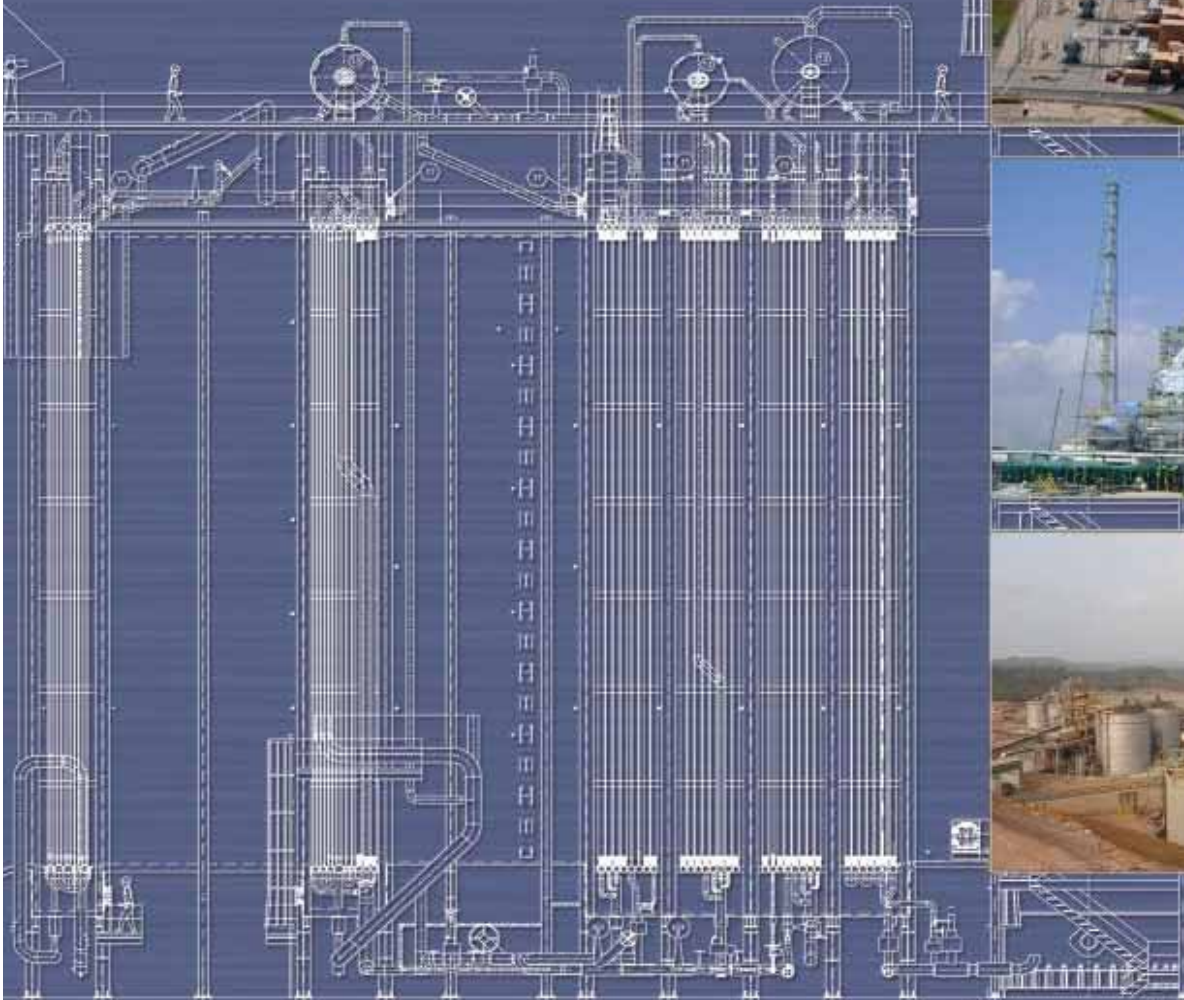




Visavakit Patana Corporation



www.vipco-thai.com

POLICY

Quality Policy

Visavakit Patana Corp., Ltd.

is committed to satisfy customers needs by delivering products and services on time and to contracted quality standard. These products are produced under a quality system that is recognized by the entire organization and undergoes continuous review and improvement by personnel at all levels.

Occupational Health and Safety Policy

Visavakit Patana Corp., Ltd. has adopted TIS/OHSAS 18001 standard in the company. It shall be direct responsibility of all to create safety working and it is a part of business, supporting with the following policy :

1. The company is committed to prevent occupational injuries and illnesses and will put risks under procedural control to attain an acceptable level of safety performance for all activities and ensure compliance with all legal requirements applicable to occupational health and safety.
2. The company has set goals that will continuously reduce the number of accidents.
3. The company is implementing of occupational health and safety in all areas and providing resources adequately for such implementation to be effective. We will nurture accountability for working safely by every employee.

STEP TO SUCCESS

1979

Establish the company and set up VIPCO 1 workshop at Pathumthani.



1980-1996

VIPCO grew robustly with cement plant construction work and later on focused on power plant and petrochemical construction work.

QUALITY & CERTIFICATE

Our quality management system, health and safety management system are certified according to ISO9001 and TIS OHSAS18001 respectively by state owned, Management System Certification Institute (Thailand) or MASCI.

