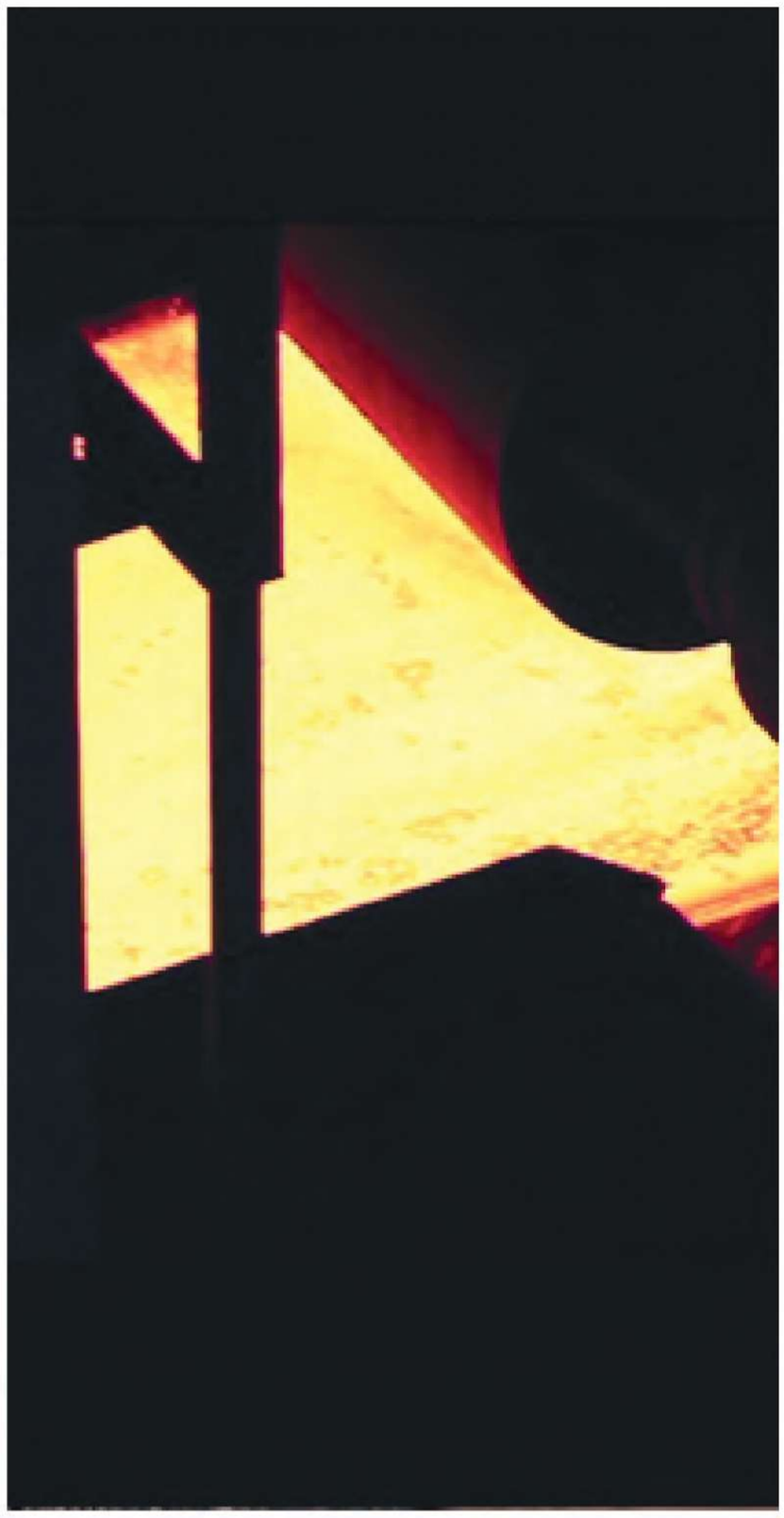
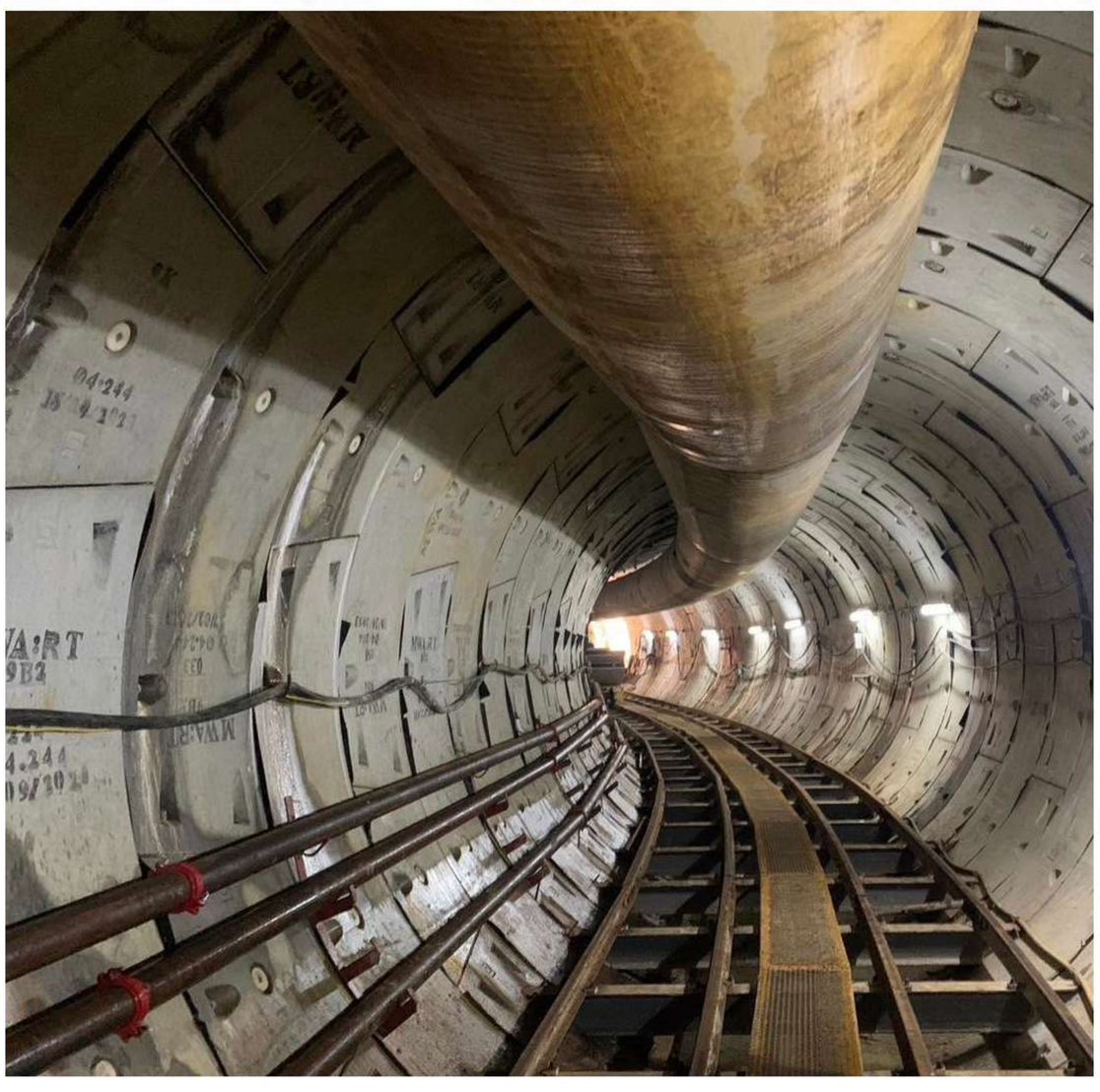












LPN

LPN PLATE MILL

PUBLIC COMPANY LIMITED

Sustainable Steel for a Better Tomorrow

การรับรองเลขที่ : GI(E) 3-438/2567

Green Industry
กระทรวงอุตสาหกรรม

ใบรับรองฉบับนี้ให้ไว้กับ

บริษัท แอล พี เอ็น เพลทมิล จำกัด (มหาชน)

ที่ตั้งสถานประกอบการ : เลขที่ 199/9 หมู่ที่ 4 ถนนสุขสวัสดิ์ ตำบลปากคลองบางปลากด
อำเภอพระสมุทรเจดีย์ จังหวัดสมุทรปราการ 10290

