei Tibetan Autonomous Prefecture. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | | | **Legal Representative** | | |
| **Contact Unit** | Economic & Trade Commission of Haibei Tibetan Autonomous Prefecture | | **Contact Person** | Liu Zongyu | |
| **Telephone** | +86 970 8645002 | | **Postcode** | 810200 | |
| **E-mail** | hbjmwlzy@163.com | | **Fax** | +86 970 8642132 | |

## 10. Project of Annual Production of 500,000 Solar Energy Photovoltaic Cells

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project covers an area of 50 *mu* with production line construction of annual 500,000 solar energy photovoltaic cells. | | | | |
| **Total Project Investment (RMB 100 million)** | 0.5 | **Foreign Investment Needed (RMB 100 million)** | 0.4 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | There will be an increased sales income of RMB 2.5 billion *yuan* after the completion of the project. | | | | |
| **Usage of Products** | Photovoltaic power generation | | | | |
| **Market Prospect** | It is planned to extend the production chain for exploring civilian photovoltaic power generation market through combining monocrystalline silicon with polycrystalline silicon production capacity of Dongchuan Industrial Park. In most parts of the western region, electrical problem of residents in some ethnic minority regions can be addressed through photovoltaic power generation. | | | | |
| **Project Construction Conditions** | The project area boasts complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, and broadband network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area in which the Xinzhuang Super Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Preliminary Project Conditions** | *Pre-feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | No.26, Chuangye Road, Xining, Qinghai | | | **Legal Representative** | Huang Guojun |
| **Contact Unit** | Economic Development Bureau of Nanchuan Industrial Park | | | **Contact Person** | Cao Chengxiao |
| **Telephone** | +86 971 6513901 | | | **Postcode** | 810001 |
| **E-mail** | | | | **Fax** | +86 971 6513901 |

## 11. Project of Annual Production of 1 million Auto-specialized Lithium Storage Batteries

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project will cover an area of 100 mu with the production line construction of annual 1 million auto-specialized lithium storage batteries. | | | | |
| **Total Project Investment (RMB 100 million)** | 5 | **Foreign Investment Needed (RMB 100 million)** | 5 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | A total of RMB 2 billion yuan sales income will be generated after the completion of the project. | | | | |
| **Usage of Products** | It is a key component of electric cars. | | | | |
| **Market Prospect** | With the continuous development of new energy and green economy, there is an increasing need for environmentally–friendly cars. Green Lithium battery is indispensable part of environmentally–friendly cars. Currently, the automobiles' in possession total 170 million, of which, the private ones account for 76.49%. Therefore, the products will witness a prosperous market. | | | | |
| **Project Construction Conditions** | The project area boasts complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, and broadband network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area in which the Xinzhuang Super Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Preliminary Project Conditions** | *Pre-feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | No.26, Chuangye Road, Xining, Qinghai | | | **Legal Representative** | Huang Guojun |
| **Contact Unit** | Economic Development Bureau of Nanchuan Industrial Park | | | **Contact Person** | Cao Chengxiao |
| **Telephone** | +86 971 6513901 | | | **Postcode** | 810001 |
| **E-mail** | | | | **Fax** | +86 971 6513901 |

## 12. Project of Annual Production of 10,000 High-capacity Lithium Storage Batteries

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project will cover an area of 100 mu with the production line construction of annual 10 thousand high-capacity lithium storage batteries. | | | | |
| **Total Project Investment (RMB 100 million)** | 5 | **Foreign Investment Needed (RMB 100 million)** | 5 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | A total of RMB 1 billion *yuan* sales income will be generated after the completion of the project. | | | | |
| **Usage of Products** | The products are used for storing the power generated by new energy. | | | | |
| **Market Prospect** | The storage device is in urgent demand with the development of new energy and green economy. Meanwhile, the power generated from photovoltaic and wind power stations cannot be utilized until being stored and processed by storage device. Therefore, as a necessary component, the storage device is in urgent demand. The lithium will be an optimal device since it is easy to be transported. | | | | |
| **Project Construction Conditions** | The project area boasts complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, and broadband network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area in which the Xinzhuang Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Preliminary Project Conditions** | *Pre-feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | No.26, Chuangye Road, Xining, Qinghai | | **Legal Representative** | Huang Guojun | |
| **Contact Unit** | Economic Development Bureau of Nanchuan Industrial Park | | **Contact Person** | Cao Chengxiao | |
| **Telephone** | +86 971 6513901 | | **Postcode** | 810001 | |
| **E-mail** | | | **Fax** | +86 971 6513901 | |

# VI. Electronic Materials

## 1. Project of Lithium Cell Septum

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to set up a lithium cell septum production line project with an annual production of 25,000,000 ㎡. | | | | |
| **Total Project Investment (RMB 100 million)** | 4 | **Foreign Investment Needed (RMB 100 million)** | 4 | **Cooperation Form** | Exclusive ownership, cooperation |
| **Economic Benefit** | There will be annual sales revenue of RMB 700 million *yuan* and annual profit and tax of RMB140million *yuan* after the project becomes fully operational. | | | | |
| **Usage of Products** | It is to produce Lithium cells. | | | | |
| **Market Prospect** | Lithium cell consists of electrode, electrolyte and polymer septum. Lithium cell septum has a great impact on the safety and cost of the cells (about 20% of the cost of the whole cell). As a high & new technical material, this septum makes a great economic profit. Take polypropylene, for example, its raw material costs RMB 8,000 *yuan* per ton, but when it is processed into septum, it is worth RMB 3 million *yuan* per ton. Lithium cell septum, as micro–porous membrane, can be widely used in membrane separation industry, pure chemical separation in the fields such as pharmacy, chemical industry and biology, etc. It is high-new tech product with a great market prospect and high added value. The raw materials that are used during the production of lithium cell can almost be purchased domestically, except polymer septum which relies on complete import. In 2004, there were 600 million mobile phones that used lithium cells merely in China, costing RMB 600 million *yuan* to import the needed septum. | | | | |
| **Project Construction Conditions** | The project area boasts its complete infrastructure, including water supply, drainage, power supply, gas supply, communications, cable television, broad band network of computer. Meanwhile, the Xining-Kumbum Monastery Highway and Xining-Jiuzhi Highway go through the area in which the Xinzhuang Highway lies, thus the transportation of the project area is convenient. Meanwhile, a 330 transformer and two 110 transformers can meet the living and production requirements in the project area. The industrial park is an important intensive and further processing base for preponderant resources on Qinghai-Tibet Plateau and has a great investment potential and value. | | | | |
| **Project Process** | *Pre-feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | | | | | |
| **Contact Address** | No.26, Chuangye Road, Xining, Qinghai, P. R.C. | | **Legal Representative** | Huang Goujun | |
| **Contact Unit** | Economic Development Bureau of Nanchuan Industrial Park | | **Contact Person** | Chengxiao Cao | |
| **Telephone** | +86 971 6513901 | | **Post Code** | 810001 | |
| **E-mail** | | | **Fax** | +86 971 6513901 | |

