

**TIANJIN LIAOYUAN IRON  
WIRE STRANDS FACTORY**

**CHINA**



## **CONTENTS:**

|                                   |           |
|-----------------------------------|-----------|
| <b>Introduction.....</b>          | <b>3</b>  |
| <b>Certificate.....</b>           | <b>6</b>  |
| <b>Product List.....</b>          | <b>9</b>  |
| <b>Supply List.....</b>           | <b>13</b> |
| <b>The Product Equipment.....</b> | <b>16</b> |
| <b>The Testing Equipment.....</b> | <b>17</b> |

# TIANJIN LIAOYUAN IRON WIRE STRANDS FACTORY

LiZui of BeiChen District TianJin China

TEL: +86-22-86861008 FAX: +86-22-86861818

Website: [www.xycb.com](http://www.xycb.com) E-mail: [liaoyuan@xycb.com](mailto:liaoyuan@xycb.com)

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## ● INTRODUCTION



TIANJIN LIAOYUAN IRON WIRE STRANDS FACTORY, as one of leading companies in producing and exporting all kinds of steel wire and



steel strands, have a metal business background of some 10 years and enjoy a good reputation through out the world.

With strict quality-certificated system, our factory has been authorized GB/T19001-2000 — ISO9001: 2000 quality system certificate. Our quality inspection

institution is awarded the title of “Certificate of Compliance” by China Quality Inspection Association. The main products include galvanized iron wire strand, galvanized steel core wire for aluminum cable steel reinforced, zinc-5%aluminum-mischmetal alloy-coated steel core wire and steel wire strand and galvanized low carbon steel wire for armoring cables, and the output is

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14,000 tons, sale 78.4 million yuan in 2005. Our factory exports 2900 tons last year. Our products quality accords with national standard and relative international standard after tested by authority quality testing department such as quality testing center for electric engineering material element of electric industrial department, Shanghai Electric Cable Research Institute and Tianjin Technology Supervision Bureau No. 15station.

Our factory invests large quantity capital to design and construct the new type manufacture line that can produce zinc-5%aluminum-mioschmetal alloy-coated steel core wire and steel wire strand with high quality. This manufacture line abandons the traditional technology, and adopts the advanced one. The production produced by this new line confirms to ASTM A 925-98、 ASTM A 855/ A 855M-98、 ASTM B 802/ B 802M-98 after tested by Shanghai Electric Cable Research Institute etc.

Our galvanized iron wire strand has number of long-term clients, such as Shangdong Posts and Telecommunications Apparatus Company, Fujian Posts and Telecommunications Apparatus



a

Company and Zhejiang Radio and Television Equipment Company, which are our factory in Shandong, Fujian, Guangdong and Zhejiang.

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Galvanized steel core wire and wire strand for aluminum cable steel reinforced produced by our factory have been used in many state key transmission line and substation projects such as 500KV Houshi-Xiamen Power Transmission Line, 500KV power transmission line in Guangdong and Southeast area, Export to Cuba 500KV Power Transmission Line, “Transmit Power from Yunnan to Guangdong” 500KV Power Transmission. Those cooperative companies include Kunming Cable Co., Ltd, Teibian Electric Shandong Luneng Taishan Cable Co., Ltd, Fuzhou Dayton Machinery & Electric Co., Ltd and Teibian Electric Xinjing Cable Factory etc.

Our sales network has covered the whole country and our long-term clients distribute in systems of power, cable, telecommunication, broadcast and television in Beijing, Shanghai, Guangdong, Shanxi, Shanxi, Gansu, Hunan, Northeastern Three Provinces and Zhejiang. According to foreign client's requirement, we can manufacture galvanized iron wire strand according to America Standard ASTM A 475, ASTM B 498, British Standard BS183 to export to America, German, Spain, Korea, Japan, Cuba, Oman, Chile, Vietnam and many other countries and regions in Southeast Asia, which have been received recognition of Chinese and foreign customers and engineering technical personnel.