เพื่อรับรองว่าเป็น

อุตสาหกรรมสีเขียวระดับที่ 3

ระบบสีเขียว (Green System)

การบริหารจัดการสิ่งแวดล้อมอย่างเป็นระบบ มีการติดตามประเมินผล
และทบทวนเพื่อการพัฒนาอย่างต่อเนื่อง

ลงชื่อ.....
(นายจุลพงษ์ ทวีศรี)
อธิบดีกรมโรงงานอุตสาหกรรม

ออกให้ ณ วันที่ : 6 กุมภาพันธ์ 2567
มีผลถึง วันที่ : 5 กุมภาพันธ์ 2570
เลขประจำตัวผู้เสียภาษี : 0107539000014
เลขทะเบียนโรงงาน : 91070000125420

Thailand Greenhouse Gas Management Organization (Public Organization)
อบก TGO

Chula Chulalongkorn University

องค์การบริหารจัดการก๊าซเรือนกระจก
(องค์การมหาชน)

ขอมอบประกาศนียบัตรฉบับนี้ให้ไว้เพื่อแสดงว่า

LPN
LPN PLATE MILL

บริษัท แอล พี เอ็น เพลทมิล จำกัด (มหาชน)

ได้รับการคัดเลือกเป็นองค์กรเข้าร่วมโครงการฯ
และคำนวณค่า Embedded Emissions ตามแนวทางของสหภาพยุโรป
ภายใต้โครงการ

"การเตรียมความพร้อมสินค้าส่งออกสหภาพยุโรป
เพื่อรับมือกับมาตรการ CBAM ระยะที่ 3"

รันวาคม 2568 - สิงหาคม 2569

ดำเนินงานโดย
อู่ฬ่าลงกรณ์มหาวิทยาลัย

(นายณกรณ์ ตรรกวิรพัก)
ผู้อำนวยการองค์การบริหารจัดการก๊าซเรือนกระจก

We are predicted to our world class manufacturing facilities to produce highnest quality products with continuous improvement and highly focus on individual customer needs. We delight all our stakeholders, who are involved in the business activity.



LPN PLATE MILL
PUBLIC COMPANY LIMITED

LPN Plate Mill PCL was established in 1990 by Lao Peng Nguan Group, which has more than 30 years of experience and expertise in the steel industry. Their experience has gradually built up a strong foundation and deep understanding of customers' requirements, enabling the Company to establish the Hot Rolled Steckel mill that meets the diversified requirements of both local and overseas customers with a production capacity of 360,000 tons/year.

LPN Plate Mill PCL as a manufacturer of specialty hot rolled plates with the widest plate width in S-E Asia. The company imports high-quality steel slabs from the most reputable steel mills in the world.

LPN Plate Mill PCL has used the state-of-art 4 Hi - Reversing Steckel mill from Tippins Incorporated, USA. In accordance with the company's production policy which not only focuses on making a wide range of products in terms of size and quality, but also incorporated a highly flexible manufacturing systems that enables the company to manufacture and deliver the products as demanded by the customers.









Products

The company produces various grades of Hot Rolled Plate with a maximum width of 3,048 mm, thickness up to 150 mm and length up to 30 meters. Slabs are sourced from world-class mills which attain the highest quality standards in their production process.

The finished products are used in the Energy Industry (like oil & gas pipelines, power plants, etc.), Chemical industry, Construction Industry, Machinery manufacturing industry, and other downstream industries.







- High-strength Low-Alloy Nb-V, specialty steel for structural support that requires high strength such as building and bridge structures
- Shipbuilding
- High grade pressure vessel quality, which sustains moderate and low temperature, sustains intermediate and high temperature services
- Hot rolled steel plate for pipeline application, offshore platform and also used in other Energy Industries

Salient features of the Rolling Mill

ⓐ Walking Beam Reheat Furnace - the capacity is 100 t/hr

ⓑ High-pressure descaler uses 160 bar pressure.

ⓒ 4Hi-Reversing Steckel Mill

- Work roll : Dia. 820 mm with a length of 3,403 mm
- Back up roll : Dia. 1,450 mm with a length of 3,406 mm
- Hydraulic Automatic Gauge Control (HAGC)
- Separating force of 4,000 T
- Two 4,500 HP Motors

ⓓ Hot Dividing Shear

ⓔ Laminar Flow Cooling

ⓕ Hot Leveller

ⓖ Cooling Bed : Length of 30 meters

ⓗ Trimming and Shearing line

ⓘ Gas cutting line

Application of steel grade & specification

APPLICATION	STANDARD	PRODUCT GRADE	MACHANICAL PROPERTIES				
			Tensile Strength	Yield Strength	Elongation	C	
			Min, Mpa	Min, Mpa	Min, %	Max, %	
HOT ROLLED STEEL PLATE FOR STRUCTURAL QUALITY	ASTM	A36	400-550	250	20	0.25	0.
		A283 Gr.C	380-515	205	22	0.24	0
		A573 Gr.70	485-620	290	18	0.27	0.
	JIS	SM400A	400-510	235	22	0.23	0.
		SM400B				0.20	0.
		SM490A	490-610	315	21		
		SM490B				0.18	1
		SM490YA		355	19	0.20	
		SM490YB					
		SS400	400-510	245	21		
		SS490	490-610	285	19		
	EN	S235 JR	360-510	235	22	0.17	1
		S235 J0					
		S235 J2					
		S275 JR	410-560	275	19	0.21	
		S275 J0				0.18	1
		S275 J2					
		S355 JR	470-630	355	18	0.24	
		S355 J0				0.20	1
		S355 J2					
	CSA40.21	38W/260W	410-590	260	20	0.20	0.
		44W/300W	440-620	300	20	0.22	0.
		50W/350W	450-650	350	18	0.23	0.
		60W/400W	520-690	400	16	0.23	0.
	AS	3678 Gr.250	410	280	22	0.22	1
		3678 Gr.300	430	320	21		
		3678 Gr.350	450	360	20		
HOT ROLLED STEEL PLATE FOR PRESSURE VESSEL QUALITY	ASTM	A285 Gr.C	380-515	205	23	0.28	0
		A515 Gr.60	415-550	220	21	0.24	
		A515 Gr.70	485-620	260	17	0.31	1
		A516 Gr.60	415-550	220	21	0.21	0.
		A516 Gr.70	485-620	260	17	0.27	0.
HIGH-STRENGTH LOW ALLOY STEEL FOR STRUCTURAL QUALITY	ASTM	A572 Gr.50	450	345	18	0.23	
		A572 Gr.55	485	380	20	0.25	
		A572 Gr.60	520	415	18	0.26	1
		A572 Gr.65	550	450	19		
		A709 Gr.50	450	345	18	0.23	
HOT ROLLED STEEL PLATE FOR LINE PIPE	API	2W Gr.50	448	345-517	23	0.16	1.
		5L X42	414-758	290-496	30	0.22	1
		5L X60	517-758	414-565	24		1
		5L X65	531-758	448-600			1
		5L X70	565-758	483-621			1
HOT ROLLED STEEL PLATE FOR HULL STRUCTURAL	ABS	Gr.A	400-520	235	22	0.21	0.
		AH32	440-590	315	22	0.18	
		AH36	490-620	355	21		0.
		DH32	440-590	315	22		
		DH36	490-620	355	21		
		EH32	440-590	315	22		
		EH36	490-620	355	21		
	Lloyd's	Gr.A	400-520	235	22	0.21	0.
HIGH-STRENGTH LOW-ALLOY STRUCTURAL STEEL WITH ATMOSPHERIC CORROSION RESISTANCE	ASTM	A709 Gr.50W Type A	450	345	18	0.19	0.
		A709 Gr.50W Type B	450	345	18	0.2	0.

Note : Mechanical properties and chemical composition table shows basic chemical contents of each steel standard, they might be changed according to their remarks or regulations.

