



Union Galvanizer Company Profile

Our way of making our products
reach our customer's hands

Introduction

In 1979, a group of engineers and business professionals with exceptional skills came together to establish Union Galvanizer Co., Ltd. in Sam Phran district, Nakhon Pathom province, Thailand.

In 1992, with a firm commitment to providing reliable and quality services, the company expanded its operations by building a second factory in Chachoengsao province, capable of producing up to 2,000 tons per month. The use of advanced hot-dip galvanizing technology allowed Union Galvanizer Co.,Ltd to meet the growing demand for high-quality steel products.

Through continuous development and innovation, Union Galvanizer Co.,Ltd has become a leader in the hot-dip galvanizing industry in Thailand. In 2019, the company further expanded its operations by developing state-of-the-art hot-dip galvanizing technology, capable of producing up to 6,000 tons per month, making it the most advanced galvanizing technology in Thailand.

Today, Union Galvanizer Co., Ltd. continues to provide high-quality hot-dip galvanizing services to its customers, supported by a team of experienced professionals and the latest technology. The company's commitment to quality, reliability, and innovation has made it a trusted partner for many industries, including construction, automotive, and electrical, both in Thailand and internationally.





Factory Information

THE FACTORY AREA COVERS 25,000 SQUARE METERS
PRODUCTION CAPACITY OF **8,000** METRIC TONS PER MONTH.

THE EMPLOYS OVER **400** WORKERS

GALVANIZE KETTLE 1

LENGTH : 7.5 METERS X WIDTH : 1.5 METERS. X DEPTH : 2.5 METERS.

GALVANIZE KETTLE 2

LENGTH : 13.0 METERS. X WIDTH : 1.8 METERS X DEPTH OF 3.3 METERS.

Fully Automatic Galvanizing

Our fully automated galvanizing process ensures consistent and uniform coating application, resulting in superior corrosion resistance and long-lasting durability. With our advanced system, we can efficiently and effectively coat large quantities of products with minimal waste and maximum efficiency, saving you time and money.

But our commitment to quality doesn't stop there. Our skilled technicians and engineers carefully monitor every step of the galvanizing process to ensure that your products meet the highest standards of quality and safety. We take pride in providing excellent customer service and offering competitive pricing to meet your budget and exceed your expectations.

So whether you're in the construction, automotive, or transportation industry, trust our factory to deliver the fully automatic galvanizing services you need to protect your products and enhance your business. Contact us today to learn more about our galvanizing services and how we can help you succeed.





Certificate of Registration

This is to certify that the

QUALITY MANAGEMENT SYSTEM

of

UNION GALVANIZER CO., LTD.

9, 9/7 Moo 1, Suwinthawong Road, Klongudomcholjorn, Muang, Chachoengsao, 24000, THAILAND

for


Provision of hot dipped galvanizing services for steel products in various shapes and sizes.

has been assessed and registered against the provisions of

ISO 9001:2015

International Standard

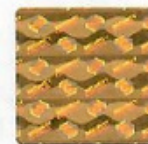
with

Registration Number:	34Q17978	Cycle Start Date:	26 October 2019
Project:	56-17978-2-Q	Approval Date:	9 November 2019
		Issue Date:	8 May 2020
Certification Approved By:		Expiry Date:	26 October 2022
Gary Jones			
Chief Executive Officer			



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GCL INTERNATIONAL LTD
Level 1, Devonshire House, One Mayfair Place, London,
W1J 8AJ, United Kingdom.



S/N : 80015718
PIN : 19805666

ISO 9001:2015

We are committed to providing our customers with the highest quality products and services. That's why we have earned the prestigious ISO 9001:2015 certification, a globally recognized standard for quality management systems.

This certification reflects our dedication to meeting and exceeding customer expectations by continuously improving our processes and ensuring consistent quality in everything we do. Our ISO 9001:2015 certification demonstrates that we have implemented effective quality management systems that are regularly audited and reviewed to ensure compliance with international standards.