Our factory can provide galvanized steel core wire of super high strength, thick galvanized coatings and high anti-corrosion according to clients'



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## ● CERTIFICATE

Register No.: 00906Q11285R2S



### CHINA GREAT WALL (TIANJIN) QUALITY ASSURANCE CENTRE CERTIFICATE OF CONFORMITY OF QUALITY MANAGEMENT SYSTEM CERTIFICATION

This is to certify that quality management system  
of **Tianjin Liaoyuan Iron Wire Strands Factory**  
in **Lizui, Beichen District, Tianjin, P. R. China**

Post code: **300400**

Is in conformity with

**GB/T 19001-2000 — ISO 9001:2000 Standard**

This certificate is valid to the following product(s)/service:

**Zinc-coated Steel Wire Strands, Zinc-coated steel wires for stranded  
conductors(Galvanized Steel Core Wire for Aluminum Cable Steel Reinforced),  
Zinc-5%Aluminum-mischmetal Alloy-Coated Steel wire Strands,  
Zinc-5%Aluminum-mischmetal Alloy-Coated Steel Core Wire for  
Aluminum conductors steel reinforced, Galvanized Low Carbon  
Steel Wire for Armouring Cables produce and sale**

Term of validity of this certificate from

**Oct. 26th, 2006 to Oct. 25th, 2009**

Center stamp



general manager

*Ruan Qiang*



Registration No.:CNAB009-Q



Please see about our web: [www.isocgw.net](http://www.isocgw.net) or tel: 022-23541987  
to get the certificate's keeping circumstance of valid condition.



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注册号: 00906Q11285R2S



## 长城（天津）质量保证中心 质量管理体系认证证书

兹证明 天津市燎原钢绞线厂  
位于 天津市北辰区李嘴  
邮编 300400

其质量管理体系符合 GB/T 19001-2000—ISO 9001:2000 标准

该质量管理体系适用于

镀锌钢绞线、架空绞线用镀锌钢线（钢芯铝绞线  
用镀锌钢丝）、锌-5%铝-稀土合金镀层钢绞线、  
钢芯铝绞线用锌-5%铝-稀土合金镀层钢丝、  
铠装电缆用镀锌低碳钢丝的生产和销售。

颁证日期 2006年10月26日 有效期至 2009年10月25日

中心印章



总经理



国家认可注册号: CNAB009-Q



本证书的有效状态保持情况请查询: [www.isocgw.net](http://www.isocgw.net) 电话: 022-23541987

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## 中华人民共和国进出口企业

# 资格证书

### CERTIFICATE OF APPROVAL

FOR ENTERPRISES WITH FOREIGN TRADE RIGHTS  
IN THE PEOPLES REPUBLIC OF CHINA

进出口企业代码 1200700419523

批准文号 [2001]津经贸贸发登字第133号

批准日期

2001

年12月13日

发证日期

2001

年12月13日

自2001年1月1日起  
逾期不作为自动转出口经营



|         |   |  |     |  |
|---------|---|--|-----|--|
| 企业名称    | 中文  | 天津市燎原钢绞线厂                                  |     |  |
|         | 英文  | TIANJIN LIAOYUAN IRON WIRE STRANDS FACTORY |     |  |
| 企业地址    | 天津市北辰区  |  |     |  |
| 企业类型    | 生产企业  | 法定代表人                                      | 巴志强 |  |
| 主管部门    | 天津市北辰区外经贸委  |  |     |  |
| 注册资金    | 人民币伍佰万元   |  |     |  |
| 经营范围    | <p>进出口经营范围：经营本企业自产产品的出口业务和本企业所需的机械设备、零配件、原辅材料的进口业务，但国家限定公司经营或禁止进出口的商品及技术除外。</p> |  |     |  |
| 进出口商品目录 | <p>出口商品：自产金属丝绳及其制品；进口产品：本企业生产所需的原辅材料、仪器仪表、机械设备、零配件及技术。</p>                      |  |     |  |