## 2. Project of Annual Production of 7.2 Million Square Feet of Multilayer PCB

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to adopt advanced and mature domestic manufacturing technology to produce multilayer PCB and PCB specific device can be completely provided at home. But some key devices such as pressing machine need to be introduced from Europe, America and Japan. The project is planned for the production capacity of monthly 60,000 feet$^2$ of PCB, and the construction period is set for 1 year. It covers an area of 120 *mu*. The project of Dongchuan Industrial Park to produce annual 25,000 tons of high quality electrolytic copper foil has been partially operational, forming a complete set of production chain of electrolytic copper foil, copper-clad board and printed-circuit board. | | | | |
| **Supply of Resources and Raw Materials** | The main raw and secondary materials used in production are as follows： slab, copper foil, pre–immersed slab, printing ink, aluminum flate sheet, sulphuric acid, hydrochloric acid, auric salt, copper ball, nitric acid, sodium hydroxide, high molecule coagulant, hardener, wet film and all kinds of medicinal liquids, etc. At the initial stage, part of the raw materials needs to be imported. However, when the quality of domestic raw materials can meet the production requirement, local products will be considered preferably. | | | | |
| **Total Project Investment (RMB 100 million)** | 6.6 | **Total Project Investment (RMB 100 million)** | 6.6 | **Total Project Investment (RMB 100 million)** | 6.6 |
| **Economic Benefit** | It is estimated to reach an annual sales revenue of RMB 86 million *yuan* and profit of RMB13 million *yuan*. The internal rate of return on investment will be 21.45%. Investment recovery period is 6.08 years (construction period included, all after tax). | | | | |
| **Usage of Products** | The product is widely used in telecommunications, mobile telecommunications, instruments and meters, computers, digital television, digital audio, radar, etc. | | | | |
| **Market Prospect and the Necessity of the Project** | PCB is one of the important electronic materials in Information Industry. With rapid development of Information Industry, demand of PCB has been increased, no matter in terms of quality or quantity. High performance PCB has been listed as main developing product in the "the 11$^{th}$ Five-year Plan", and it is in conformity with national industrial policy. In 2006, global PCB reached a market size of ＄45.1billion, and ＄51.7 billion in 2008. According to IEK Center of Industrial and Technological Research Institute (Taiwan), investigation and statistics of the pattern of global PCB in April, 2006 showed that Asia–Pacific region had become the core of global PCB industry in future, especially China's mainland witnessed the strongest momentum. The overseas market is under continuous growth, and with rapid development of computer industry in our country, it will maintain the same growth momentum with electric products in the world with regard to demand. Therefore, it is quite necessary to build this project. | | | | |
| **Project Construction Conditions** | The project will be established in Dongchuan Industrial Park of Xining Economic and Technological Development Zone (National level). The industrial park is located in the east of Xining, the provincial capital of Qinghai. It covers an area of 12.79 km$^{2,}$ 4 km away from train station and freight terminal, 12 km from airport, 8 km from the center of the city. Lanzhou–Xining Highway runs through the area. It has an evident regional priority. This park is a specialized park to mainly develop silicon material photovoltaic industry and further processing industry of light alloy metal. There is a complete set of infrastructure, and established water supply, drainage, electric power, gases, telecommunications, CATV and broadband network that conform with road network. There are one substation of 330 kv, 2 substations of 110 kv, the drainage capacity per day reaches 185,000 tons, annual gas transmission capacity of 600 million cube to completely meet the demand of investors' production and living. The industrial park has become an important industrial processing and manufacturing base of the competitive resources on Qinghai-Tibet Plateau with a great investment value and development potential. | | | | |
| **Project Process** | *Feasibility Report* of the project has been accomplished. | | | | |
| **Contact Unit** | Xining Economic Corporation Office | | **Contact Unit** | Xining Economic Corporation Office | |
| **Telephone** | +86 971 8237743 | | **E-mail** | Qh2008li@163.com | |
| **E-mail** | Ysm678@163.com | | **Fax** | +86 971 8281265 | |

### 3. Project of Annual Production of 5million $m^2$ of Solar Power Photovoltaic Glass

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is publicly recognized nationwide that the comprehensive development and exploitation of solar power in Qinghai takes a lead in China. Great development of that solar power industry has become a key point for Qinghai to develop its featured advantageous industry and economic restructuring, and will be mainly supported as a new pillar industry. In 2009, Dongchuan Industrial Park of Xining Economic and Technological Development Zone was certified by Ministry of Science and Technology as state solar power photovoltaic high-tech industrialization base. Centering on base construction, we propose to establish a project of annual production of 5 million ㎡ solar power photovoltaic glass. The project will adopt advanced and mature technology in the project area of 50 *mu* and its construction will be completed in 2 years. | | | | |
| **Supply of Resources and Raw Materials** | The raw materials the project uses are mainly solar power photovoltaic raw glass sheet, aluminum structure, etc., and they're mainly purchased from big domestic suppliers. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.5 | **Foreign Investment Needed (RMB 100 million)** | 1.5 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | There will be annual sales revenue of RMB 300 million *yuan* and 26% of the rate of internal return on investment. Investment recovering period is 2 years (construction period included). | | | | |
| **Usage of Products** | Being named as a promising material, high quality solar power photovoltaic is featured with its high luminousness, high strength, low iron content, low light reflection. It is an important component of solar power photovoltaic generation system. | | | | |
| **Market Prospect and the Necessity of the Project** | In 2010, the market of solar power photovoltaic glass hit 150 million ㎡ in the world, while the domestic market was mainly policy-oriented demonstration project. According to the goal of "the 12th Five-year Plan", the production capacity of photovoltaic module of Xining National Solar Power Hi-New Tech Industrialization Base will reach 2000 MW. If 1MW needs 7,000－7,500 ㎡ of solar power photovoltaic glass, it is calculated that 2,000 MW needs 15 million ㎡ of it. There will be a huge market potential. | | | | |
| **Project Construction Conditions** | The project will be established in Dongchuan Industrial Park of Xining Economic and Technological Development Zone (National level). The industrial park is located in the east of Xining, the provincial capital of Qinghai. It covers an area of 12.79 $km^2$, 4 km away from railway station and freight terminal, 12 km from airport, 8 km from the center of the city. Lanzhou–Xining Highway runs through the area. It has an evident regional priority. This park is a specialized park to mainly develop silicon material photovoltaic industry and further processing industry of light alloy metal. There is a complete set of infrastructure, and established water supply, drainage, electric power, gases, telecommunications, CATV and broadband network that conform with road network. There are one substation of 330 kv, 2 substations of 110 kv, the drainage capacity per day reaches 185,000 tons, annual gas transmission capacity 600 million cube to completely meet the demand of investors' production and living. The industrial park has become an important industrial processing and manufacturing base of the competitive resources on Qinghai-Tibet Plateau with a great investment value and development potential. | | | | |
| **Preliminary Project Conditions** | *Feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | It is planned for the investment promotion and no specific enterprise has been identified to engage in it. | | | | |
| **Contact Address** | No. 38, Jinqiao Road, Xining Economic & Technological Development Zone | | | | |
| **Contact Unit** | Economic Development Bureau of Dongchuan Industrial Park | | **Contact Person** | Qun Cui, Hanxiao Jing | |
| **Telephone** | +86 971 817777/8817555 | | **Post Code** | 810007 | |
| **E-mail** | xnkfqdc@xnkfq.gov.cn | | **Fax** | +86 971 8125196 | |