CHEMICAL COMPOSITION										
Mn	Si	P	S	Cr	Ni	Cu	Mo	Nb	V	Ti
%	%	Max, %	Max, %	%	%	%	%	%	%	%
80-1.20	0.15-0.40	0.040	0.050							
.90 Max		0.035	0.040							
85-1.20										
50-1.20		0.035	0.035							
60-1.40	0.35 Max									
.60 Max	0.55 Max									
		0.050	0.050							
.40 Max		0.035	0.035			0.55 Max				
		0.030	0.030							
		0.025	0.025							
.50 Max		0.035	0.035							
		0.030	0.030							
		0.025	0.025							
.60 Max	0.55 Max	0.035	0.035							
		0.030	0.030							
		0.025	0.025							
50-1.50		0.04	0.05							
50-1.50		0.04	0.05							
50-1.50		0.04	0.05							
50-1.50		0.04	0.05							
.70 Max	0.55 Max	0.040	0.040	0.30 Max	0.50 Max	0.40 Max	0.10 Max			0.040 Max
								Nb+V+Ti=0.150 Max		
.90 Max		0.035	0.035	0.30 Max	0.40 Max	0.40 Max	0.12 Max	0.02 Max	0.03 Max	0.03 Max
.20 Max	0.15-0.40									
60-1.20										
85-1.20										
.35 Max	0.15-0.40	0.040	0.050					0.005-0.05	0.01-0.15	0.006-0.04
15-1.60	0.05-0.50	0.030	0.010	0.25 Max	0.75 Max	0.35 Max	0.08 Max	0.03 Max	0.01 Max	0.007-0.02
.30 Max		0.025	0.015					Nb+V+Ti=0.150 Max		
.40 Max										
.45 Max										
.65 Max										
50-1.20	0.50 Max	0.035	0.035							
90-1.60	0.10-0.50			0.20 Max	0.40 Max	0.35 Max	0.08 Max	0.02-0.05	0.05-0.10	0.02 Max
50-1.20	0.50 Max	0.035	0.035							
80-1.25	0.30-0.65	0.03	0.03	0.40-0.65	0.4	0.25-0.40			0.02-0.10	
75-1.35	0.15-0.50	0.03	0.03	0.40-0.70	0.5	0.20-0.40			0.01-0.10	

Maximum length of steel plate by width and thickness

Normal grade

Thick									
	1,001-1,050	1,151-1,100	1,101-1,150	1,151-1,200	1,201-1,250	1,251-1,449	1,450-1,524	1,525-1,600	1,601-1,700
5-6	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
7	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
8-19	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
20-25	16,000	16,000	16,000	16,000	16,000	13,430	16,000	16,000	16,000
26-30	16,000	16,000	16,000	15,629	15,004	11,192	16,000	16,000	16,000
31-35	15,310	14,614	13,979	13,396	12,861	9,593	16,000	16,000	16,000
36-40	13,396	12,788	12,232	11,722	11,253	8,394	16,000	16,000	16,000
41-45	11,908	11,367	10,872	10,419	10,003	7,461	16,000	15,629	14,710
46-50	10,717	10,230	9,785	9,378	9,002	6,715	16,000	14,066	13,239
51-55	9,743	9,300	8,896	8,525	8,184	6,105	16,000	12,788	12,035
56-60	8,931	8,525	8,154	7,815	7,502	5,596	15,256	11,722	11,032
61-65	8,244	7,869	7,527	7,213	6,925	5,165	14,082	10,820	10,184
66-70	7,655	7,307	6,989	6,698	6,430	4,796	13,076	10,047	9,456
71-75	7,145	6,820	6,523	6,252	6,002	4,477	12,205	9,378	8,826
76-80	6,698	6,394	6,116	5,861	5,627	4,197	11,442	8,791	8,274
81-85	6,304	6,018	5,756	5,516	5,296	Can't Produce	10,769	8,274	7,788
86-90	5,954	5,683	5,436	5,210	5,001	Can't Produce	10,171	7,815	7,355
91-95	5,641	5,384	5,150	4,936	4,738	Can't Produce	9,635	7,403	6,968
96-100	5,359	5,115	4,893	4,689	4,501	Can't Produce	9,154	7,033	6,619
101-105	5,103	4,871	4,660	4,465	4,287	Can't Produce	8,718	6,698	6,304
106-110	4,871	4,650	4,448	4,263	4,092	Can't Produce	8,321	6,394	6,018
111-115	4,660	4,448	4,254	4,077	Can't Produce	Can't Produce	7,960	6,116	5,756
116-120	4,465	4,263	4,077	Can't Produce	Can't Produce	Can't Produce	7,628	5,861	5,516
121-125	4,287	4,092	Can't Produce	Can't Produce	Can't Produce	Can't Produce	7,323	5,627	5,296
126-130	4,122	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	7,041	5,410	5,092
131-135	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	6,780	5,210	4,903
136-140	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	6,538	5,024	4,728
141-145	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	6,313	4,850	4,565
146-150	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	6,102	4,689	4,413

High grade

Thick									
	1,001-1,050	1,151-1,100	1,101-1,150	1,151-1,200	1,201-1,250	1,251-1,449	1,450-1,524	1,525-1,600	1,601-1,700
6	13,000	13,000	13,000	13,000	13,000	13,000	10,000	10,000	10,000
7	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
8-13	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
14-19	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
20-25	16,000	16,000	16,000	16,000	16,000	13,430	16,000	16,000	16,000
26-30	16,000	16,000	16,000	15,629	15,004	11,192	16,000	16,000	16,000
31-35	15,310	14,614	13,979	13,396	12,861	9,593	16,000	16,000	16,000
36-40	13,396	12,788	12,232	11,722	11,253	8,394	16,000	16,000	16,000
41-45	11,908	11,367	10,872	10,419	10,003	7,461	16,000	15,629	14,710
46-50	10,717	10,230	9,785	9,378	9,002	6,715	16,000	14,066	13,239
51-55	9,743	9,300	8,896	8,525	8,184	6,105	16,000	12,788	12,035
56-60	8,931	8,525	8,154	7,815	7,502	5,596	15,256	11,722	11,032
61-65	8,244	7,869	7,527	7,213	6,925	5,165	14,082	10,820	10,184
66-70	7,655	7,307	6,989	6,698	6,430	4,796	13,076	10,047	9,456
71-75	7,145	6,820	6,523	6,252	6,002	4,477	12,205	9,378	8,826
76-80	6,698	6,394	6,116	5,861	5,627	4,197	11,442	8,791	8,274
81-85	6,304	6,018	5,756	5,516	5,296	Can't Produce	10,769	8,274	7,788
86-90	5,954	5,683	5,436	5,210	5,001	Can't Produce	10,171	7,815	7,355
91-95	5,641	5,384	5,150	4,936	4,738	Can't Produce	9,635	7,403	6,968
96-100	5,359	5,115	4,893	4,689	4,501	Can't Produce	9,154	7,033	6,619

Unit : MM

Width									
1,701-1,800	1,801-1,900	1,901-2,000	2,001-2,100	2,101-2,200	2,201-2,300	2,301-2,400	2,401-2,500	2,501-2,600	2,601-3,048
13,000	13,000	13,000	10,000	10,000	10,000	10,000	10,000	10,000	Can't Produce
13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	Can't Produce
13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	13,430	13,430
16,000	16,000	16,000	16,000	16,000	16,000	15,629	15,004	11,192	11,192
16,000	16,000	16,000	15,310	14,614	13,979	13,396	12,861	9,593	9,593
15,629	14,807	14,066	13,396	12,788	12,232	11,722	11,253	8,394	8,394
13,893	13,161	12,503	11,908	11,367	10,872	10,419	10,003	7,461	7,461
12,503	11,845	11,253	10,717	10,230	9,785	9,378	9,002	6,715	6,715
11,367	10,768	10,230	9,743	9,300	8,896	8,525	8,184	6,105	6,105
10,419	9,871	9,378	8,931	8,525	8,154	7,815	7,502	5,596	5,596
9,618	9,112	8,656	8,244	7,869	7,527	7,213	6,925	5,165	5,165
8,931	8,461	8,038	7,655	7,307	6,989	6,698	6,430	4,796	4,796
8,336	7,897	7,502	7,145	6,820	6,523	6,252	6,002	4,477	4,477
7,815	7,403	7,033	6,698	6,394	6,116	5,861	5,627	4,197	4,197
7,355	6,968	6,619	6,304	6,018	5,756	5,516	5,296	Can't Produce	Can't Produce
6,946	6,581	6,252	5,954	5,683	5,436	5,210	5,001	Can't Produce	Can't Produce
6,581	6,234	5,923	5,641	5,384	5,150	4,936	4,738	Can't Produce	Can't Produce
6,252	5,923	5,627	5,359	5,115	4,893	4,689	4,501	Can't Produce	Can't Produce
5,954	5,641	5,359	5,103	4,871	4,660	4,465	4,287	Can't Produce	Can't Produce
5,683	5,384	5,115	4,871	4,650	4,448	4,263	4,092	Can't Produce	Can't Produce
5,436	5,150	4,893	4,660	4,448	4,254	4,077	Can't Produce	Can't Produce	Can't Produce
5,210	4,936	4,689	4,465	4,263	4,077	Can't Produce	Can't Produce	Can't Produce	Can't Produce
5,001	4,738	4,501	4,287	4,092	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce
4,809	4,556	4,328	4,122	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce
4,631	4,387	4,168	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce
4,465	4,230	4,019	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce
4,311	4,085	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce
4,168	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce	Can't Produce