No 0060394

副本



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## ● PRODUCT LIST

| <b>Product Name</b>  | <b>Standards</b>   | <b>Constructions and dia</b> |
|--|--|------------------------------|
| <br><a href="#"><u>Galvanized iron (steel) wire strand</u></a>                              | <b>ASTM A 475</b><br>CLASS A, B<br><br><b>BS 183</b><br>ANY TENSILE STRENGTH | 1 × 7; 1 × 19                |
| <br><a href="#"><u>Zinc-5%aluminum-mischmetal alloy-coated steel wire strand</u></a>      | <b>ASTM A 855</b><br>CLASS A, B<br>ANY TENSILE STRENGTH                      | 1 × 7; 1 × 19                |
| <br><a href="#"><u>Galvanized steel core wire for aluminum cable steel reinforced</u></a> | <b>ASTM B 498</b><br>CLASS A, B<br>ANY TENSILE STRENGTH                      | Φ 1.5 ~ 4.8mm                |

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|  |  |                       |
|--|--|-----------------------|
|  <p><u>High strength</u><br/><u>Zinc-5%aluminum-mischmetal</u><br/><u>alloy-coated steel core wire for ACSR</u></p> | <p><b>ASTM A 803</b><br/>CLASS A, B<br/>ANY TENSILE STRENGTH</p> | <p>Φ 1.5 ~ 4.8mm</p>  |
|  <p><u>Zinc-5%aluminum-mischmetal</u><br/><u>alloy-coated steel core wire for ACSR</u></p>                        | <p><b>ASTM A 802</b><br/>CLASS A, B<br/>ANY TENSILE STRENGTH</p> | <p>Φ 1.5 ~ 4.8mm</p>  |
|  <p><u>Galvanized low carbon steel wire</u></p>   | <p><b>ASTM A 641</b><br/>CLASS A, B<br/>ANY TENSILE STRENGTH</p> | <p>Φ 1.50 ~ 4.8mm</p> |

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|  |  |                            |
|--|--|----------------------------|
|  <p><u>Galvanized low carbon steel wire for communication</u></p> | <p><b>ASTM A 111</b><br/>CLASS A, B<br/>ANY TENSILE STRENGTH</p> | <p>Φ 1.5 ~ 4.80mm</p>      |
|  <p><u>Steel wire for enclosure</u></p>                         | <p><b>ISO 7900</b></p>   | <p>Φ 1.5 ~ 4.8mm</p>       |
|  <p><u>P.C. Strand</u></p>                                      | <p><b>ASTM A 416</b><br/>Normal or Low relaxation</p>            | <p>1*2<br/>1*3<br/>1*7</p> |

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|   |                             |                             |
|---|-----------------------------|-----------------------------|
|  <p><u>Straightene-tempered p.c. wire cold drawn p.c. wire</u></p> | <p><b>GB/T5223-2002</b></p> | <p><b>Φ 3.0 ~ 7.0mm</b></p> |
|  <p><u>Unbonded P.C. steel strand</u></p>                        | <p><b>JG3006-93</b></p>     | <p><b>1*7</b></p>           |

★REMARK: WE CAN PRODUCE ACCORDING TO THE CLIENTS' NEED!!!

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## ● Supply List in 2006

| NO | SOME CUSTOMER'S NAME (PROJECT NAME)                           | COUNTRY  |
|----|---|----------|
| 1  | 500KV Houshi-Xiamen Power Transmission Line                   | CHINA    |
| 2  | 500KV power transmission line in Guangdong and Southeast area | CHINA    |
| 3  | Export to Cuba 500KV Power Transmission Line                  | CHINA    |
| 4  | Kunming Cable Co., Ltd  | CHINA    |
| 5  | Teibian Electric Shandong Luneng Taishan Cable Co. Ltd        | CHINA    |
| 6  | Fuzhou Dayton Machinery & Electric Co.Ltd                     | CHINA    |
| 7  | Teibian Electric Xinjiang Cable Factory etc                   | CHINA    |
| 8  | HAN SHIN STEEL WIRE Co.                                       | KOREA    |
| 9  | NAM TIEN IMPORT EXPORT JOINT STOCK COMPANY                    | VIETNAM  |
| 10 | SEDO CAMPING CO., LTD   | KOREA    |
| 11 | COMERCIAL ARAGON LIMITADA                                     | CHILE    |
| 12 | THAI WIRING SYSTEM CO., LTD                                   | THAILAND |
| 13 | IBCC INDUSTRIES.INC   | USA      |
| 14 | REGENCY WIRE,INC.   | USA      |
| 15 | HPE JPPC/MEROWE DAM C4 SUDAN                                  | SUDAN    |
| 16 | Andaluza de Trefileria Y Galvanizados S.L.                    | SPAIN    |