## 4. Project of Annual Production of 2 billion Pieces of Aluminum Electrolytic Capacitor

<table>
<tr><td>Project Description</td><td colspan="5">It is planned to establish the project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone. The park will develop and support new material industry as one of the mainstay industries. Focusing on this, we have introduced many strong and famous aluminum electrolytic capacitor enterprises to invest in the park, with the planned production capacity of 50,000 ㎡. In order to make it big and strong and extend the production chain, we've proposed a project of annual production of 2 billion aluminum electrolytic capacitor. The project will adopt advanced technology in the same field. The project covers an area of 50 mu, and the construction period is set for 2 years.</td></tr>
<tr><td>Resources and Raw Materials</td><td colspan="5">Raw materials the project needs are as follows: solar power photovoltaic sheet, aluminum, steel members, etc., and all can be purchased from big domestic suppliers.</td></tr>
<tr><td>Total Project Investment (RMB 100 million)</td><td>1</td><td>Foreign Investment Needed (RMB 100 million)</td><td>1</td><td>Cooperation Form</td><td>Exclusive ownership, Joint venture, cooperation</td></tr>
<tr><td>Economic Benefit</td><td colspan="5">There will be annual sales revenue of RMB 350 million yuan and 35.6%of rate of internal return on investment. The investment recovery period is 1 year and half (construction period excluded).</td></tr>
<tr><td>Usage of Products</td><td colspan="5">With the features of small size and large capacity, aluminum electrolytic capacitor is unique in electronics industry. It is widely used in such products as computer, printer, copier, telecommunications device, television, air conditioner, etc. it is irreplaceable electronic element that has the widest use. Its yield accounts for 40% of the electronic component with a great market potential.</td></tr>
<tr><td>Market Prospect and the Necessity of the Project</td><td colspan="5">In 2004, the yield of aluminum electrolytic capacitor reached 70 billion pieces, accounting for 40% of the output of the whole world. Its sales volume was RMB 7 billion yuan. The domestic market demand was nearly 85.5 billion pieces, with a market size of RMB 8.6 billion yuan. In 2009, the yield of aluminum electrolytic capacitor was 130 billion in China, sales volume of RMB 11.5 billion yuan. So it has a great market potential.</td></tr>
<tr><td>Project Construction Conditions</td><td colspan="5">The project is constructed in Dongchuan Industrial Park of Xining（National Level） Economic & Technological Development Zone and the planned area of the park is 12.79 km2. The infrastructure is complete here with sufficient water supply, drainage, power supply, natural gas supply, communication, CATV and broadband, as well as convenient road network. Therefore, the production and living requirements of investors could be completely met. Furthermore, the park is an important precision & intensive processing base of advantageous resources on the Qinghai-Tibet Plateau with a great investment value and potentials.</td></tr>
<tr><td>Preliminary Project Conditions</td><td colspan="5">Feasibility Report is being prepared.</td></tr>
<tr><td>Enterprise Description</td><td colspan="5">It is planned for the investment promotion and no specific enterprise has been identified to engage in it.</td></tr>
<tr><td>Contact Address</td><td colspan="5">No. 38, Jinqiao Road, Xining Economic & Technological Development Zone</td></tr>
<tr><td>Contact Unit</td><td colspan="2">Economic Development Bureau of Dongchuan Industrial Park</td><td>Contact Person</td><td colspan="2">Cui Qun,<br>Jing Hanxiao</td></tr>
<tr><td>Telephone</td><td colspan="2">+86 971 8817777/8817555</td><td>Post Code</td><td colspan="2">810007</td></tr>
<tr><td>E-mail</td><td colspan="2">xnkfqdc@xnkfq.gov.cn</td><td>Fax</td><td colspan="2">+86 971 8125196</td></tr>
</table>