By choosing our factory, you can trust that you are working with a company that places quality and customer satisfaction at the forefront of its operations. We strive to provide our customers with the best possible experience, from product design and development to production and delivery.

Our ISO 9001:2015 certification is just one of the many ways we ensure that we meet the highest standards of quality and reliability. It's a testament to our commitment to continuous improvement and our dedication to providing our customers with the best possible products and services.



Zinc Special High Grade

99.995%

We use only the best materials, including Zinc Special high grade, to ensure that your products receive the highest level of protection against corrosion and rust.

Our Zinc Special high grade material is carefully selected for its purity and consistency, and undergoes rigorous quality testing to ensure that it meets our high standards. With our commitment to quality and attention to detail, you can trust that your products will be protected for years to come.



บริษัท ยูนิยามัลทาลิโนเซอร์ จำกัด
UNION GALVANIZER COMPANY LIMITED
HEAD OFFICE: 8 MOO 1 SUBINTAWONG ROAD, KLONG UDOMCHOLAJORN MUANG CHACHONGSAO 24000 TEL: 03848084
SAMPAN PLANT: 1411 MOO 8 PETCHKASEM ROAD, ORTA SAMPAN NAKORNPRATUM 73100 TEL: 03420287-8

Incoming Inspection Report

General Information			
Customer Name / ชื่อลูกค้า	STPA PUBLIC COMPANY LIMITED	Report Number / เลขที่รายงาน	QC-STP21074001
Project / ชื่อโครงการ	GOLDEN PASS LNG EXPORT	Inspection Date / วันที่ตรวจ	10/12/2021
DO Number / เลขที่ใบส่งสินค้า	DR10	Inspector Name / ชื่อผู้ตรวจ	Angkana
Receiving Checklist Number / เลขที่ใบรับสินค้า	STPA/ISSA-2107-0048		

Item / รายการ	Description / รายละเอียด	Quantity / จำนวน
BA019-BE170	W10X33	1

YES = 3 ข้อตามเกณฑ์ที่กำหนด, NO = ไม่ตรงตามข้อกำหนด, N/A = ไม่สามารถประเมินได้ หรือไม่มีข้อมูลที่เกี่ยวข้อง

	YES	NO	N/A	Remark / หมายเหตุ
Appearance General / สภาพผิวทั่วไป				
1 Smooth / ไม่มีรอย	Y	N	N/A	Accept with comment (galvanized steel surface may not smooth)
2 No Burrs / ไม่มีเศษเหล็ก	Y	N	N/A	
3 No Sharp Edges / ไม่มีขอบคม	Y	N	N/A	
4 No Exposed Laminations / ไม่มีการเปิดเผยชั้นผิวเหล็ก (ไม่มี, ไม่มีสีน้ำตาล, ไม่มีสีขาว, ไม่มีรอยแตก)	Y	N	N/A	Note to production remove stain of adhesive tape before.
5 No Deep Rust / ไม่มีสนิม	Y	N	N/A	Accept with comment (galvanized steel surface may not smooth)
6 No Distortion / ไม่มีการบิดเบี้ยว	Y	N	N/A	
Appearance Cores / ภายนอกของรูหรือช่อง				
1 Ground to bright metal. Min 3 mm radius on all edges / ภายนอกของรูหรือช่อง 3 มม ขึ้นไป	Y	N	N/A	
Welds / รอยเชื่อม				
1 Continuous / รอยเชื่อมต่อเนื่อง	Y	N	N/A	
2 Smooth / รอยเชื่อมเรียบ	Y	N	N/A	
3 Overlapping Surface / พื้นผิวที่ซ้อนกัน	Y	N	N/A	
Rough Spots, Sharp Edges and Burrs / รอยขรุขระ, ขูดขีด				
1 Min. 3 mm radius / ภายนอกของรูหรือช่อง 3 มม ขึ้นไป	Y	N	N/A	
Vent Holes / รูระบายอากาศ				
1 Non-visible Oil, Grease or Dust / ไม่พบคราบน้ำมัน, ไม่มีไขมัน หรือสิ่งสกปรก	Y	N	N/A	Beginning time and picking time = High level
Tag / ป้ายระบุข้อมูล				
1 Tag available / มีป้ายระบุ	Y	N	N/A	
2 Matched information / ข้อมูลตรงกัน	Y	N	N/A	