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## ● Supply List in 2005

| NO | CUSTOMER  | DATE       | QUANTITY | INVOICE NO.  |
|----|---|------------|----------|--------------|
| 1  | Shandong Yanggu Wire & Cable Group                        | 2005-06-16 | 338 MT   | LY200501P001 |
| 2  | Tebian Electrical Shandong Nuneng Taishan Cable Co., Ltd. | 2005-07-11 | 300 MT   | LY200502P005 |
| 3  | Shandong Yanggu Wire & Cable Group                        | 2005-08-15 | 524 MT   | LY200503P008 |
| 4  | Datong Telecom Industrial Co.                             | 2005-10-15 | 362 MT   | LY200504P005 |
| 5  | Han shin Steel wire                                       | 2005-12-08 | 514MT    | LY200505P002 |
| 6  | Regency wire co.  | 2005-12-08 | 620 MT   | LY200506P027 |
| 7  | Hebei Xinhua Cable Co., Ltd.                              | 2005-06-16 | 440 MT   | LY200506P121 |
| 8  | Regency wire co.  | 2005-07-11 | 120 MT   | LY200507P003 |
| 9  | Fujian Xinchun Trade Co., Ltd.                            | 2005-08-15 | 254 MT   | LY200508P014 |
| 10 | Dandong Electricity Bureau Power Equipment Factory        | 2005-10-15 | 212MT    | LY200510P010 |
| 11 | Datong Telecom Industrial Co.                             | 2005-12-08 | 668 MT   | LY200512P011 |
| 12 | Regency wire co.  | 2005-12-08 | 338 MT   | LY200512P134 |
| 13 | Shandong Yanggu Wire & Cable Group                        | 2005-06-16 | 260 MT   | LY200501P001 |
| 14 | Han shin Steel wire                                       | 2005-07-11 | 186 MT   | LY200502P005 |
| 15 | Dandong Electricity Bureau Power Equipment Factory        | 2005-08-15 | 1026 MT  | LY200503P008 |

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## ● Supply List in 2004

| NO | CUSTOMER  | DATE       | QUANTITY | INVOICE NO.  |
|----|---|------------|----------|--------------|
| 1  | Fujian Xinchun Trade Co., Ltd.                            | 2004-01-08 | 608 MT   | LY200401P038 |
| 2  | Dandong Electricity Bureau Power Equipment Factory        | 2004-02-24 | 320 MT   | LY200402P101 |
| 3  | Shandong Yanggu Wire & Cable Group                        | 2004-03-15 | 782 MT   | LY200403P010 |
| 4  | Datong Telecom Industrial Co.                             | 2004-04-11 | 361 MT   | LY200404P011 |
| 5  | Tebian Electrical Shandong Nuneng Taishan Cable Co., Ltd. | 2004-05-04 | 53 MT    | LY200405P001 |
| 6  | Hebei Xinhua Cable Co., Ltd.                              | 2004-05-16 | 124 MT   | LY200405P005 |
| 7  | Regency wire co.  | 2004-06-20 | 400 MT   | LY200406P008 |
| 8  | Datong Telecom Industrial Co.                             | 2004-07-11 | 261 MT   | LY200407P010 |
| 9  | Fujian Xinchun Trade Co., Ltd.                            | 2004-08-08 | 805 MT   | LY200408P018 |
| 10 | Dandong Electricity Bureau Power Equipment Factory        | 2004-08-26 | 338 MT   | LY200408P124 |
| 11 | Han shin Steel wire                                       | 2004-09-10 | 300 MT   | LY200409P017 |
| 12 | Shandong Yanggu Wire & Cable Group                        | 2004-10-15 | 524 MT   | LY200410P010 |
| 13 | Tebian Electrical Shandong Nuneng Taishan Cable Co., Ltd. | 2004-11-04 | 362 MT   | LY200411P003 |
| 14 | Shandong Yanggu Wire & Cable Group                        | 2004-12-15 | 514MT    | LY200412P013 |