## 5. Project of Annual Production of 800 million High Brilliance LED Chips

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to establish this project in Dongchuan Industrial Park of Xining Economic & Technological Development Zone. The park attaches its great importance to the development and support of new material industry as one of the mainstay industries. Focusing on this, we have introduced many capable and famous enterprises（polycrystalline silicon, monocrystalline silicon, sheet LBD, LED CFL, etc.）to invest in the park. In order to make the new material industry big and strong and extend industrial chain, we've proposed to build the project of annual production of 800 million of high brilliance LED chips. The project will adopt high-power semiconductor illuminant technology. The product is of good quality, and high production efficiency. The project covers an area of 50 *mu* and the construction period is set for 2 years. | | | | |
| **Resources and Main Raw Materials Supply** | The upper stream raw material is electron monocrystalline silicon. Qinghai China Silicon Energy Co. Ltd. produces 500 tons of electron monocrystalline silicon, 60million slices per year; the project of 2000 tons monocrystalline silicon of the ongoing Sunshine Energy Co. Ltd.; Qinghai Energy Silicon Macalot Co., Ltd. produces 3,500 tons of monocrystalline silicon. All these provide good resources and adequate raw materials for the implementation of the project. | | | | |
| **Total Project Investment (RMB 100 million)** | 2 | **Foreign Investment Needed (RMB 100 million)** | 2 | **Cooperation Form** | Exclusive ownership, Joint venture, cooperation |
| **Economic Benefit** | There will be annual revenue of RMB 2 billion *yuan* and the rate of internal return on investment is 37%. The investment recovering period is set for 2 years (construction period excluded). | | | | |
| **Usage of Products** | LED chip, named as LED brilliant chip, is core part of the LED light. | | | | |
| **Market Prospect and the Necessity of the Project** | In recent years, LED industry is in blowout period. Only in Guangdong, there are three cities (Shenzhen, Dongguan, Foshan) to develop the LED industry as a new mainstay industry. But the relevant weakness of the big capacity of downstream package field and upstream LED chip field has become a serious hidden danger. Thus, it is a necessary adoption to march into the upstream LED chip field. Recently, semiconductor LED technology has witnessed a rapid development, while the reform of new light source has brought great market demand, making the semiconductor LED industry enter into the field of illumination, becoming an attentive heat in the development of the industry. It is named as the Green Industry in the 21$^{st}$ century. | | | | |
| **Project Construction Conditions** | The project is constructed in Dongchuan Industrial Park of Xining（National Level）Economic & Technological Development Zone and the planned area of the park is 12.79 km$^2$. The infrastructure is complete here with sufficient water supply, drainage, power supply, natural gas supply, communication, CATV and broadband, as well as convenient road network. Therefore, the production and living requirements of investors could be completely met. Furthermore, the park is an important precision & intensive processing base of advantageous resources on the Qinghai-Tibet Plateau with a great investment value and potentials. | | | | |
| **Preliminary Project Conditions** | *Feasibility Report* is being prepared. | | | | |
| **Enterprise Description** | It is planned for the investment promotion and no specific enterprise has been identified to engage in it. | | | | |
| **Contact Address** | No. 38, Jinqiao Road, Xining Economic & Technological Development Zone | | | | |
| **Contact Unit** | Economic Development Bureau of Dongchuan Industrial Park | | **Contact Person** | Qun Cui, Hanxiao Jing | |
| **Telephone** | +86 971 817777/8817555 | | **Post Code** | 810007 | |
| **E-mail** | xnkfqdc@xnkfq.gov.cn | | **Fax** | +86 971 8125196 | |

# VII. New Materials

## 1. Extending Production Line of New Wall Material of Autoclaved Flyash-lime with Annual Production of 200million Pieces

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct production workshops, raw material storages, dewatering workshop and boiler room, etc., which covers the building area of 17,280 ㎡ and to purchase 35 sets of proportioning machine, hydraulic brick machine, etc. and other auxiliary facilities like boilers and so on. | | | | |
| **Total Project Investment (RMB 100 million)** | 0.28 | **Foreign Investment Needed (RMB 100 million)** | 0.12 | **Cooperation Form** | Cooperation or joint venture |
| **Economic Benefit** | Upon putting into production, the project can achieve an annual sales revenue of RMB 24.58 million *yuan* with a profit of RMB 6.41 million *yuan*. The tax expense is RMB 1.33 million *yuan* and the payback time is set for 4.74 years. | | | | |
| **Usage of Products** | Autoclaved flyash-lime brick is one kind of solid flyash-lime bricks made by preparing, compressing and molding and high temperature steam curing the raw materials of fly ash, lime, plaster and aggregate. It is widely used in wall materials of the industrial and civilian buildings with the features of light weight, high strength and low cost. | | | | |
| **Market Prospect** | The statue of China has prohibited use of solid clay bricks since 2006. So there will be 43 clay brick plants to be shut down. That leaves the market gap between supply and demand up to more than 500 million. Thus the market for new wall materials will be promising. | | | | |
| **Project Constriction Conditions** | This project will make use of "three wastes" (waste gas, waste water and waste residues) discharged by enterprises in Ganhe Industrial Park comprehensively, realizing the recycle use of industrial residues, energy-saving and environmental protection, and it is an industry to be encouraged by the state. The fly ash of Qinghai Qiaotou Thermal Power Plant and carbide slag of Qianxin Chemical Plant would provide adequate raw materials. | | | | |
| **Preliminary Project Conditions** | The first phase of the project has been started. | | | | |
| **Enterprise Description** | Qinghai Wanyuan Industry and Trade Base is the leading enterprise of the industrialization of agriculture and livestock husbandry at the state's level, which has been nominated as "*Advanced Private Enterprise*", "*Qinghai Star Enterprise*", etc. many times by Qinghai CPC Committee and the People's Government of Qinghai. So far, the enterprise has 9 economic entities with its assets up to RMB 90 million yuan. | | | | |
| **Enterprise Address** | Xipu Town of Huangzhong County, Qinghai, P.R.China | | | **Legal Representative** | Lu Wanyuan |
| **Contact Unit** | Xining Economic Cooperation Office | | | **Contact Person** | Li Li |
| **Telephone** | 0086 971 8237743 | | | **Postcode** | 810000 |
| **E-mail** | Qh2008li@163.com | | | **Fax** | 0086 971 8237743 |