Inspection by / ผู้ตรวจ	Verify by / ตรวจสอบ	Approve by / อนุมัติ
Date: 10/12/2021	Date: 10/12/2021	Date: 10/12/2021

Incoming Inspection

Before any product enters our hot-dip galvanizing process, we conduct thorough inspections to ensure that the steel meets our strict standards for quality and performance. Our experienced technicians carefully examine each piece to identify any defects, surface irregularities, or other issues that could affect the quality of the finished product.



JIGGING AND SURFACE PREPARATION

Jigging is the process of suspending or holding the steel or iron product during the galvanizing process. The proper jigging of products is essential to ensure that the zinc coating is evenly applied to all areas of the product, including corners, edges, and recesses. Poor jigging can lead to areas of the product not being properly coated, which can result in the formation of bare spots and reduced protection against corrosion and rust.

Surface preparation involves cleaning and preparing the metal surface to ensure optimal adhesion of the zinc coating. This is done by removing any rust, oil, or other contaminants that may be present on the surface. Proper surface preparation is essential to ensure that the zinc coating adheres properly to the surface and provides effective corrosion protection. Failure to properly prepare the surface can result in the zinc coating flaking or peeling off, which can compromise the overall protection of the metal.

GALVANIZING AND QUENCHING

Galvanizing: The products are then immersed in a bath of molten zinc. The zinc reacts with the surface of the metal to form a protective layer that bonds to the surface. The temperature of the zinc bath is typically around 450-460°C.

Quenching: The product is then removed from the bath and allowed to cool in air or by immersion in water.





INSPECTION

Visual Inspection: The products are visually inspected for any defects or issues such as bare spots, drips, or other imperfections.

Coating Thickness Measurement: The thickness of the zinc coating is measured at several locations on the product using a magnetic thickness gauge. The minimum coating thickness required varies depending on the application and the standard or specification being followed.

Adhesion Testing: Adhesion tests are performed on the zinc coating to ensure it adheres to the metal surface. This can be done through a variety of methods, including bend tests or knife tests.



GRINDING AND TOUCH-UP

Grinding: During the hot dip galvanizing process, some areas of the metal may experience excess zinc buildup or other imperfections that need to be smoothed out. Grinding is the process of removing any excess zinc or other defects on the surface of the product. This is typically done using power tools such as grinders or sanders.

Touch-up with zinc-rich paint: After the grinding process, any areas of bare metal exposed during grinding can be touched up with zinc-rich paint. Zinc-rich paint contains high levels of zinc, which provides a sacrificial layer of protection against corrosion. This touch-up process helps ensure that the entire surface of the product is adequately protected against corrosion.

Final inspection and transportation

Our experienced team conducts a comprehensive inspection of all of our products to ensure that they meet the required specifications and are free from any defects or imperfections. We use advanced equipment and technology to carry out these inspections, and our team is trained to identify any potential issues that may impact product quality.

Once our final inspection is complete and our products have been approved, we are ready to deliver them to our customers. Our delivery process is designed to be efficient and reliable, with a focus on ensuring that our products are delivered on time and in excellent condition.



CUSTOMER SERVICE

To further ensure customer satisfaction, we offer comprehensive after-sales service, with a team of experts available to address any questions or concerns that may arise. We are committed to providing our customers with the best possible service and products, and we are continuously improving our processes to better meet their needs.