Width									
1,701-1,800	1,801-1,900	1,901-2,000	2,001-2,100	2,101-2,200	2,201-2,300	2,301-2,400	2,401-2,500	2,501-2,600	2,601-3,048
10,000	10,000	10,000	10,000	10,000	10,000	Can't Produce	Can't Produce	Can't Produce	Can't Produce
13,000	13,000	13,000	13,000	13,000	13,000	Can't Produce	Can't Produce	Can't Produce	Can't Produce
13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	10,000
13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000	13,000
16,000	16,000	16,000	16,000	16,000	16,000	16,000	16,000	13,430	13,430
16,000	16,000	16,000	16,000	16,000	16,000	15,629	15,004	11,192	11,192
16,000	16,000	16,000	15,310	14,614	13,979	13,396	12,861	9,593	9,593
15,629	14,807	14,066	13,396	12,788	12,232	11,722	11,253	8,394	8,394
13,893	13,161	12,503	11,908	11,367	10,872	10,419	10,003	7,461	7,461
12,503	11,845	11,253	10,717	10,230	9,785	9,378	9,002	6,715	6,715
11,367	10,768	10,230	9,743	9,300	8,896	8,525	8,184	6,105	6,105
10,419	9,871	9,378	8,931	8,525	8,154	7,815	7,502	5,596	5,596
9,618	9,112	8,656	8,244	7,869	7,527	7,213	6,925	5,165	5,165
8,931	8,461	8,038	7,655	7,307	6,989	6,698	6,430	4,796	4,796
8,336	7,897	7,502	7,145	6,820	6,523	6,252	6,002	4,477	4,477
7,815	7,403	7,033	6,698	6,394	6,116	5,861	5,627	4,197	4,197
7,355	6,968	6,619	6,304	6,018	5,756	5,516	5,296	Can't Produce	Can't Produce
6,946	6,581	6,252	5,954	5,683	5,436	5,210	5,001	Can't Produce	Can't Produce
6,581	6,234	5,923	5,641	5,384	5,150	4,936	4,738	Can't Produce	Can't Produce
6,252	5,923	5,627	5,359	5,115	4,893	4,689	4,501	Can't Produce	Can't Produce



Hot Rolled Plate



Plate Manufacturing Process

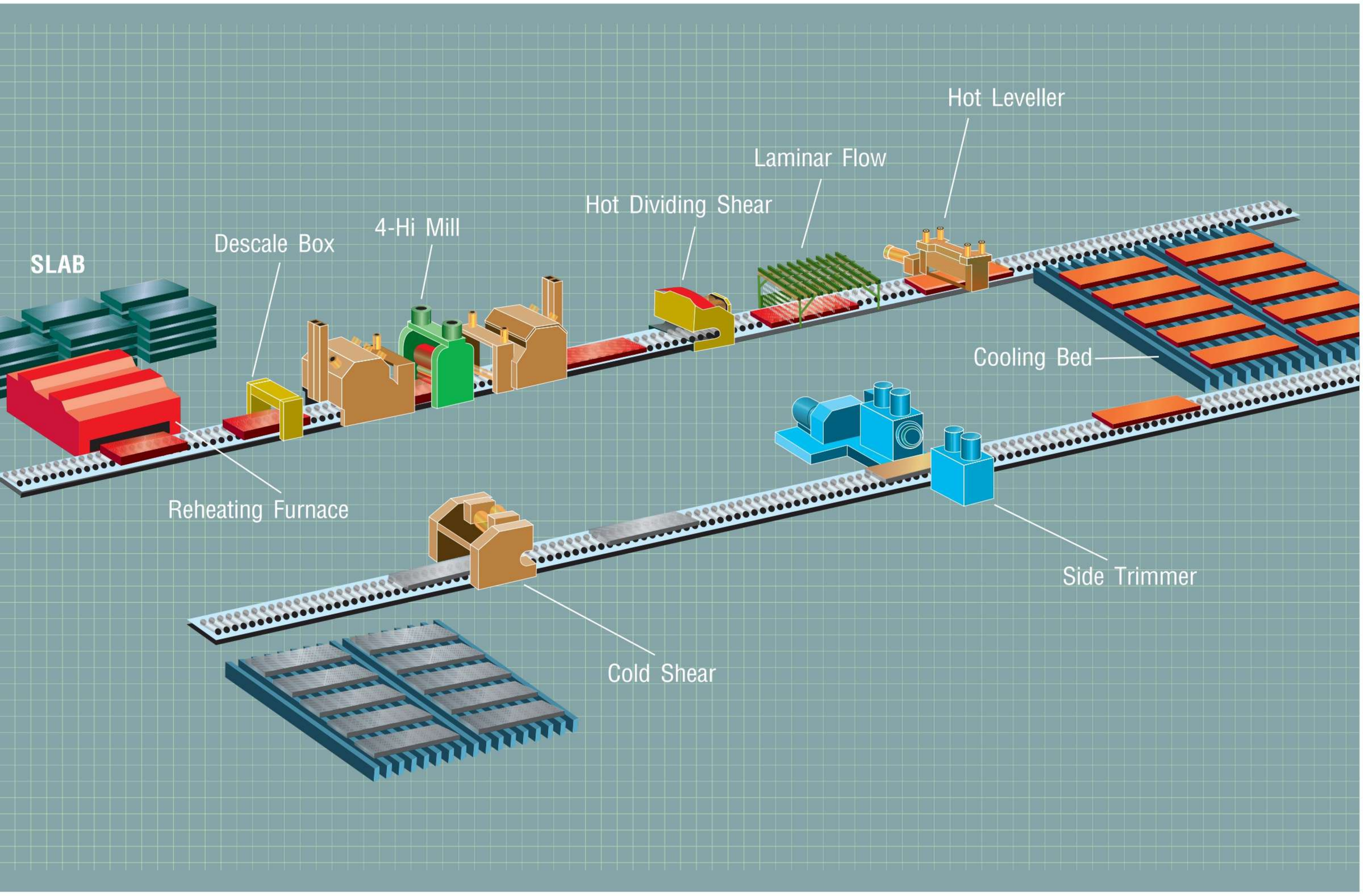


Plate Manufacturing Process

Based on the finished product size, the slab is gas cut and charged into the Reheat Furnace until the temperature reaches 1,250 deg C.

The oxide (scale) formed during the reheating stage is removed by the high pressure descaler before transfer to 4-Hi Reversing Mill. The slab is then rolled to the desired thickness, width and length controlled by Hydraulic Automatic Gauge Control (HAGC)

The plate is then passed through the Hot Plate Leveller. Based on the product grade requirement, TMCP, as Rolled and air cooling technologies are applied. The quality inspection is performed at the cooling bed and the sample is sent to our own laboratory for chemical and mechanical testing. Then the plate is passed through the side trim and shearing line. Marking on the plate is done prior to delivery to the customer.

INTERNATIONAL

TESTING LABORATORY

In the year 1999, LPN Plate Mill PCL started its state-of-art testing laboratory for performing both destructive and non - destructive tests to meet International standards. The laboratory has been approved under ISO/IEC 17025 for measuring mechanical properties and chemical analysis of the steel products according to ASTM and other standards. The laboratory has been designated to be one of the official testing labs for the Thai Industrial Standards Institute (TISI).







• Tensile Test - To determine the tensile strength, yield strength and elongation of steel by using a 200 ton universal tensile testing machine. The test result can be simply read from a computer display screen.

• Bending Test - To test the ability of cold forming into various shapes.

• Impact Test - To determine the toughness of the material and measure the energy absorption by the material before breaking at the specific test temperature. The test material is prepared in proper sizes and beveled into a V-shaped (Charpy V-Notch). The specimen dimensions are precisely measured within 10 microns, after which it is conditioned down to temperatures as low as ~70°C using a multi-cool system before testing. Regular calibration of this testing machine is based on Standard Reference Material (SRM)

• Hardness Test - Uses Rockwell and Vickers Standard Indenters to measure steel resistance to permanent deformation.