## 2. Project of 150,000 t/y Fly Ash Pulp and Its Products

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project is the deep processing of fly ash by using fly ash, coke, lime and basalt as raw materials, which will produce fly ash pulp of 150,000 t/y, kraft paper of 80,000 t/y, corrugated paper of 80,000 t/y and newsprint paper of 50,000 t/y. The annual output of fly ash produced by Qinghai Qiaotou Thermal Power Plant and Qinghai China Power Plant reaches 1million tons, Datong County is rich in lime and basalt and Qinghai is rich in coke. All these guarantee the adequate raw material supply. | | | | |
| **Total Project Investment (RMB 100 million)** | 6.68 | **Foreign Investment Needed (RMB 100 million)** | 6.68 | **Cooperation Form** | Exclusive ownership, joint venture or cooperation, |
| **Economic Benefit** | It is estimated that the project will achieve annual sales revenue of RMB 728 million *yuan* with a profit of RMB 92 million *yuan*. | | | | |
| **Usage of Products** | Fiber made from fly ash is one kind of high-performance inorganic fibers, which is mainly used for producing fly ash pulp, thermal insulation of building roof and wall and external thermal insulation of devices. | | | | |
| **Market Prospect** | Fly ash ultrafine fiber can take the place of inorganic thermal insulating materials like glass fiber, etc. used in building thermal insulating field and can be made into fly ash pulp by adding 20-50% into pulp used in paper production. It is predicted that fly ash ultrafine fiber will increase by 15% in the world and by 20% in China from 2010 to 2015. In 2015, the domestic production will be about 680,000 tons, excluding the amount of fly ash ultrafine fiber used in producing pulp. According to statistics, the market demand of inorganic thermal insulating material is about 75 million t/y. As fly ash fiber is gradually accepted by the public, its market potential is great. Some experts predict that the domestic demand of fly ash fiber will grow in step with its productivity at the speed of 25%. It is estimated that the paper demand will increase at the speed of 8.5% or so from 2010 to 2015 and will reach 137 million t/y in 2015. The market of fly ash fiber and pulp and paper products is promising. Datong country is rich in raw materials like fly ash, basalt, lime, etc. and the development of fly ash deep processing industry has the advantages of preferential policy, technology, resources and geography. It is of great importance that the construction of the project will transform the regional advantages of Qinghai into economic advantages. | | | | |
| **Project Constriction Conditions** | It is planned to construct the project in Beichuan Industrial Park of Datong Country. The industrial park enjoys predominant geological location and convenient transport as Ningzhang Expressway, Xining-Datong Expressway and Lanzhou-Xining Expressway, Xining-Huangzhong First-class Expressway, G109 National Highway connect with each other, Ningzhang By-line Railway integrates with Lanzhou-Qinghai Railway and Qinghai-Tibet Railway around the park and the planned Lanzhou-Xinjiang Railway will pass by from the east of the park. Beichuan River with a net annual flow of 608 million $m^3$ and $7^{th}$ water pipeline of Xining with a daily capacity of 300,000 $m^3$ traversing the park can provide adequate water supply. The project will also enjoy a sufficient power supply from the 330KV loop network structure composed by Huangshizhai Transformer Substation (4×240,000 kvA), the second phase of Jingyang Transformer Substation (4×240,000 kvA) and 110KV Sunjiazhai Transformer Substation (2×40,000 kvA). The gas supply will also meet the demand as the gas pipelines go through the park with a transmission capacity of 34,000 $m^3$/h and a long-term transmission capacity of 12,500 $m^3$/h. | | | | |
| **Preliminary Project Conditions** | The *Project Feasibility Report* has been completed for investment attraction. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | 0086 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | 0086 971 8237743 | |

## 3. Project of 60 million piece/year of Gangue Hollow Bricks

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to produce full coal gangue fired bricks through taking coal gangue as a raw material, using advanced automatic fire brick production line combined with the most advanced tunnel kiln sintering. A hollow brick plant with a capacity of 90 million per year will be constructed, which will cover an occupancy area of 50,000 ㎡ and a building area of 13,000 ㎡. | | | | |
| **Total Project Investment (RMB 100 million)** | 0. 8 | **Foreign Investment Needed (RMB 100 million)** | 0.8 | **Cooperation Form** | Cooperation, or exclusive ownership |
| **Economic Benefit** | Upon putting into production, the project can achieve annual sales revenue of RMB 20 million *yuan* with a profit of RMB 6 million *yuan* and the payback period is set for 4 years. | | | | |
| **Usage of Products** | Products will be used in building construction materials. | | | | |
| **Market Prospect** | The project enjoys the market potential since the demand of redbrick in Qinghai building market is 150 million pieces per year, which equals 70 million pieces hollow bricks. | | | | |
| **Project Constriction Conditions** | The construction site of the project is in Qinghai Thermal Coal Industrial Park, which enjoys adequate coal gangue and convenient transport. | | | | |
| **Preliminary Project Conditions** | The project has been listed in the 12th Five-year Plan of Industry of Gangcha Country. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Economic Cooperation Office of Haibei Prefecture ,Qinghai Province, P. R. China | | **Contact Person** | Liu Zongyu | |
| **Telephone** | 0086 970 8645002 | | **Postcode** | 810200 | |
| **E-mail** | hbjmwlzy@163.com | | **Fax** | 0086 970 8642132 | |

## 4. Integrated Utility of Industrial Wastes Project

| | | | | |
|---|---|---|---|---|
| **Project Description** | It is planned to construct a production line and its auxiliary equipment which will produce 5 million pieces of non-burning bricks per year and 1 million tons of new wall materials per year. | | | |
| **Cooperation Form** | Exclusive ownership, joint venture or cooperation, | | | |
| **Total Project Investment** | RMB 250 million *yuan* | | | |
| **Foreign Investment Needed** | | | | |
| **Estimated Economic Benefit** | Upon putting into production, the project can achieve annual sales revenue of RMB 500 million *yuan* with a tax expense of RMB 40 million *yuan*. | | | |
| **Usage of Products** | Products will be mainly used in building construction field, which are environmentally-friendly. | | | |
| **Project Constriction Conditions** | It is planned to construct the project in Ganhe Industrial Park of Xining Economic & Technological Development Zone, which is in Ganhetan Town of Huangzhong County and is 35 km from the downtown area of Xining City. Approved by the Qinghai Provincial Government in December 2005, the project has an area of 34 $km^2$. The park attracts investors from both home and abroad through relying on the rich mineral resources, water and power resources, function-matching infrastructure and preferential policies, vigorously developing non-ferrous melting industry, chemical industry, industrial chain extension project and high-tech project. In accordance with the government guidance, the market mechanism, and production, research & development mode, taking enterprises as the mainstay, the institutional innovation and technological innovation as the driving force, we are devoting to developing the park into a new industrial park which integrates scientific research and development, forming accumulative and driven effects. | | | |
| **Preliminary Project Conditions** | The pre-project work such as the compiling of feasibility report is undergoing. | | | |
| **Preferential Policies of Project** | Preferential policies will be executed according to *Some Preferential Policies and Measurement on Implementing Western Development Strategy* (No.35 (2003) Document) issued by the People's Government of Qinghai and the *Preferential Policies for Investment in Xining Economic & Technological Development Zone* regulated in No.34 Document issued by the People's Government of Qinghai in 2001. | | | |
| **Project Implementation Unit** | | **Legal Representative** | | |
| **Address** | | **Ownership** | | |
| **Enterprise Description** | | | | |
| **Contact Approaches** | **Contact Unit** | Economic Development Bureau under the Administrative Commission of Ganhe Industrial Park | **Contact Person** | Quan An |
| | **Address & Post code** | 811600 | **Telephone** | +86 971 2291331 |
| | **E-mail** | Anw731@163.com | **Fax** | + 86 971 2291666 |