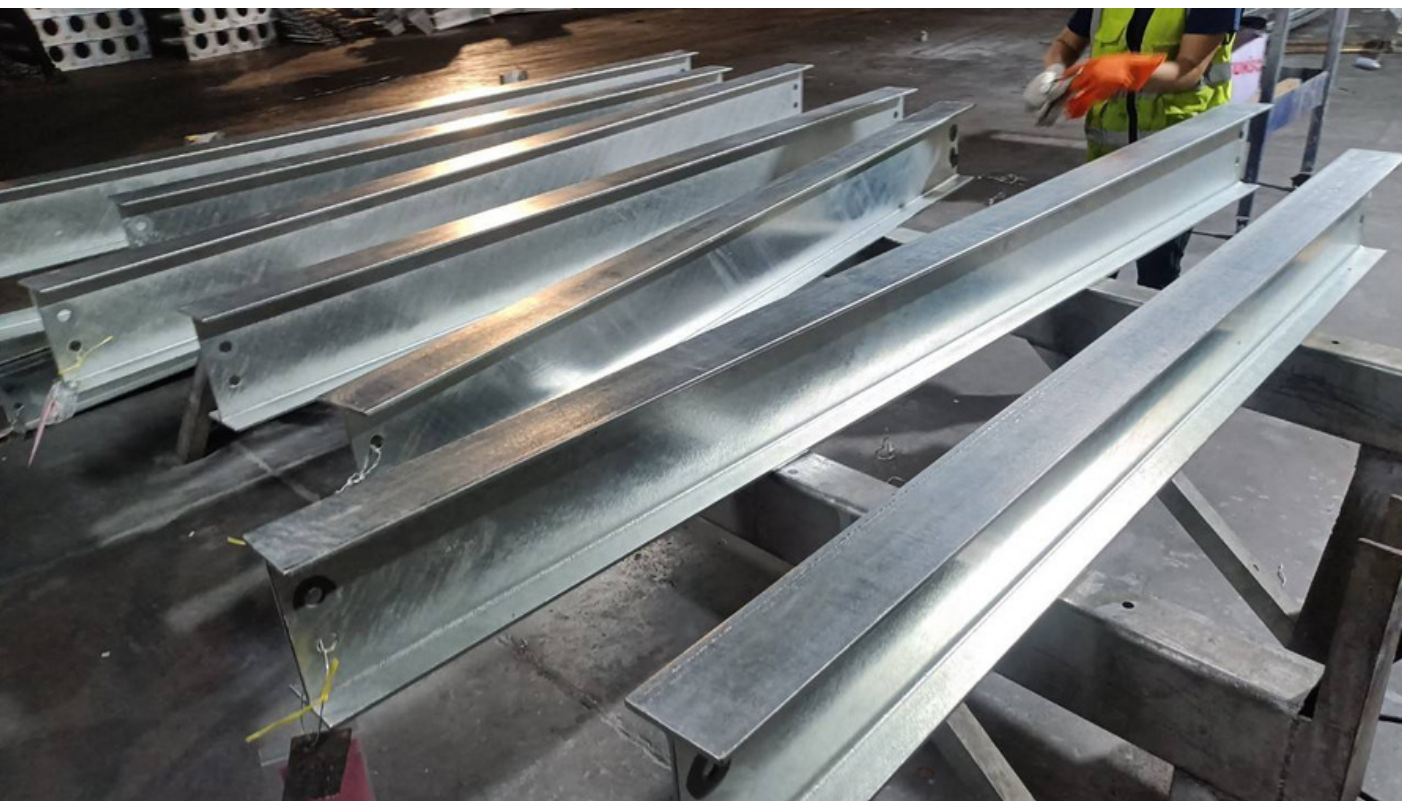


Reference



Reference





STP&I PCL :GPX PROJECT

24,000 MT.

The Golden Pass Liquefied Petroleum Gas (LPG) project is a construction project of an LPG plant located in Texas, United States. The project is a joint venture between Qatar Petroleum, ExxonMobil, and ConocoPhillips, which will produce LPG for export to markets worldwide.

Hot dip galvanizing is used in the Golden Pass LPG project to prevent corrosion of the steel structures in the harsh weather and environmental conditions that can result in a pH value higher than the standard. Applying anti-corrosion coating using hot dip galvanizing is a widely recognized method of preventing corrosion and rust in the manufacturing industry, requiring strength and durability in challenging environments.