Main workshop and Laem Chabang workshop are both certified to build pressure parts and boiler & pipe spool parts with ASME "U", "S", "R" National Board.

VIPCO carries out all ultrasonic, magnetic particle, penetrant testing by in house certified inspectors per ASNT-TC-1A guideline. Radiographic tests are performed by third party certified inspectors.



STEP TO SUCCESS

1997

VIPCO 2 Workshop was set up and became main workshop and main office of VIPCO.



1998

Start export work by deliver CO-Combustor to Taiwan.

2000

Obtained TIS/ISO9002:1994 certified by MASCI.



PRODUCTS SERVICES



Manufacturing/ Fabrication

- High frequency welded spiral finned tube.
- Heat recovery steam generator (HRSG) harps & module boxes.
- Boiler pressure parts/Economizers.
- Box type and cylindrical type fire heaters.
- Boiler ducts, casing and stacks.
- Steam drums, vessels, tanks and absorber
- Pipe spools.
- Mills/pulverizers
- Crushers / belt conveyor.
- Stacker & reclaimer
- Structural steel & platform work



STEP TO SUCCESS

2004

Obtained ASME certification for pressure vessel (U) and power boiler (S) manufacturing in main workshop.



2005

Laem Chabang workshop was set up for manufacturing finned tube and HRSG module boxes.



Installation / On site services :

- Gas turbines
- Steam turbines
- Fans & pumps
- Piping
- Tanks & silos
- Absorbers
- Boilers and related equipments
- Fire heaters
- Columns/drums & trays
- Material handling systems
- Pipe rack & building structure
- Replace/repair boiler tubes / harps
- Inspect /overhaul air heaters
- Condenser tubes replacement

Focused Industries :

- Power Generation
- Petrochemical & Refinery
- Oil & Gas exploration
- Cement & Mining
- Steel Mill
- Pulp & Paper
- General Manufacturing



STEP TO SUCCESS

2006

Obtained ASME certificate for pressure vessel (U) and Power boiler (S) manufacturing in LCB Shop



Started manufacturing finned tube the same year 2006 and fully active in manufacturing HRSG & Fire heater module boxes.

2008

Obtained OHSAS18001 certificate form MASCI.



MAIN WORKSHOP & ACTIVITIES



▼ Qatar - DRI Tower Structure



▼ AEP - Spray Dryer Absorber



▼ Millmerran - Coal Mills



▼ Kris-ANT Axial Fan





Since 1997, VIPCO had continuously expanded its main workshop (VIPCO 2) until the total area is now more than 100,000 sq.m. With more than 48,000 sq.m. under roof area and fully equipped equipments necessary for heavy fabrication work, this main workshop can produce more than 1,800 MT per month of fabricated steel.

During the past ten years, more than 70% of the fabricated steel work produced from this main workshop was destined to fill export orders. These included power generation, petrochemical and refinery industry, such as components of power boilers, fire heaters, coal mills, coal handling system, pipe spools, tanks & vessels and structural steel works.

The combined capacity of all VIPCO workshops can reach 3,000 MT per month.

Apart from being the main workshop producing most of heavy fabricated steel components, VIPCO 2 is also the main office of key personnel and engineering team taking care business of the company including construction businesses.

VIPCO 1 workshop which was set up since 1979 having 8,000 sq.m. area and 200 MT/month capacity can be reached within 15 minutes driving from main workshop.

This shop will take overflow from the main workshop or when a specific job like platform work or pipe spool work can be executed alone in this dedicated area.



▼ Rabigh - Boiler Duct



▼ San Isidro - HRSG NPP



▼ Shuqaiq - Pipe Spool



▼ Metro - Rotary Dryer



FINNED TUBE PRODUCTS & LCB WORKSHOPS



Laem Chabang workshop comprises the VIPCO 4 and VIPCO 5 buildings that were set up in year 2005 with the purpose to have finned tube manufacturing facility right next to a harp fabrication shop and having the further modularization process be able to execute very close to LCB Port, the biggest sea port of Thailand.

With the support of four finning machines which can fin form 1.5" to 10.75" OD tubes and length not less than 20 m., VIPCO can serve most demands on HRSG, WHRU and fire heater works.

▼ Roseville, CA, USA



▼ Treasure Coast, FL, USA



▼ Bartow, FL, USA



▼ Connectiv, PA, USA





VIPCO 5 is one of the two buildings in LCB workshop located in tax free zone of Laem Chabang Industrial Estate, solely dedicated to fit up & welding of headers and harps made from finned tube manufacturing in the adjacent fin shop.

If shop space in VIPCO 5 shop is not enough to perform module boxes assembly for big scale project, the finished & hydrotested harps will be transported to LCB Port assembly yard for box modularization.



▼ Energy Del Sur , Argentina



▼ Motiva , TX , USA



▼ Condamine , Australia



▼ Cape Preston , Australia



ASSEMBLY YARD IN LCB PORT



After using open yard area in Laem Chabang Port for assembly oversize module work since 1998, VIPCO decided to set up VIPCO 6 workshop in 2006 with two covered buildings in an open yard assembly area right next to C-Zero Port of LCB to serve a demands from clients who need to maximize shop work for modularized units.

Because VIPCO 6 workshop is very close to fin and harp shop, this workshop is the ideal location for assembly HRSG box assembly, fire heater or WHRU convection boxes or even complete modularized units.