## 5. Project of 50,000 t/y Glass Fiber Drawing

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to construct the production line of glass fiber drawing with the annual production of 50,000 tons, which will cover an occupancy area of 600 *mu*. | | | | |
| **Total Project Investment (RMB 100 million)** | 6 | **Foreign Investment Needed (RMB 100 million)** | 6 | **Cooperation Form** | Exclusive ownership or cooperation |
| **Economic Benefit** | Upon putting into production, the project can achieve annual sales income of RMB 800 million *yuan*. | | | | |
| **Usage of Products** | The products are the main raw materials of the impellers of wind-driven generator. | | | | |
| **Market Prospect** | The glass fiber is a new kind of inorganic non-metallic material with the features of high temperature resistance, high strength, good electrical insulation, which has been growing fast for decades. It plays an indispensible role in the national economy as it is widely used in high-tech fields, such as energy and power, transportation, petroleum chemical industry, electronics, metallurgy, construction industry, agriculture, aeronautics and astronautics, environmental protection and defense industry, etc.<br>The glass fiber is also the main base material of CCL industry, used for producing high-quality e-class glass fiber cloth and glass fiber felt. The two glass fiber textile products are of the highest technology content used in printed circuit board processing. Alkali free rovings and alkali free glass fiber felt are the base materials for new alloy materials that enjoy a broad application perspective. | | | | |
| **Project Constriction Conditions** | Xita Expressway and Xijiu Highway traverse through the park, and the ring road entrance of Xinzhuang Expressway is in the entrance of the park, forming a complete road network. The infrastructure is complete here with sufficient water supply, drainage, power supply, natural gas supply, communication CATV and broadband. One 330-kv Transformer Substation and two 110-kv Transformer Substations can fully meet the demand of production and living requirements of investors. The park has great investment value and potentials since it is the deep-processing industry base of featured resources on Qinghai-Tibet Plateau. | | | | |
| **Project Process** | The Project Feasibility Report has been completed. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | No.26 Chuangye Road, Xining, Qinghai, P. R. China | | **Legal Representative** | Huang Guojun | |
| **Contact Unit** | Economic Development Bureau of Nanchuan Industry Park of Xining, Qinghai | | **Contact Person** | Cao Chengxiao | |
| **Telephone** | +86 971 6513901 | | **Postcode** | 810001 | |
| **E-mail** | | | **Fax** | +86 971 6513901 | |

# VIII. Bio-Pharmacy

## 1. Project of Annual Production of 200 tons of Allicin

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | Allicin is extracted from the bulbs of garlic, which belongs to alliaceae with its scientific name being Fat acid diallylthio Asia and it is a kind of organic sulphur compound. The project aims at using the garlic from Haidong Farming Area as a raw material to build the project of annual production of 200 tons of allicin with its total investment of RMB 48 million yuan and among it RMB 38 million yuan will be allotted as the fixed investment. In addition, the overall floorage of the project would cover an area of 4,206 $m^2$ and the total planned equipment to be purchased would come up to 86 sets (pieces). | | | | |
| **Total Project Investment (RMB 10 thousand)** | 4800 | **Foreign Investment Needed (RMB 100 thousand)** | 3000 | **Cooperation Form** | Joint venture, cooperation |
| **Economic Benefit** | There will be annual sales revenue of RMB 90 million *yuan* and total annual profit of RMB 14 million *yuan* and tax of RMB 3.2 million yuan after the project becomes fully operational. The rate of return on investment is 33%. The payback period is 3 years, the annual profit rate is 36% and tax rate of 38% after tax. | | | | |
| **Usage of Products** | Allicin has antibacterial and bactericidal functions. It can promote growth, improve performance, and increase the quality of livestock and aquatic products. It can be added in feed of any age group of domestic animals, birds, freshwater and seawater fish, shrimps, crabs and turtles and other special animal species. It can be also used in food and pharmaceutical industry, healing stomach cancer, enteritis, diarrhea and loss of appetite, etc. | | | | |
| **Market Prospect** | The Chinese market of allicin has developed from scratch, small to big, fast expansion of volume to evident upgrading of structure, has formed a diversified and multi–level consumption market with Chinese characteristics. The scale of allicin market is many times even tens of times larger than that at the initial stage of reform. Its achievement in development is remarkable. With the exploration of allicin products in 2010, it has been widely used in industries as pharmacy and food, besides feed additives. It has a great market potential. | | | | |
| **Project Construction Conditions** | Being the largest garlic planting area in Qinghai province, Haidong Region produces 50,000 tons of garlic annually. It fully meets the project production requirements. Traffic there is convenient. The project will be established in Pharmaceutical Company of Qinghai Lake. Convenient traffic, complete water, electricity and communication facilities are available for the project. | | | | |
| **Preliminary Project Conditions** | *The Feasibility Report* has been prepared. | | | | |
| **Enterprise Description** | Being built in 1987, Pharmaceutical Company of Qinghai Lake has passed GMP Certification. It is a leading agro-livestock enterprise of Hainan Tibetan Autonomous Prefecture. It was named high–tech industry. At present, three production lines with annual output of 200 tons of chemical ephedrine, 300 tons of ephedra extract powder, 300 tons of Tibetan medicine extract have been established. The registered capital is RMB 15.98 million yuan. It covers an area of 43,558 ㎡, and 5,200 ㎡ of building area. The total assets are RMB 68 million yuan. There are 96 staff members working with the company, 36 of them are college or university graduates and among them are 31 professional and technical personnel. | | | | |
| **Enterprise Add.** | Qiabuqia Town, Gonghe County, Hainan Tibetan Autonomous Prefecture | | **Legal Representative** | Luo Juncai | |
| **Contact Unit** | Economic Cooperation Office of Hainan Tibetan Autonomous Prefecture Government | | **Contact Person** | Wu Yongfei | |
| **Telephone** | +86 974 8523575/ 8516988 | | **Post Code** | 813000 | |
| **E-mail** | hnzsj6988@163.com | | **Fax** | +86 974 8521648 | |