The Golden Pass LPG project utilizes hot dip galvanizing services from union galvanizer in corrosion prevention to produce high-quality products and prevent long-term damage to structures.



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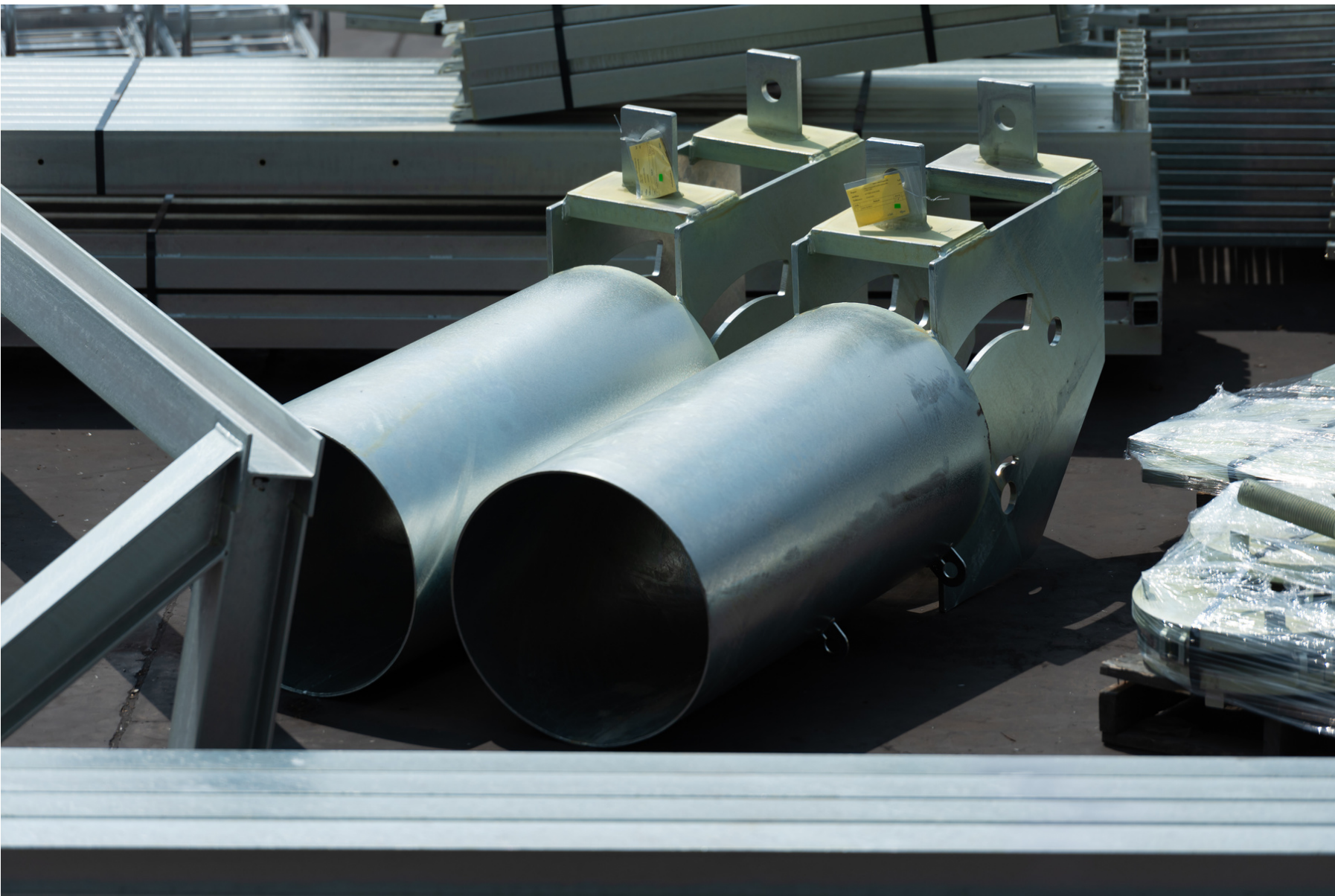