▼ Shadeed DRI - Top Gas Scrubber



▼ Shadeed DRI - Purge Gas Tank



▼ Astoria - HRSG Stack



▼ Bartow - HRSG Box loading





♥ Valero – Fire Heater Modules

♥ Petrologistic – Convection Box

♥ Reliance – Convection Boxes

♥ Motiva – Convection Boxes



INSTALLATION & ON SITE SERVICES



Erection skills has long been one of VIPCO's important strength. During 30 years of mechanical installation, VIPCO has one of the lowest personnel turnovers among similar contractors in the region, and most key personnel of VIPCO are fully competent at field work execution and management with long list of construction projects during their time at VIPCO to prove this.

◀ VIPCO participated in both Sepon Gold Plant and Copper Refinery Plant construction during the year 2002 - 2004 and still showing its competency for Copper Plant Expansion in year 2008



◀ Bangchak Refinery Product Quality Improvement Project Piping fabrication and installation work

TPI Ethylene Project
Conventional boilers, ESP, steam turbine, BOP and piping Installation. ▶



▼ Asia Cement



▼ Sepon Copper-Duplex Tanks



▼ BKK Cogent - Gas Turbine 6FA



▼ TPI Ethylene - Steam Turbine



VIPCO realizes in the seriousness of client's strict requirement in Health and Safety for site construction.

With many years working in severe safety environment of construction site such as refineries, petrochemical plants and chemical plants with world class EPC's, VIPCO is very confident that we can comply with any safety rules demanded on site.

PTT - HMC PDH Project had a tough requirement in safety requirement of which project management done by Bechtel but VIPCO completed fabrication and erection box type fire heaters successfully with a good track record.



Ratchaburi Combine Cycle Project Installation of HRSC x 2 units



Krabi Power Project Installation of FGD System



▼ Maemoh 4 - 7 - FGD Ducts

▼ Maemoh Mine - Conveyor

▼ Ubolratana - Dam Gate

▼ COCO III - Coal Handling



VIPCO WORKSHOPS LOCATION





www.vipco-thai.com



REGISTERED OFFICE

215/148-149
Pracharad 1 Rd,
Bangsue,
Bangkok 10800 Thailand.
Tel : +66-(0)2-585-2556 to 8
Fax : +66-(0)2-587-6068
E-mail : vipco@vipco-thai.com

**MAIN OFFICE &
MAIN WORKSHOP (VIPCO 2)**

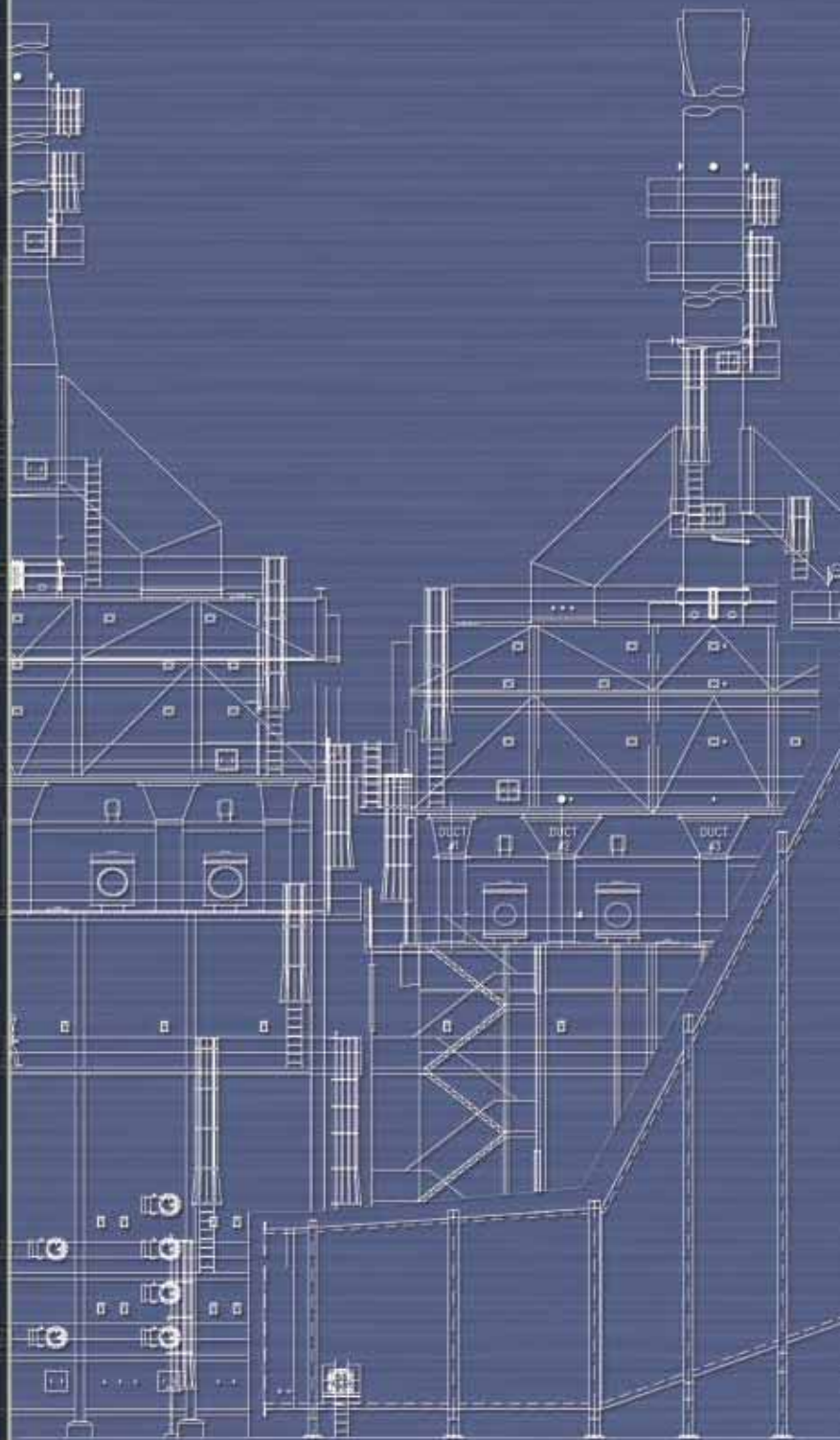
42, 52 Moo.7 , 346 Rd.
Ladlumkaew,
Pathumthani 12140
Tel : +66-(0)2-979-4001 to 8
Fax : +66-(0)2-979-4010