• Chemical Analysis - To test chemical contents of the products or to confirm the analytical result of raw materials derived from the suppliers in relation to the analysis standards of ASTM E415 by relying on Spark Emission Method. The method can indicate over 16 elements upon a chemical composition analysis of iron and steel metals.

• Non-destructive Testing - Includes ultrasonic tests to check for cracks or internal defects, magnetic particle methodology by magnetic yoke, and penetrant testing to locate defects on the material surface by ASNT Level ll laboratory personnel.



Logistics



The slabs are delivered from approved sources to the Koh-Sichang anchorage. The slabs are loaded from the vessel to the barges and towed through the Chao Phraya River to LPN port.

Based on the quantity to be exported, a small quantity of plates are delivered by trucks to the loading ports such as Bangkok Port, Laem Chabang Port and Sri-Racha Port. In case of a large quantity, plates are delivered by barges to Koh-Sichang Port for loading.

Certificate



Certificate of Approval

This is to certify that the Management System of:

LPN PLATE MILL PUBLIC COMPANY LIMITED

199/9 Moo 4, Suksawad Road, Pakklongbangplakod, Phasamutchedi Samutprakarn, 10290, Thailand

has been approved by LRQA to the following standards:

ISO 9001:2015

Approval number(s): ISO 9001 – 00015283

The scope of this approval is applicable to:

Manufacture of Hot Rolled Steel Plate : Carbon Steel and High Tensile Strength Low Alloy Steel

Luis Cunha

Area Operations Manager - North Asia & SAMEA

Issued by: LRQA Limited



CERTIFICATE

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of

LPN PLATE MILL PUBLIC COMPANY LIMITED

199/9 MOO 4, SUKSAWAD ROAD, PAKKLONGBANGPLAKOD, PRASAMUTCHEDEE, SAMUTPRAKARN 10290 THAILAND

has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 14001:2015

Scope of certification:

MANUFACTURING OF HOT ROLLED STEEL PLATE: CARBON STEEL AND HIGH TENSILE STREGTH LOW ALLOY STEEL

Certificate number: TH026895



CERTIFICATE

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of

LPN PLATEMILL PUBLIC COMPANY LIMITED

199/9 MOO 4, SUKSAWAD ROAD, PAKKLONGBANGPLAKOD, PRASAMUTCHEDEE, SAMUTPRAKARN 10290 THAILAND

has been audited and found to be in accordance with the requirements of the management system standards detailed below

ISO 45001:2018

Scope of certification:

MANUFACTURING OF HOT ROLLED STEEL PLATE: CARBON STEEL AND HIGH TENSILE STREGTH LOW ALLOY STEEL

Certificate number: TH026897



Certificate of Conformity of Factory Production Control

This certificate is issued to:

Manufacturer: LPN Plate mill Public Company Limited
199/9 Moo 4 Suksawad Road, Pakklongbangplakod, Prasamutchedee, Samutprakarn, 10290, Thailand

In compliance with *Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011* (the Construction Products Regulation or CPR), this certificate applies to the construction product:

Hot Rolled Structural Steels - Plate

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the standard(s)

EN 10025-1:2004 Hot Rolled Products of Structural Steels – General Technical Delivery Conditions

under system 2+ are applied and that the factory production controls fulfil all the prescribed requirements set out above.

The attached Schedule, of the same date, details the manufacturing location(s), harmonised product standard and product parameters and shall form a part of this certificate.

This Certificate will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.

Certificate No: 0343/CPR/MUM/PRJ11100431413/1
Original Approval: 04 March 2025
Current Certificate: 04 March 2025
Expiry Date: 03 March 2028
LRQA Notified Body Number: 0343

Keval Nikam, Decision Maker on behalf of LRQA Nederland B.V.



แบบ มอ.๔
ลำดับที่ ๑

ใบอนุญาตที่ ท 9642-60/1479

ใบอนุญาต
ทำผลิตภัณฑ์อุตสาหกรรม

อาศัยอำนาจตามความในมาตรา ๒๐ แห่งพระราชบัญญัติมาตรฐานผลิตภัณฑ์อุตสาหกรรม พ.ศ. ๒๕๓๓
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
ออกใบอนุญาตฉบับนี้ให้

บริษัท แอล พี เอ็น เพลทมิล จำกัด (มหาชน)

เลขประจำตัวผู้เสียภาษีอากร 0107539000014

ทำผลิตภัณฑ์อุตสาหกรรม เหล็กกล้าทรงแบนรีดร้อน สำหรับงานโครงสร้างทั่วไป

ที่ทำถูกต้องตามมาตรฐานผลิตภัณฑ์อุตสาหกรรม เหล็กกล้าทรงแบนรีดร้อน สำหรับงานโครงสร้างทั่วไป

มาตรฐานเลขที่ มอก. 1479-2566

ทำที่โรงงานชื่อ บริษัท แอล พี เอ็น เพลทมิล จำกัด (มหาชน)

ที่หมู่อุตสาหกรรม -

ตั้งอยู่เลขที่ 199/9 หมู่ที่ 4 ตรอก/ซอย -

ถนน สุขสวัสดิ์ ตำบล/แขวง ปากคลองบางปลากด อำเภอ/เขต พระสมุทรเจดีย์

จังหวัด สมุทรปราการ ทะเบียนโรงงานเลขที่ 91070000125420

รายละเอียดของผลิตภัณฑ์อุตสาหกรรมที่ได้รับอนุญาต แสดงไว้ในลำดับที่ ๒

บันทึกการเปลี่ยนแปลง แสดงไว้ในลำดับที่ ๓

ทั้งนี้ ผู้รับใบอนุญาตต้องปฏิบัติตามเงื่อนไขในการอนุญาตที่เลขาธิการกำหนด

ออกให้ ณ วันที่ 25 กุมภาพันธ์ 2569

(นายสุคตะนนท์ ไสวนิคย์)
ผู้อำนวยการกองควบคุมมาตรฐาน
ปฏิบัติราชการแทน
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม



แบบ มอก./มยผ.
Form มรช/มยผ 2

ใบรับรองเลขที่ 21 LB0030
(Certificate No.)

ใบรับรองระบบงาน
(Certificate of Accreditation)

อาศัยอำนาจตามความในพระราชบัญญัติการมาตรฐานแห่งชาติ พ.ศ. ๒๕๕๑
(By Virtue of National Standardization Act B.E. 2551 (2008))

เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Secretary-General, Thai Industrial Standards Institute)

ออกใบรับรองฉบับนี้ให้
(Issues this certificate to)

บริษัท แอล พี เอ็น เพลทมิล จำกัด (มหาชน)
(LPN Plate Mill Public Company Limited)

ตั้งอยู่เลขที่
(Address)

๑๙/๙ หมู่ที่ ๔ ถนนสุขสวัสดิ์ ตำบลปากคลองบางปลากด อำเภอพระสมุทรเจดีย์ จังหวัดสมุทรปราการ
(199/9 Moo 4, Suk Sawat Road, Pak Khlong Bang Pla Kot, Phra Samut Chedi, Samut Prakarn)

ได้รับการรับรองความสามารถ
(Certificate of competence)

ตามมาตรฐานเลขที่ มอก. ๑๗๐๒๕ - ๒๕๖๓
(Standard No. TIS 17025-2561 (2018) ISO/IEC 17025: 2017)

ข้อกำหนดทั่วไปว่าด้วยความสามารถของ ห้องปฏิบัติการทดสอบและห้องปฏิบัติการสอบเทียบ
(General requirements for the competence of testing and calibration laboratories)

หมายเลขการรับรองที่ ทดสอบ ๑๖๕๕
(Accreditation No. Testing 1655)

โดยมีรายละเอียดสาขาและขอบข่ายที่ได้ใบรับรอง แสดงไว้ใน QR CODE และ www.tisi.go.th
(Details of the scheme and scope of the certificate are shown in QR CODE and www.tisi.go.th)

ออกให้ ณ วันที่ ๑๗ กันยายน พ.ศ. ๒๕๖๔
(Issue date : 17 September B.E. 2564 (2021))

(นายเอกนิติ รมยานนท์)
ผู้อำนวยการสำนักงานคณะกรรมการการมาตรฐานแห่งชาติ
ปฏิบัติราชการแทน
เลขาธิการสำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม

กระทรวงอุตสาหกรรม สำนักงานมาตรฐานผลิตภัณฑ์อุตสาหกรรม
(Ministry of Industry Thailand, Thai Industrial Standards Institute)



Electronically published by ABS Houston.
Reference T2441603, dated 23-AUG-2023.