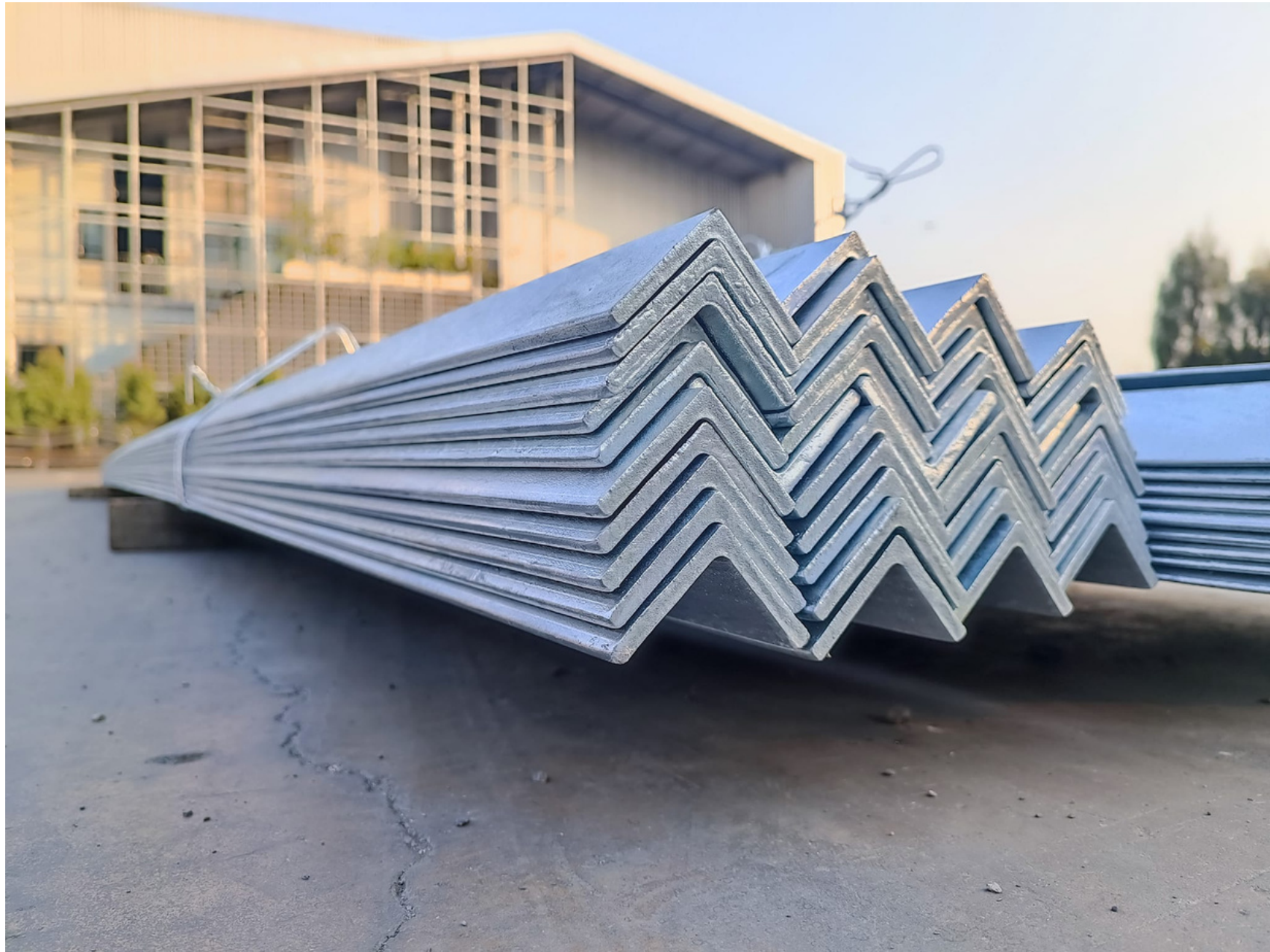
FARM

Hot dip galvanize by union galvanizer company limited



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โรงงานฉะเชิงเทรา