VIPCO 1 WORKSHOP

28/2 Moo.4, Soi Chai Ua,
Pathumthani 12000
Tel : +66-(0)2-975-2811 to 4
Fax : +66-(0)2-975-2815

**FIN TUBE & LCB SHOP
(VIPCO 4 & 5 WORKSHOP)**

Laemchabang Industrial Estate
220 – 220/1 Moo.3 Toongsukla
Sriracha
Chonburi 20230 Thailand
Tel : +66-(0)38-401-207
Fax : +66-(0)38-401-206





VISAVAKIT PATANA CORP., LTD.

COMPANY PROFILE INFORMATION

Dec, 2022

Rev.17



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VIPCO's BRIEF HISTORY



- Apr 1979 - Establish Company.
- Set up VIPCO 1 Workshop, performed erection and fabrication work for minor scale work.
- Jul 1986 - Started major fabrication and erection work for Cement Plant Construction Work and later on became one of the major players of Cement Plant Construction mechanical contractor until 1997.
- May 1996 - Started fabrication non pressure parts of HRSG for MHI - local Wang Noi CCI Project
- Jun 1991 - Set up VIPCO 2 as main workshop.
- Sep 1998 - Started export work by delivery Co-oxidizer to Taiwan, Formosa Petrochemical Project.
- Dec 1998 - Started fabrication work of Pulverizer Casing for export to Europe with order awarded from CPAG.
- Jan 1999 - Started export HRSG Stack to Abu Dhabi.
- Nov 2000 - TIS/ISO 9002:1994 - certified by MASCI.
- Jun 2000 - Start export HRSG Duct and Casing to USA.
- Aug 2004 - TIS/ISO 9001:2000 - certified by MASCI.
- Mar 2004 - U & S ASME certified.
- Apr 2005 - Signed contract with Fin Tube Technology to set up finned tube facility in new VIPCO's workshop, Laem chabang Industrial Estate, Thailand. LCB workshop was located in Export Promotion Zone (EPZ), so operation and export products from this EPZ will be free from import tax.
- Aug 2005 - LCB (Laem Chabang) work shop is partially completed and be used to assembly VIPCO's first order of HRSG module boxes while three tube finning machines were under erection and commissioning.
- Dec 2005 - Start export HRSG Module Boxes assembled from LCB work shop to CA , USA for Siemens Power Plant Project.
- Jan 2006 - Start export finned tube from LCB workshop under order released and production controlled by Fin Tube Technology.



VIPCO's BRIEF HISTORY



- Feb 2008 - VIPCO decided to purchase and took control all of finning equipments in LCB facility.
- Apr 2008 - Certified OHSAS 18001 : 2007 by MASCI.
- Apr 2012 - VIPCO acquired 50,000 m2 area located 20.4 km from Laem Chabang Port to develop new VIPCO 5 for expanding capacity of HRSG harps and fire heater / WHRU coil works. Facilities are expected to ready for operation by October 2013.
- May 2012 - Started overseas construction/installation works for Nui Phao Tungsten Mining in Vietnam.
- Jul 2012 - Certified Canadian Welding Bureau (CWB) at Main Workshop (VIPCO 2).
- Sep 2013 - Start fabrication work and export of Air Preheater, Howden to Taiwan.
- Oct 2013 - VIPCO started harp fabrication and box assembly at new established Nong Kham branch work shop. Shop coding assigned for this work shop is VIPCO 5 while Lam Chabang branch work shop will be VIPCO 4 alone and will focus only fin tube manufacturing.
- Dec 2013 - Certified U & S ASME stamp and CWB at Nong Kham shop (VIPCO 5).
- Jan 2014 - Certified EN1090 and ISO 3864 by TUV NORD at Main Workshop (VIPCO 2).
- Jan 2015 - VIPCO started the expansion of Nong Kham shop (VIPCO 5) by adding another 9,600 m2 covered workshop to support increasing demand in HRSG & Heater / WHRU module boxes.
- Jan 2016 - VIPCO started the expansion of Nong Kham shop (VIPCO 5) to build 5,500 m2 new finned tube work shop right next to harp & box shop. The first phase building will have space to install 8 finning machines and work shop is expected to finish within Oct 2016.
- Apr 2018 - Implement new ERP to increase organization efficiency and improve activities - management.
- Sep 2019 - VIPCO have installed 2 more high frequency Finning machines. Therefore, VIPCO have total 9 finning machines, which make us the biggest Finning shop in South East Asia.