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## ● The Product Equipment:

|                                       | Equipments                               | Quantity   | Origin             | Character   |
|---------------------------------------|--|------------|--------------------|---|
| <b>The introductions of equipment</b> | Rough Wire-drawing machine               | Eight suit | Hebi               | Producing High strength rough steel wire  |
|                                       | Accumulate Wire-drawing machine          | Four suit  | Nanhan             | Count and gauge accord with photo electricity   |
|                                       | Wire-drawing machine with the water tank | Six suit   | Wuxi               | Counting and gauge accord with photo electricity  |
|                                       | Alloy-coated Production line             | One suit   | Oneself constructs | Frequency conversion and automatic, large coil, headstand coil out                        |
|                                       | Zinc-coated Production line              | Two suit   | Oneself constructs | Frequency conversion PID automatic  |
|                                       | Wring line machine                       | One set    | Baotou             | Construction: 1*7, frequency conversion and Count and gauge accord with photo electricity |
|                                       | Wring line machine                       | One set    | Deyang             | Construction: 1*7, frequency conversion and Count and gauge accord with photo electricity |
|                                       | Wring line machine                       | One set    | Harbin             | Construction: 1*7, frequency conversion and Count and gauge accord with photo electricity |
|                                       | Wring line machine                       | One set    | Tianjin            | Construction: 1*7, frequency conversion and Count and gauge accord with photo electricity |

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## ● The Testing Equipment

|                                | Equipments                        | Quantity | Origin    | Specifications | Testing item   |
|--------------------------------|-----------------------------------|----------|-----------|----------------|--|
| The introductions of equipment | Universal hydraulic tester        | One set  | Changchun | 5ton           |  |
|                                | Universal hydraulic tester        | One set  | Changchun | 10ton          | Strength, elongation, the stress under tension 1%, and the reduction of area |
|                                | Pulling intensity tester          | One set  | Qingshan  | 1ton           |  |
|                                | Butterfly extensometer            | One set  | Yangzhou  |                |  |
|                                | Torsion analysis                  | Two set  | Qingshan  | GX—3A<br>GX—6  | Twist, torsion   |
|                                | Apparatus for Bending at low-temp | One set  | Qingshan  |                | Bending  |
|                                | Electrical balance                | Two set  | Shanghai  | 1/1000         | Zinc coating weight  |

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## Customer Satisfaction Survey

We would be very grateful if you could spend a few minutes completing our survey so that we can learn from your experiences and to improve our product in the highest standard!!!

Please fill the blank with "✓"

|                     | Excellent | Very good | Good | Fair/ Okay | Poor | Very poor | Your advice or reason |
|---------------------|-----------|-----------|------|------------|------|-----------|-----------------------|
| <b>On Quality</b>   |           |           |      |            |      |           |                       |
| Product Performance |           | ✓         |      |            |      |           |                       |
| Quality of Surface  |           | ✓         |      |            |      |           |                       |
| Packing             |           |           | ✓    |            |      |           |                       |
| Product Quality     |           | ✓         |      |            |      |           |                       |
| Other               |           |           |      |            |      |           |                       |

|                   |   |   |  |  |  |  |  |
|-------------------|---|---|--|--|--|--|--|
| <b>On Sale</b>    |   |   |  |  |  |  |  |
| Effective service | ✓ |   |  |  |  |  |  |
| Timely service    |   | ✓ |  |  |  |  |  |
| Delivery          |   | ✓ |  |  |  |  |  |
| Other             |   |   |  |  |  |  |  |

We welcome you to comment on any aspect of our products:

..... Quality Reliability and Prompt Shipment and hope we can keep a long-term business relationship! .....

Your signature

Company seal:

Date:



2007-04-08  
**DIRECTOR**  
*Nguyen Minh Cung*

Thank you for completing this survey. By listening to our customers we will continually improve our service