## 2. Project of Annual Production of 1,000 kg of Nano-velvet Antler

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The project relies on the advantage of velvet antler resources in Qinghai Province to extract active Ingredient (steroids, phospholipids and various trace elements) in a large scale from velvet adopting high–tech nano–technology. The nano–velvet particles produced can be directly absorbed by intestinal mucosa, increasing the absorption rate of human body to Chinese velvet. RMB 48 million yuan needs to be invested in this project. The building area is 2,368 ㎡ and 58 sets of equipment needs to be purchased to produce annual 1,000 kg of nano–velvet antler. | | | | |
| **Total Project Investment (RMB 10 thousand)** | 4800 | **Foreign Investment Needed (RMB 10 thousand)** | 3500 | **Cooperation Form** | Joint venture, cooperation |
| **Economic Benefit** | After the project is competed, there will be annual sales revenue of RMB 80 million *yuan* and annual profit of RMB 16 million *yuan* and tax of RMB 3.2 million yuan. The rate of return on investment is 33%. The payback period is 5 years, and the annual profit rate is 25% and tax rate is 40% after tax. | | | | |
| **Usage of Products** | The velvet produced through high–tech methods has the effect of replenishing qi and blood, warming and impotence, strengthening sinews and bones, solid with just collapse, brain nerves, enhancing human immunity, slowing aging process. It promotes cardiovascular and myocardial function to recover, to make up strength, to rule consumption and fill fine blood. It recovers and promotes strength and sexual function. Modern biological science and technology proves that velvet contains such amino acid substances as hormones and insulin–like growth factor, etc. Using advanced nano–velvet health products has following functions, including increasing the vigor of human cells, rejuvenation, promoting fat metabolism, strengthening immune system, improving and recovering memory, enhancing sexual function of both men and women. | | | | |
| **Market Prospect** | As traditional precious Chinese medicine, velvet is listed as an excellent tonic from ancient time. At present, domestic need of velvet raw materials ranges from 25 to 30 tons. Especially after the entry of China into WTO, sales channels have been broadened and consumer group increased. Large amounts of velvet is exported to Japan, South Korea, East Asian countries and other countries. The market sales volume of velvet and price climb all the way up. This project researches and develops velvet products with nano–technology, increasing added value of the products, meets the need of market to the diversification of the production. Sales volume and price will continue to increase. | | | | |
| **Project Construction Conditions** | Velvet is one of the traditional commodities in Qinghai that has been exported, and it is one of the eight Qinghai–Tibet Plateau treasures. There are mainly two kinds：velvet of red deer with blood and velvet of blood red deer. Qinghai velvet is collected from young antlers of red deer, white–lipped deer and sika deer stag when they are not densely villous ossification. They live on mountains and hills where the altitude is 3,000 m above sea level on Qinghai–Tibet Plateau. There is a large–scale artificial breeding in Hualong, Dulan, Gonghe and other counties of Qinghai supplying raw materials to produce nano–velvet. The project will be established in Pharmaceutical Company of Qinghai Lake. Convenient traffic, complete water, electricity and communication facilities are available for the project. | | | | |
| **Preliminary Project Conditions** | The feasibility report and technical development and research have been accomplished. | | | | |
| **Enterprise Description** | Being built in 1987, Pharmaceutical Company of Qinghai Lake has passed GMP Certification. It is a leading agro-livestock husbandry enterprise of Hainan Tibetan Autonomous Prefecture. It was named as high–tech industry. Three production lines with annual output of 200 tons of chemical ephedrine, 300 tons of ephedra extract powder, 300 tons of Tibetan medicine extract have been established. The registered capital is RMB 15.98 million yuan. It covers an area of 43,558 $m^2$, and 5,200$m^2$ of building area. The total assets are RMB 68 million yuan. There are 96 staff members working with the company and 36 of them are college or university graduates and 31 of them work as professional and technical personnel. | | | | |
| **Enterprise Add.** | Qiabuqia Town, Gonghe County, Hainan Tibetan Autonomous Prefecture | | **Legal Representative** | Luo Juncai | |
| **Contact Unit** | Economic Cooperation Office of Hainan Tibetan Autonomous Prefecture | | **Contact Person** | Wu Yongfei | |
| **Telephone** | +86 974 8523575/ 8516988 | | **Post Code** | 813000 | |
| **E-mail** | hnzsj6988@163.com | | **Fax** | +86 974 8521648 | |

## 3. Project of Qinghai Plateau Veterinary Pharmaceutical Industrial Park

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | It is planned to establish a project of Qinghai Plateau Veterinary Pharmaceutical Industrial Park through relying on the veterinary medicine R&D and production technology of the park and utilization of favorable regional resources to be mainly engaged in grassland pests and insects control and production of veterinary pharmaceutical products, and the park covers an area of 300 mu. | | | | |
| **Total Project Investment (RMB 10 thousand)** | 50000 | **Foreign Investment Needed (RMB 100 million)** | | **Cooperation Form** | Joint venture, cooperation |
| **Economic Benefit Analysis** | There will be an annual increased sales income of RMB 1 billion *yuan* and total annual profit of RMB 300 million *yuan* before tax. | | | | |
| **Usage of Products** | Pharmaceutical use | | | | |
| **Project Construction Conditions** | It is planned to establish the project in the Bio-technical Industrial Park of Xining Economic & Technological Development Zone. The park was established with the approval of People's Government of Qinghai in April 2002. It is located in the north of Xining with an area of 4.03 $km^2$, and with Beichuan River in its east, Daqiu Mountain in the west. Its average altitude is 2,275 m above sea level. It is 6 km away from the downtown of Xining, 4 km from Northern Railway Station of Xining, and 20 km from Xining Airport. Xining-Zhangye Highway (No.227 State Highway) and Haihu Highway run through the park's east and west sides. The traffic is convenient. Adequately Relying on unique plant resources on Qinghai–Tibet Plateau, the park attracts investors at home and abroad with complete infrastructural facilities and preferential policies. It mainly develops biological technology, Chinese & Tibetan medicine, and plateau green food processing industry and high–tech projects. With the integration of government guidance, market mechanism and production and research, enterprise as the main players, institutional and technological innovation as the motion, we've brought concentrated and demonstrative force into play with the aim of making the park become a green industrial park with the integrated research, development and production. | | | | |
| **Preliminary Project Conditions** | Mature production enterprises and technology are available in the park. Qinghai Plateau Veterinary Pharmaceutical Park can be established through relying on its existing enterprises and technologies. | | | | |
| **Preferential Policies of Project** | Preferential policies are executed according to *Measurements on Grand Western Development Strategy in Qinghai Province* (No.35 (2003) Document) issued by the People's Government of Qinghai and Preferential *Policies on Investment Promotion in Xining National Economic & Technological Development Zone* (No.34 (2001) Document) issued by the People's Government of Qinghai. | | | | |
| **Implementation Unit** | | | **Legal Representative** | | |
| **Contact Address** | | | **Ownership** | | |
| **Enterprise Description** | | | | | |
| **Contact** | **Contact Unit** | Economic and Development Bureau of Management Committee of Bio-tech Industrial Park, Xining National Economic & Technological Development Zone | **Contact Person** | Xin Yuping | |
| | **Postcode** | 810003 | **Telephone** | +86 971 5319375 | |
| | **E-mail** | jfj5319375jfj@163.com | **Fax** | +86 971 5319375 | |