GENERAL COMPANY INFORMATION



COMPANY NAME, ADDRESS & CONTACT NUMBERS

Visavakit Patana Corporation Limited.

URL : www.vipco-thai.com, general e-mail address: vipco@vipco-thai.com, sales@vipco-thai.com

Registered office

215/148-149 Pracharad 1 Rd., Kwang Bangsue, Khet Bangsue, Bangkok 10800 Thailand

☎ + 66 (0) 2-585-2556-8, 585-4306 Fax. + 66 (0) 2-587-6068

Main Workshop (VIPCO 2)

42, 52 Moo 7, Koo-Bang-Luang, Ladlumkaew, Pathumtani 12140 Thailand

☎ + 66 (0) 2-979-4001 to 8 Fax. +66 (0) 2-979-4010

VIPCO 1 Workshop (VIPCO 1)

28/2 Moo 4, Bangkok-Pathumtani Rd., Bang Ka-yang, Muang Pathumtani, Pathumtani 12000 Thailand

☎ + 66 (0) 2-975-2814 Fax. +66 (0) 2-975-2815

Fin shop (VIPCO 4)

220-220/1 Moo 3, Toong Sukhla, Sriracha District, Chonburi 20230 Thailand

☎ + 66 (0) 38-401-207 Fax. +66 (0) 38-401-206

Nong Kham Workshop (VIPCO 5)

599/9 Moo. 1, Nong Kham, Sriracha District, Chonburi 20110 Thailand

☎ + 66 (0) 38-110-709 to 716 Fax. +66 (0) 38-110-720

Assembly Yard (VIPCO 6)

Laem Chabang Port, (near C-0 Seaport), Chonburi, Thailand

PRINCIPAL PERSONNEL

| | | |
|---|-------------------------|--|
| Managing Director | Phaithul Khositsakul | k.phaithul@vipco-thai.com |
| Director, Operations | Weerachart Ariyasajakul | a.weerachart@vipco-thai.com |
| General Manager -Production | Pasuchet Khositsakul | k.pasuchet@vipco-thai.com |
| General Manager, Business Development Division | Nopadon Chawegunrat | c.nopadon@vipco-thai.com |
| Assistant General Manager, Business Development Division | Supakrit Khositsakul | k.supakrit@vipco-thai.com |
| Estimating & Sales Manager | Panudet Ruangsuk | r.panudet@vipco-thai.com |
| Quality Assurance Manager | Nopadon Somboon | s.nopadon@vipco-thai.com |
| Operation Manager (LCB Shop) | Panuwat Jitakul | j.panuwat@vipco-thai.com |
| Purchasing Manager | Supakrit Khositsakul | k.supakrit@vipco-thai.com |

CONTACT for INQUIRY / PROPOSAL

Inquiry / Proposal : sales@vipco-thai.com, vipco@vipco-thai.com

**GENERAL & FINANCIAL INFORMATION (Privately owned, no annual reports published.)**

Year of Establishment 1979
Registered Capital - Baht 250 million

| (All figures millions of Thai Baht) | 2021 | 2020 | 2019 | 2018 | 2017 |
|-------------------------------------|-------|-------|-------|-------|---------|
| Total Assets | 1,549 | 1,600 | 1,321 | 1,361 | 1,251 |
| - Current Assets | 926 | 916 | 643 | 657 | 530.5 |
| - Non-Current Assets | 623 | 684 | 678 | 704 | 720.6 |
| Total Current Liabilities | 927.6 | 994.5 | 706.4 | 663.5 | 533.4 |
| Total Non-Current Liabilities | 31.92 | 16.64 | 33.32 | - | - |
| Revenue | 1,776 | 1,623 | 1,620 | 1,210 | 1,589.3 |

Principal bankers to whom reference can be made

Krung Thai Bank Limited

Branch Mgr., Tel: 66-2-585-7357 to 8, Fax: 66-2-587-4923
20 Yukul 2, Suanmali, Bangkok 10100

Export-Import Bank of Thailand

1192 Phaholyothin Rd., Payathai, Bangkok 10400
Branch Mgr., Tel: 66-2-271-3700, Fax: 66-2-271-3240

PRODUCTS & SERVICES**Manufacturing:**

- Spiral (Helical) Finned Tube (Solid or Serrated type)
- HRSG Harp, Module Box and NPP
- Box type and Cylindrical Fire Heater / WHRU
- Boiler Duct, Casing and Stack
- Structural Steel and Platform work
- Pressure Vessel ,Tank and Silo
- Material Handling System
- Mill / Pulverizer
- Pipe Spool

Installation / On Site Services:

- Site Erection
- Maintenance/Shut down Services for Power Plants, Petrochemical Plants, Cement and Mining Plants, General Manufacturing Plants, Piping installation.