ABS
FOUNDED 1862

CERTIFICATE NUMBER
STML-T2441603

ISSUING OFFICE
Houston Materials

CERTIFICATE OF
STEEL MILLS
FACILITY AND PROCESS APPROVAL

This is to certify that a representative of ABS did, at the request of

LPN PLATE MILL PUBLIC COMPANY LIMITED

199/9 MU 4 SUKSAWAD ROAD, SAMUTPRAKARN, Thailand, 10290

attend its facilities as indicated in the ABS City Bangkok Port port office survey report number 5741473 dated 27 March 2023 in order to carry out a survey of the facilities and associated quality procedures. The facility is considered capable of manufacturing

Plate components for marine applications

in accordance with the ABS Approval letter (Reference T2441603), ABS Rules, designated standards and ABS approved drawings. The approval is valid till 14 March 2028 subject to adherence to relevant ABS Rules and Survey requirements.

Marcus Cridland
Chief Metallurgist, ABS
ISSUE DATE: 27 March 2023
EXPIRY DATE: 14 March 2028

MAR C CERT R1



Page 1 of 2
Certificate No: LR2638614WA
Issue Date: 31/08/2026
Expiry Date: 30/08/2029

Approved Manufacturer of Steel Plates, Strip, Sections & Bars

Manufacturer	LPN PLATE MILL PUBLIC COMPANY LIMITED
Address	199/9 Moo 4, Suksawad Road, Pakklongbangplakod, Phasamutchedi, Samutpakarn, 10290, Thailand
Type	Steel Plates

This approval is subject to compliance with the Rules for the Manufacture, Testing and Certification of Materials. The full details of the processes and grades to which this approval applies are given on subsequent pages of this certificate.

This certificate is issued to the named manufacturer, and is valid until the expiry date specified. Lloyd's Register is to be notified of any change that may affect the validity of this certificate, and reserves the right to cancel or withdraw this certificate.

APPROVED

Lalitha Muthyala

Units 1702-1704, 17th Floor (Level-13), Building Q2, Aurum Q Parc, Gen 4/1 TTC, Thane-Belapur Road, Ghansoli, Navi Mumbai, 400710, India

Lalitha Muthyala
Metallurgical Specialist to Lloyd's Register Marine and Offshore India LLP
A member of the Lloyd's Register group

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LR01 2.0

Road to International Trust

- ABS (American Bureau of Shipping)
- CE Mark
- EN (European Standard)
- Lloyd's (Lloyd's Register's Rules and Regulations)
- ISO (International Organization for Standardization)
- MiT (Made in Thailand)
- TIS (Thai Industrial Standards)
- CBAM (Carbon Border Adjustment Mechanism)
- Green Industry

Clients

ASTW

aibel

A-POWER KENSETSU CO.,LTD. บริษัท เอ เพาเวอร์ เคนเซทซึ จำกัด

ASIMAR

ASIAN STEEL PRODUCT CO.,LTD. BANGKOK

AWACS

B&E

BIGGAS TECHNOLOGY COMPANY LIMITED

BJCHI

B.S.Y.CONSTRUCTION CLIENTS' BEST CONTRACTOR

CAZ

CB&I

EMECH ENGINEERING

Chevron

CHRISTIANI & NIELSEN

CPS

CREMER The world is our market.

CS AUTOPARTS INDUSTRY CO.,LTD.

CTCI

CUEL

DAIHEN

DANIELI

EMPower Engineering Co., Ltd.

GETABEC Boiler & Burner Specialist German-Thai Boiler Engineering Cooperation

GCON Goal Construction Engineering Co., Ltd.

HARIN SHIPYARD

HICRETE

himile Thailand

HI-STEEL HI-STEEL PRODUCTS CO.,LTD

HYUNDAI ENGINEERING & STEEL INDUSTRIES

IETL

iMMS INFRASTRUCTURE SOLUTION

iNOVE

JFE

JUTHA

KOBELCO

KOMATSU

Lamprell

โลหะเจริญค้าเหล็ก Lohah Charoen Metal Trade

MACSTEEL INTERNATIONAL

Manchai

MAT MARINE ACME THAI

Marsun SINCE 1980

MARUBENI ITOCHU STEEL

MCDERMOTT

MCS M.C.S. STEEL PUBLIC COMPANY LIMITED

MITSUI&CO.

MEI ENGINEERING

MM STEEL

บริษัท นาคา วิศวมิตร จำกัด

Clients

NAWARAT
NIPPON STEEL TRADING
BE STEEL
PATKOL
PAT-TARA PILING
PTSC THANH HOA
ptt
posco DAEWOO
Petrofac
REAL SOLUPLUS
SWJ
ฤทธา RITTA
RT RIGHT TUNNELLING
ROJPAIBOON
SAIPEM
SINO-THAI
S
SCG DISTRIBUTION
SHINJIN
SIAM STEEL
SW
Sinopec
SHI-ASIA
SUMMIT METAL PLATE Right Now!
SLK STEEL CO.,LTD.
SLOT-NANKAI
N
SOECON SOECON ENGINEERING CO.,LTD.
SPRC
STEEL MAX INTERNATIONAL
STEMCOR Every step in steel
STP&I
STRR
SUMMA N.K.CONTRACTING CO.,LTD.
SG SUMMIT GRADE
TMi THAI METAL IMPORT
TANGENT Kanadevia CO., LTD.
TANKERS SUTEE
SUGA
TATA STEEL
TFT TECHNO FAB THAILAND
TH Thai Herrick Co., Ltd.
TNS
RO ROTARY
TCS บริษัท ธนาสารเซ็นทรัลสตีล จำกัด THANASARN CENTRAL STEEL CO.,LTD.
TINDY
Thaioil
tmc
TPN
Tokyo Enesys (Thailand) Co.,Ltd. Q'd
TOZZHIN INTERNATIONAL CORP., CO.,LTD.
TSHI บริษัท ทีเอสเอชไอ เอ็นจิเนียริง จำกัด
UNIMIT
UNIQUE
UNITHAI Shipyard and Engineering
VIPCO
VPE VATANA PHAISAL ENGINEERING CO., LTD.
WTT