# IX. Tourism

## 1. Project of Tourism Product Development for Self-driving Tourism in Qinghai

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The proposed project is to build self-driving demonstration camp, motel chain, rebuild comprehensive service zone for self-driving, build a self-driving auto rental service system, develop "one for all" product for self-driving tourism and GPS navigation service and make self-driving tourism auto advertisement package, etc. | | | | |
| **Total Project Investment (RMB 100 million)** | 7 | **Investment Needed (RMB 100 million)** | | **Cooperation Form** | Joint venture or joint venture |
| **Economic Benefit** | The annual income is estimated to be RMB 70 million yuan with annual profit of RMB 40 million yuan and 10-year investment recovering period. | | | | |
| **Usage of Product** | Tourism product development | | | | |
| **Market Perspective** | The unique natural environment in Qinghai would make a prosperous market perspective for the self-driving tourism. | | | | |
| **Construction Conditions of Project** | *Planning on Self-driving Tourism Product Development in Qinghai Province*, the first of its kind in China, was prepared in 2007, in which the blueprint for self-driving tourism development in Qinghai has come into being. It indicates that self-driving tourism has become a keynote in the tourism development in Qinghai and sets up a strategic goal of making Qinghai a top-ranking international self-driving tourism destination by 2020. | | | | |
| **Preliminary Project Conditions** | *Planning on Self-driving Tourism Product Development in Qinghai Province*, the first of its kind in China, has been completed. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Qinghai Tourism Bureau | | **Contact Person** | Liu Jingtao | |
| **Tel** | +86 971 6157013 | | **Postcode** | 810000 | |
| **E-mail** | | | **Fax** | | |

## 2. Construction Project of Liuwan Tourism Scenic Spot in Ledu County

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The major project construction includes the following: 1.the construction of the Liuwan tourism service center, 2. the restoration of Liuwan Cemetery and construction of its exhibition halls, 3. construction of squares, parking plots, 4.life experience zone of Liuwan primitive society, painted pottery making zone, 5. folk cultural villages, 6. ecological agro-sightseeing park, etc. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.5 | **Investment Needed (RMB 100 million)** | 1.0 | **Cooperation Form** | Exclusive ownership, joint venture, or cooperation |
| **Economic Benefit** | Upon being completed, the project can achieve annual income of RMB 30 million yuan with total pre-tax profit of RMB 15 million yuan and payback period of investment being 11years. | | | | |
| **Usage of Product** | The project is involved in overall development of tourism scenic spot. | | | | |
| **Market Prospect** | The scenic spot is ranked as AAA scenic spot of our country and will have a prosperous market. | | | | |
| **Construction Conditions of Project** | The transport is convenient and the infrastructure such as water, electricity, communications, etc. is complete. | | | | |
| **Preliminary Project Conditions** | The Construction Planning of the project has been completed. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Tourism Bureau of Ledu County, Qinghai | | **Contact Person** | Yuan Shi’an | |
| **Telephone** | +86 972 8626724 | | **Postcode** | 810700 | |
| **E-mail** | | | **Fax** | +86 972 8626724 | |

# X. Infrastructure

## 1. Project of Archaized Street of Ming and Qing Dynasties in Xining

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The planned project covers an area of about 9,000 $m^2$, and it is located in Guanmenjie Street. It will feature the archaized buildings of Ming and Qing Dynasties and will become another beautiful ethnic tourism scene in Central District of Xining. It will take Shanxi-Shaanxi Guild Hall as its center to link Guanmen Street, Wenhua Street, etc. | | | | |
| **Total Project Investment (RMB 100 million)** | 1.5 | **Investment Needed (RMB 100 million)** | 1.5 | **Cooperation Form** | Exclusive ownership or cooperation |
| **Economic Benefit** | The economic benefit will be considerable after the construction of the project with annual sales income of RMB 15 million yuan. The payback period is short and the return rate on investment is high. | | | | |
| **Market Prospect** | The project will have the great market potentials since it relies on the rich tourism resources and large tourist flow of Xining, the ancient city on the Qinghai-Tibet Plateau. | | | | |
| **Construction Conditions of Project** | All of the infrastructure and facilities needed for the project, such as water supply, drainage, power supply, communications, Internet, etc., are quite complete and the transport is convenient here. Conditions are favorable for development and construction of the project. | | | | |
| **Preliminary Project Conditions** | The preliminary basic survey of the project has been accomplished. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |

## 2. Reconstruction Project of Xining Railway Station and Its Surrounding Areas

| | | | | | |
|---|---|---|---|---|---|
| **Project Description** | The Comprehensive Reconstruction Project of Xining Railway Station includes the reconstruction of municipal road system, squares, landscape of Huangshui River, underground rail traffic, etc. around the area in the range of 1.2 $km^2$. | | | | |
| **Total Project Investment (RMB 100 million)** | 139 | **Investment Needed (RMB 100 million)** | 139 | **Cooperation Form** | Exclusive ownership, joint venture , cooperation, etc. |
| **Estimated Economic Benefit** | Estimated according to the indicators of national economy, the project has a great net contribution to the society and its various economic indexes are obviously higher than the standard ones. So both the economic and social benefits are considerable. | | | | |
| **Usage of Product** | Urban infrastructure | | | | |
| **Market Prospect** | The project is constructed jointly by the People's Government of Qinghai and Xining Municipal Government, listed as the No.1 key project of Xining City. So far, the regulatory planning of 5.5 $km^2$ of Xining Railway Station, the detailed construction planning of the 1.2 $km^2$ core area and the comprehensive traffic planning have been approved. | | | | |
| **Construction Conditions of Project** | Former railway station was featured with its advantageous zone bit. Requirements of project construction will be definitely met. | | | | |
| **Project Process** | So far the feasibility report of the project has been approved and the initial design of sub-projects has been completed. Meanwhile, the improvement project of the waterway of the Huangshui River has been started and the transitional supporting project in Xining Western Railway Station has been completed. | | | | |
| **Enterprise Description** | | | | | |
| **Enterprise Address** | | | **Legal Representative** | | |
| **Contact Unit** | Xining Economic Cooperation Office | | **Contact Person** | Li Li | |
| **Telephone** | +86 971 8237743 | | **Postcode** | 810000 | |
| **E-mail** | Qh2008li@163.com | | **Fax** | +86 971 8237743 | |