Design Services:

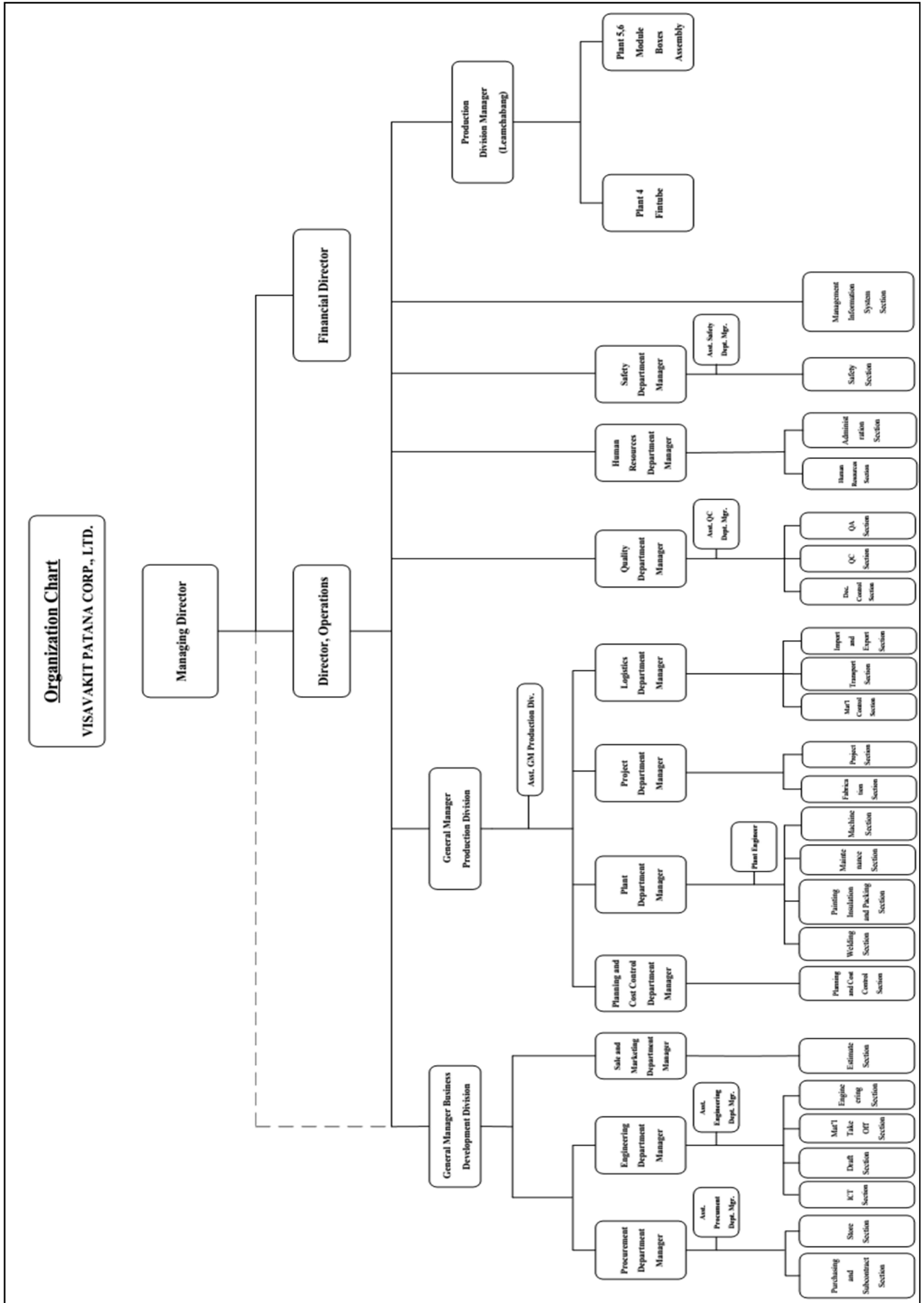
- Tank - API 650 & Vessel - ASME VIII Div.I