Offshore


Suvarnabhumi International Airport
Profil

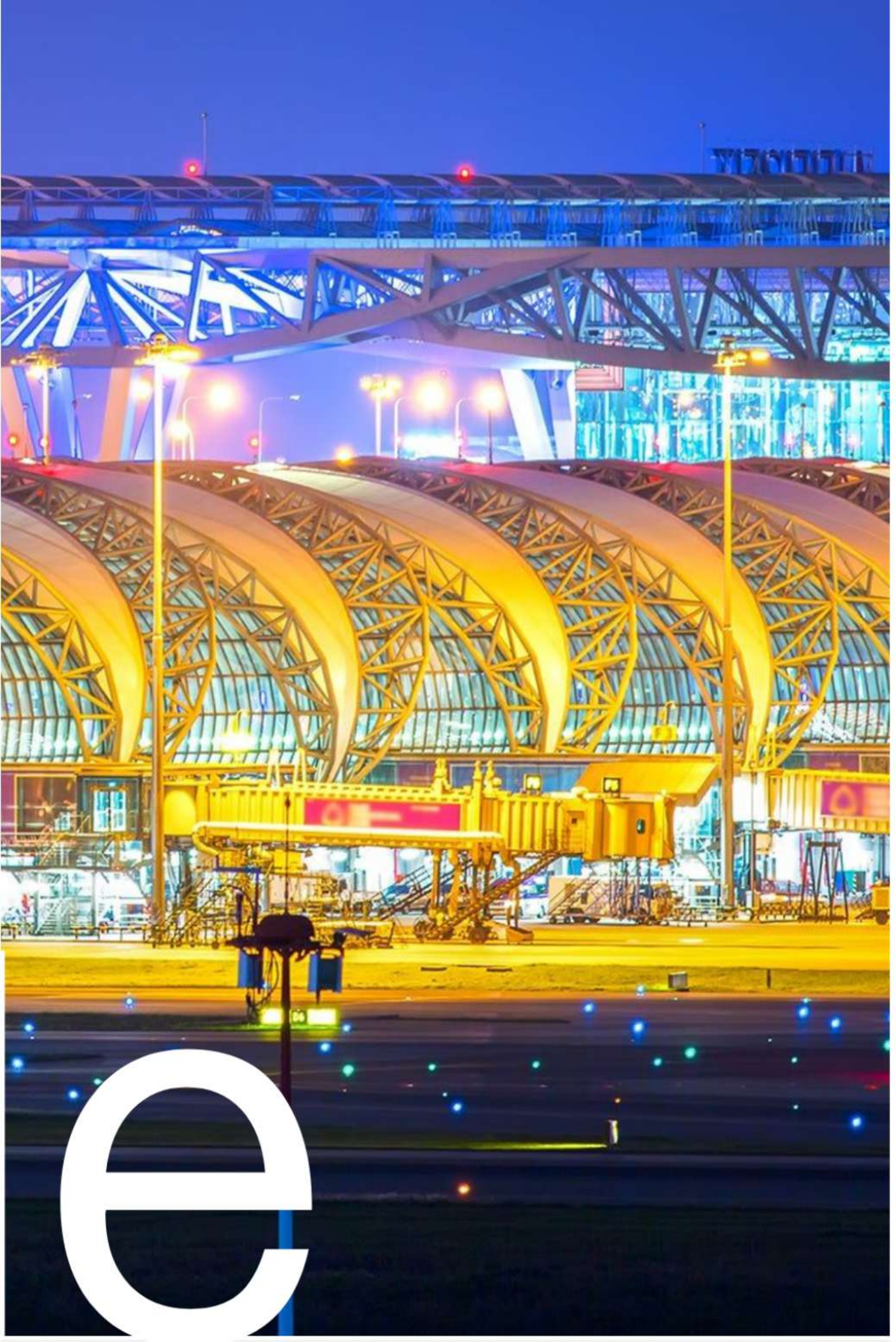

Thotsamarachan Bridge

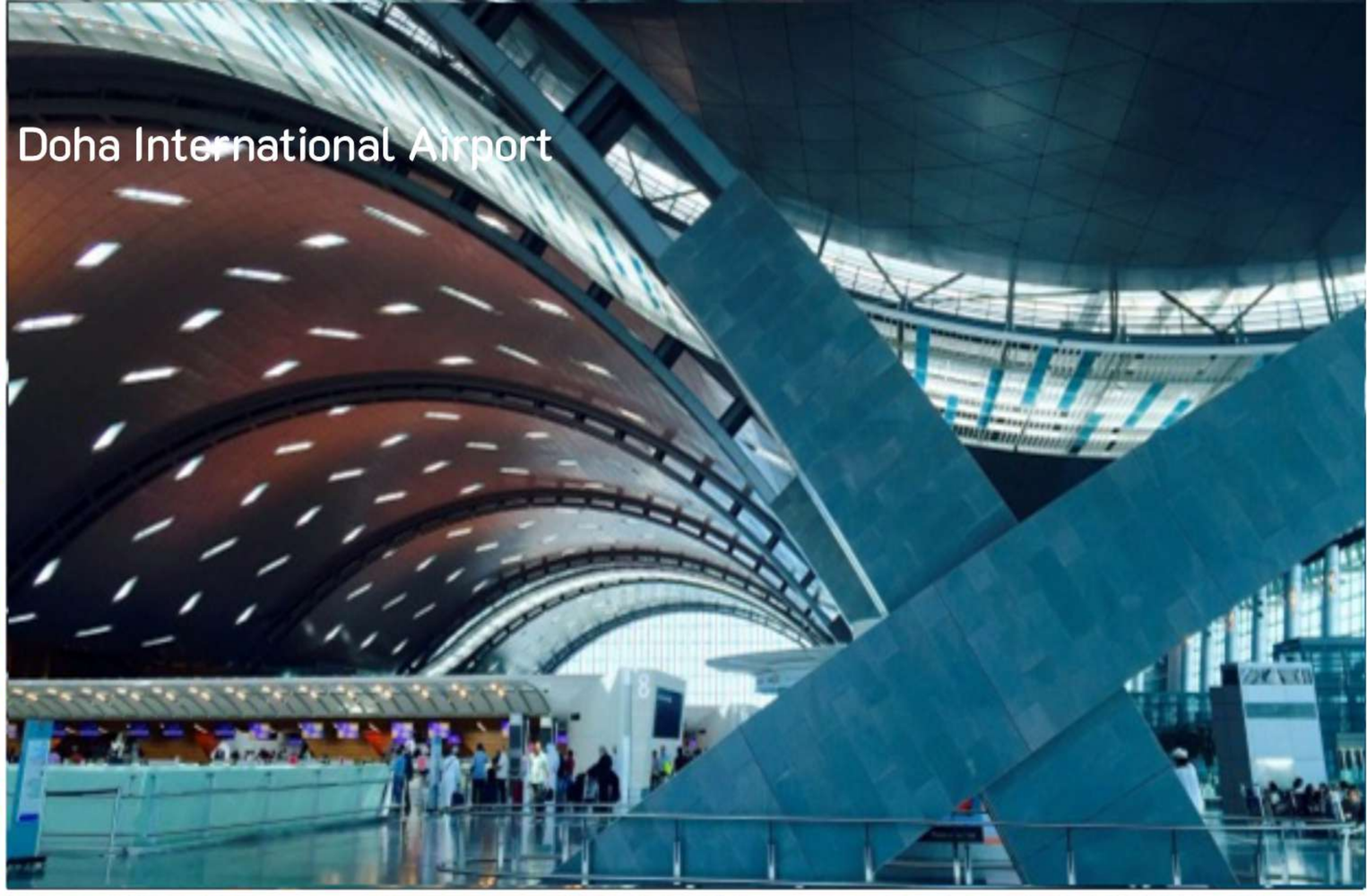

Oil&Gas Pipelines


Clean Fuel Project


Farm Terminal

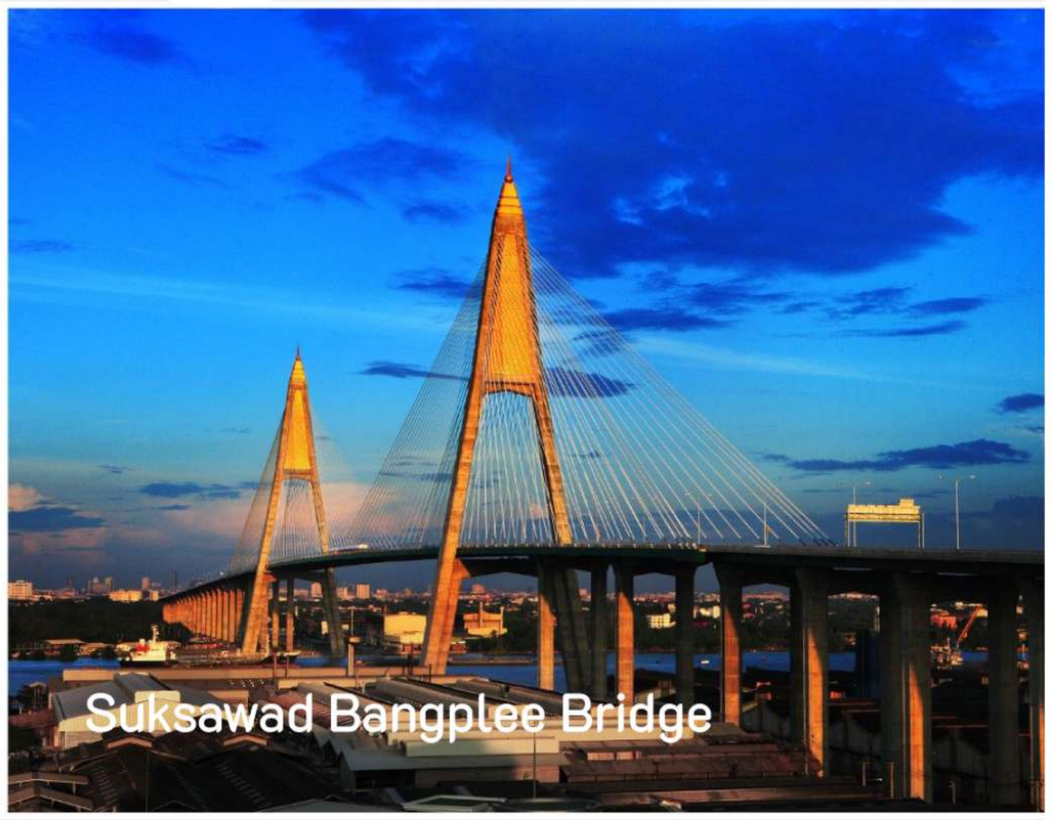

Motorway-M81



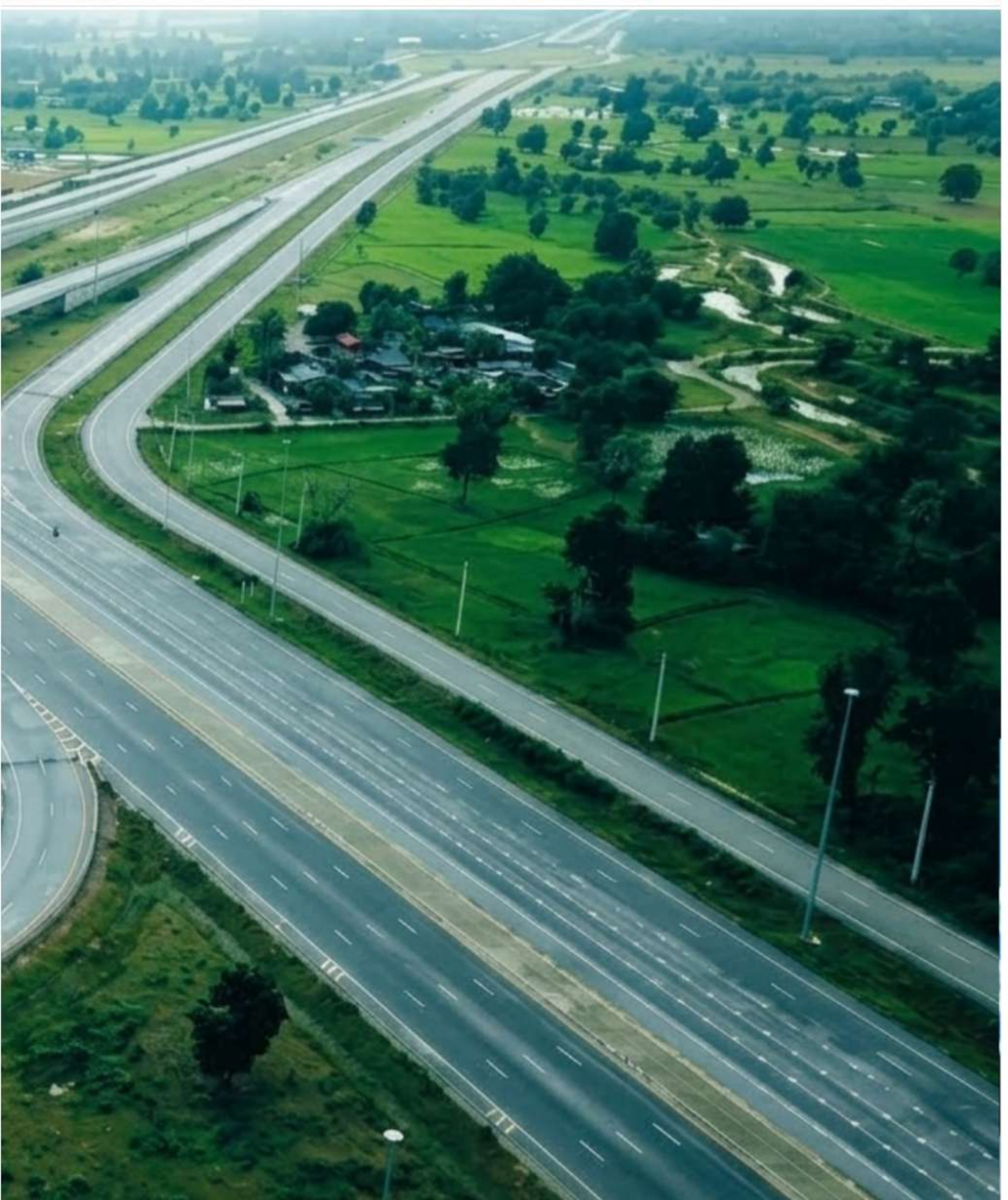

Doha International Airport