ที่อยู่

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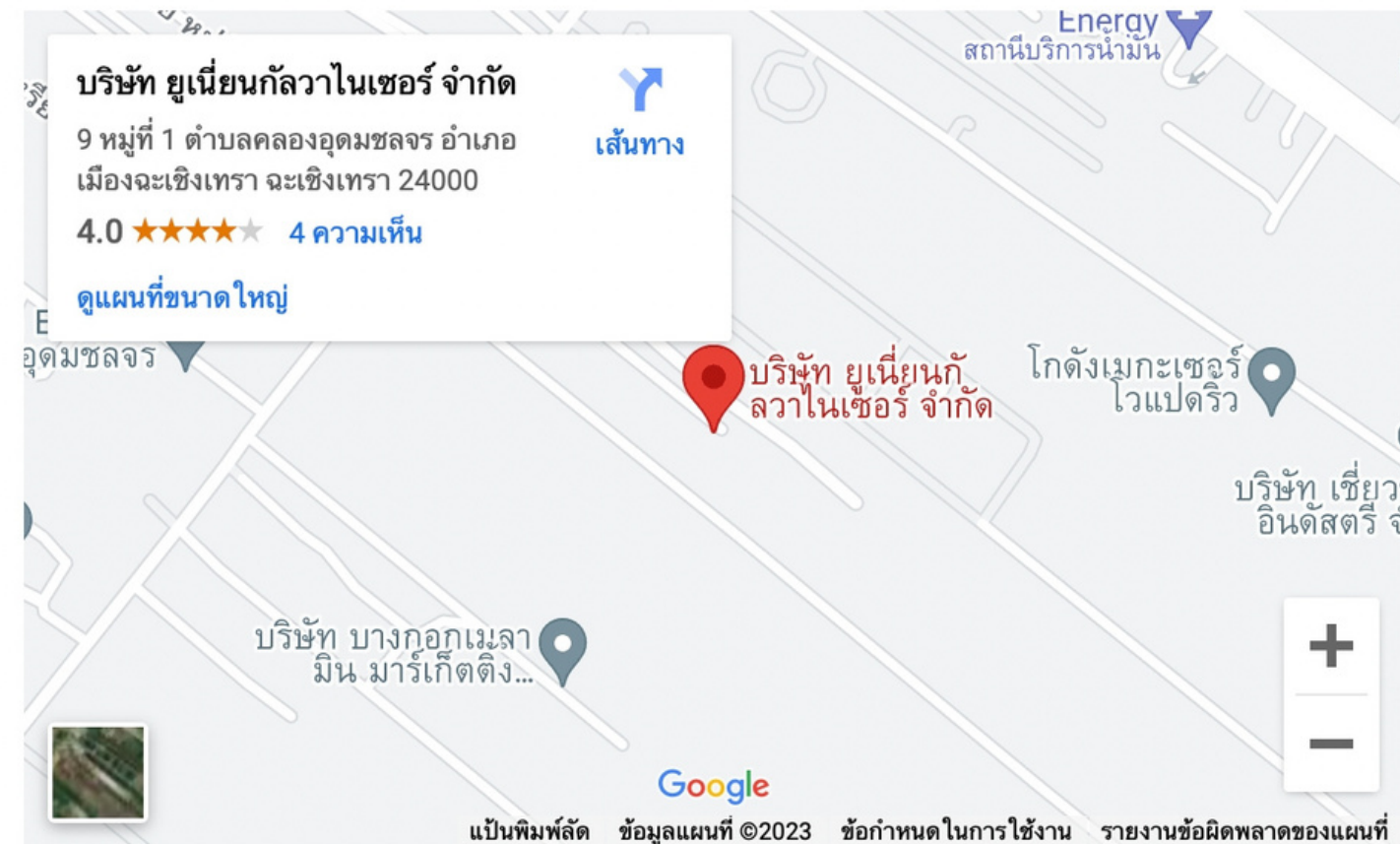
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