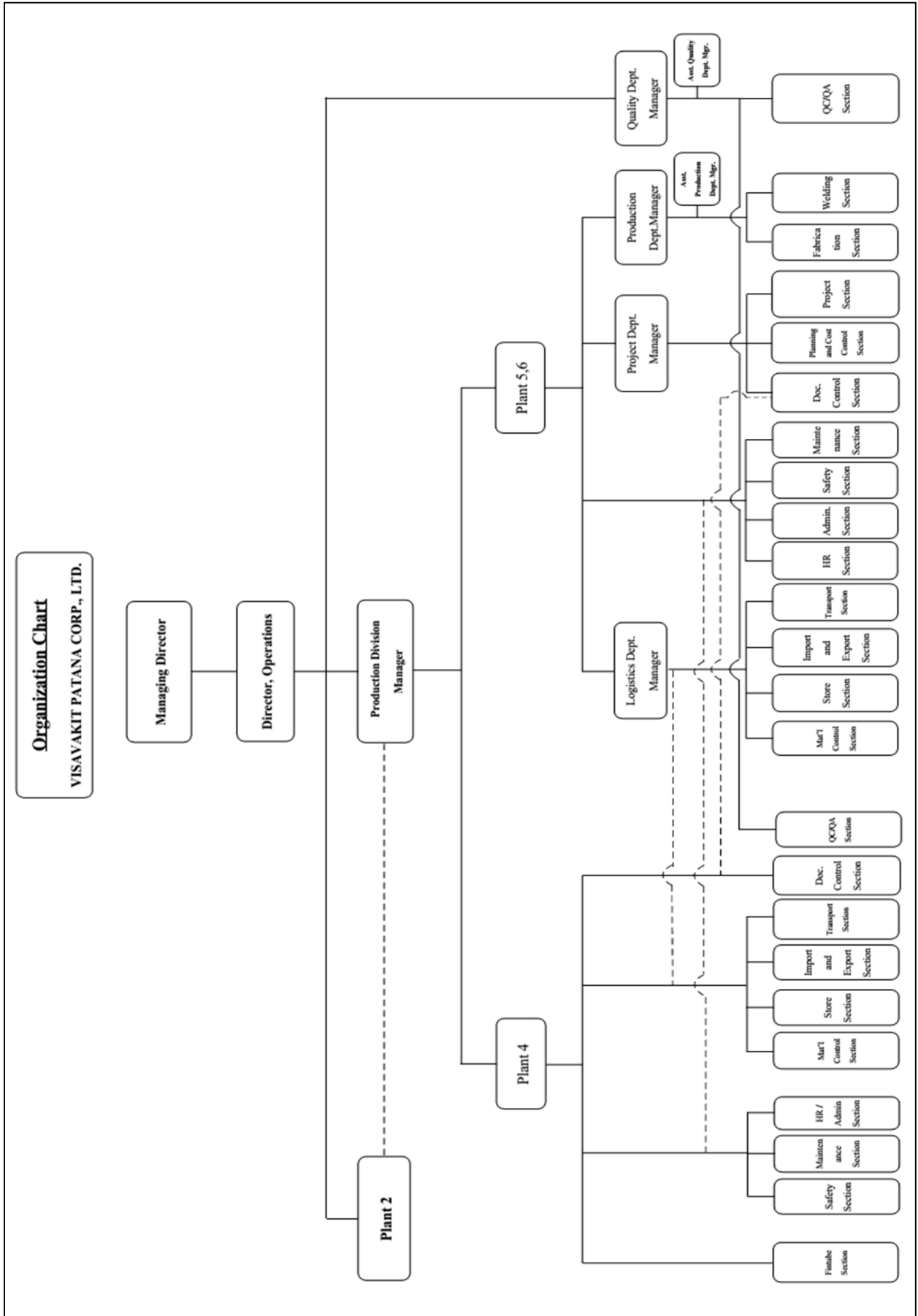


COMPANY ORGANIZATION-



Main Workshop







PRODUCTION FACILITIES

VIPCO 2 Main Workshop – Pathumthani Branch

Heavy fabrication workshop, located in not less than 130,000 m² total land area close to 4 lanes main road. Facilities include >48,000 m² covered workshop and 5,055 m² blasting/painting & loading areas. Rated fabrication capacity is target at 1,300 tons per month.

VIPCO 1 Workshop – Pathumthani Branch

The original VIPCO 1 workshop become general purpose workshop and to serve light fabrication steel work for VIPCO with 12,000 m² total land area include 8,000 m² covered workshop and 600 m² office area. Rated fabrication capacity is approx.100 tons per month.

VIPCO 4 Fin Shop - Laemchabang Branch

Special purpose workshop located in Free Trade Zone of Laemchabang Industrial Estate, Right next to Laemchabang Port, the biggest port of Thailand in Chonburi. LCB workshop comprises two buildings in total 11,455 m². The first building is equipped with five units of high frequency welding finning machine. Max size of tube finning is OD 10.625 inch. The second building is for the additional sixth and seventh finning machine and space spared to add another one or two finning machines. Expected capacity from this work shop in to produce not less than 10,000 tubes per month.

VIPCO 5 Nong Kham Workshop - Laemchabang Branch

Newly established fabrication work shop located 20.4 km away from LCB port. With total 83,600 m² total area and 19,200 m² covered workshop, this work shop is to focus in coil work /harps fabrication and module box modularization of HRSG and convection box modularization for fire heater / WHRU. Peak capacity of this shop is expected to run at 3,000 tons per month or to produce not less than 16 HRSG boxes per month.

VIPCO 6 Assembly Yard - Laemchabang Port Area

With 32,000 m² rental area at Laemchabang Port, equipped with gantry crane and covered building for assembly work make this shop very ideal for assembly complete units or modules of boilers, WHRUs , fire heaters or equipment which have extra sizes and too big to transport through normal road but be a choice of the client / project owner in order to minimize site installation man hours.

PERSONNEL

| | |
|------------------------|--------------|
| Engineering & Drafting | 40 |
| Production | 1,110 |
| QC/QA | 95 |
| Staff & Others | 200 |
| Total | 1,435 |
| Sub-Contractor | 400-600 |



COMPANY OWNED EQUIPMENT



1. CRANES

| | | | |
|--------------------------|---|--------|----|
| Gantry travelling cranes | - | 20 Ton | 1 |
| Gantry travelling cranes | - | 10 Ton | 9 |
| Gantry travelling cranes | - | 5 Ton | 12 |
| Overhead cranes | - | 20 Ton | 23 |
| Overhead cranes | - | 10 Ton | 15 |
| Overhead cranes | - | 5 Ton | 24 |
| Tower Crane | - | 5 Ton | 1 |
| Jib Crane | - | 750 Kg | 1 |
| Jib Crane | - | 250 Kg | 4 |