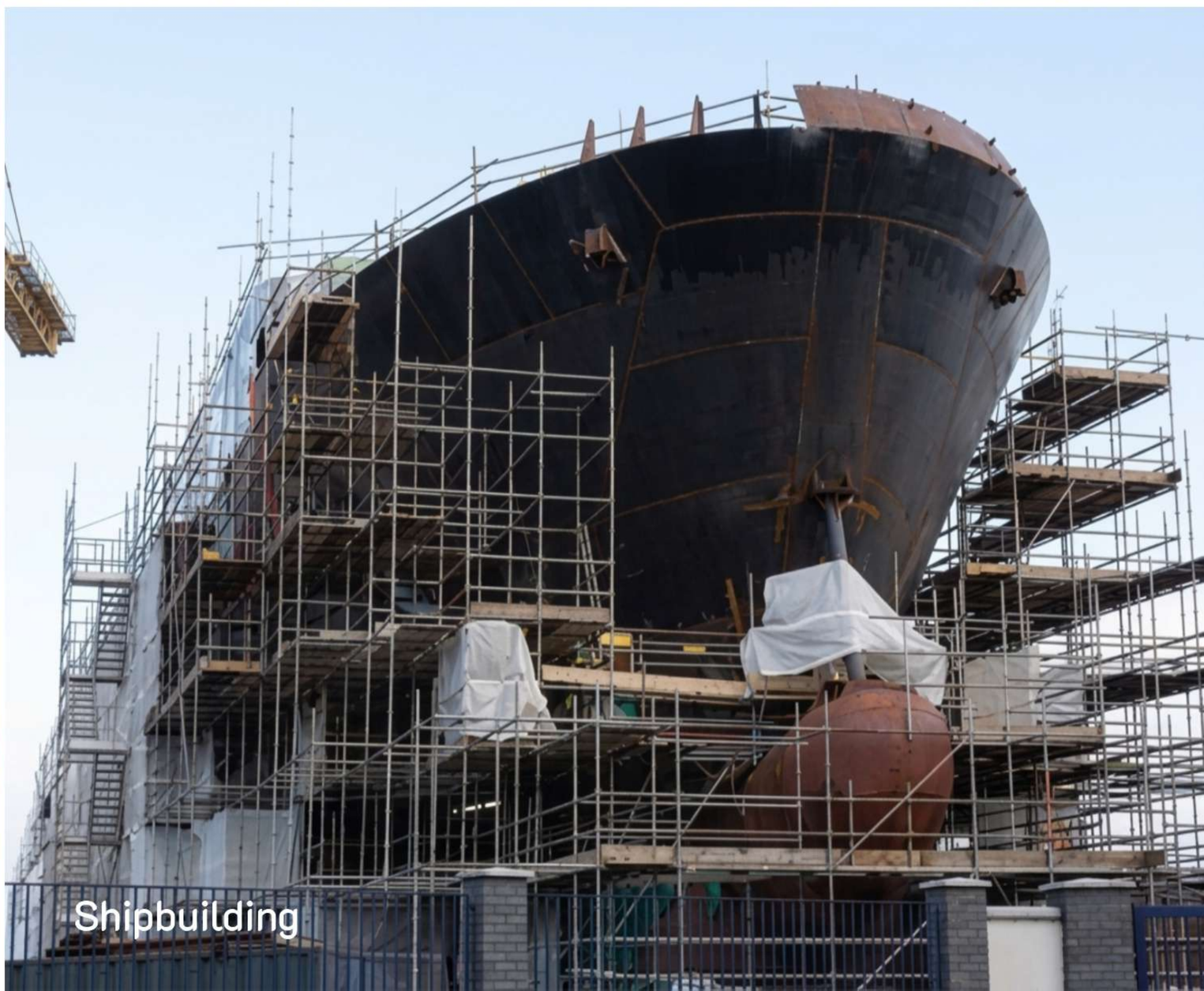

BTS Skytrain


Excavator


Suksawad Bangplee Bridge


National Assembly of Thailand




Shipbuilding

LPN PLATE MILL

LPN PLATE MILL PUBLIC COMPANY LIMITED

Factory : 199/9 Moo 4 Pakklongbangplakod, Prasamutjedee, Samutprakarn 10290
Tel : +66 2 815 6400-9 Fax : +66 2 815 6427

E-mail : sales@lpnpm.co.th