2. HYDRAULIC PRESSURES & JACKS

| | | | |
|--------------------------|---|----------|----|
| Hydraulic press brake | - | 450 Ton | 1 |
| Hydraulic press brake | - | 400 Ton | 2 |
| Hydraulic press 2 CYD | - | 2000 Ton | 1 |
| Hydraulic press 2 CYD | - | 450 Ton | 1 |
| Hydraulic press 2 CYD | - | 400 Ton | 1 |
| Hydraulic press 2 CYD | - | 200 Ton | 3 |
| Hydraulic press 4 CYD | - | 200 Ton | 1 |
| Vertical hydraulic press | - | 1200 Ton | 1 |
| Hydraulic jacks | - | 100 Ton | 1 |
| Hydraulic jacks | - | 60 Ton | 4 |
| Hydraulic jacks | - | 50 Ton | 8 |
| Hydraulic jacks | - | 30 Ton | 5 |
| Hydraulic jacks | - | 20 Ton | 12 |
| Hydraulic jacks | - | 10 Ton | 10 |
| Reform Press | - | 400 Ton | 1 |

3. CUTTING & PUNCHING EQUIPMENT

| | | | |
|--|---|---------------|---|
| Hydraulic guillotine shearing machine | - | 3100 x 13 mm. | 3 |
| Iron Worker (punching cutting forming) | - | 50 Ton | 5 |
| Power punching machines | - | 60 Ton | 1 |
| Power punching machines | - | 55 Ton | 1 |
| Power punching machines | - | 50 Ton | 1 |
| Power punching machines | - | 45 Ton | 3 |



COMPANY OWNED EQUIPMENT



| | | | |
|---|---|---------------------|-----|
| Eccentric punch | - | 55 Ton | 1 |
| Eccentric punch | - | 40 Ton | 2 |
| Portable hydraulic punchers | - | 45 Ton | 4 |
| Plasma cutting machines | - | 12 mm. | 4 |
| Heavy duty beveling machine | - | 5 - 40 mm. | 5 |
| CNC flame cutting TG-4000S | - | 100 mm. | 2 |
| Hyperformance Plasma HPR260 Auto gas | - | 4 m. x 12 m. 50 mm. | 1 |
| Auto-Flame cutting machine (auto-graph)6torches | - | 5 - 60 mm. thk. | 1 |
| Automatic gas cutting machines | - | 100-150 mm.,thk. | 24 |
| Automatic gas H-shape steel cutting machines | - | 600 x 1000 mm. | 3 |
| Gas cutting torches | - | | 188 |
| Band saw | - | H 700 x 400 , Ø 500 | 1 |

4. BENDING & ROLLING MACHINES

| | | | |
|--|---|--------------------|---|
| Fujicar Bending Roller machine | - | 80t x 4000 mm. | 1 |
| 1200 Te vertical hydraulic plate bending machine | - | 75t x 3750 mm. | 1 |
| Pyramid type, Hydraulic plate bending machine | - | 32t x 3048 mm. | 1 |
| Hydraulic plate bending machine | - | 19t x 3048 mm. | 1 |
| 4-roller plate bending machine | - | 35t x 3100 mm. | 1 |
| 3-roller plate bending machine | - | 60t x 4100 mm. | 1 |
| 3-roller plate bending machine | - | 25t x 3150 mm. | 1 |
| 3-roller plate bending machine | - | 20t x 3200 mm. | 1 |
| 3-roller plate bending machine | - | 19t x 3200 mm. | 1 |
| 3-roller plate bending machine | - | 16t x 3000 mm. | 1 |
| 3-roller plate bending machine | - | 16t x 2500 mm. | 1 |
| 3-roller plate bending machine | - | 6t x 300 mm. | 1 |
| 3-roller plate bending machine | - | 5t x 1700 mm. | 1 |
| 3-roller plate bending machine | - | 5t x 1600 mm. | 1 |
| roller pipe bending machine | - | Ø80 - 4 mm. | 1 |
| roller pipe bending machine | - | Ø 3/4"-Ø3 1/2" mm. | 3 |
| Angle bending | - | L75 x 11 m. | 1 |
| Hydraulic pipe bending machines | - | Ø 10 - 80 mm. | 2 |
| Angle bendor | - | L130 x 12 mm. | 1 |

5. AIR COMPRESSORS

| | | | |
|--------------------------|---|--|----|
| Air Compressor 40 cfm | - | | 4 |
| Air Compressor 148 cfm | - | | 1 |
| Air Compressor 150 cfm | - | | 1 |
| Air Compressor 304 cfm | - | | 1 |
| Air Compressor 117 l/min | - | | 3 |
| Air Compressor 245 l/min | - | | 3 |
| Air Compressor 304 l/min | - | | 27 |
| Air Compressor 315 l/min | - | | 1 |



6. GENERATORS & WELDING MACHINES

| | | | |
|--|---|-------------|----|
| Generator | - | 75 KVA | 1 |
| Generator | - | 150 KVA | 3 |
| Welding Machine | - | 8000 Watt | 2 |
| Automatic submerged arc welding machines | - | 1000A AC/DC | 7 |
| Automatic submerged arc welding machines | - | 650A AC/DC | 4 |
| MIG welding machines | - | 650A AC/DC | 5 |
| FCAW welding machines | - | 500A AC/DC | 23 |
| MIG welding machines | - | 350A AC/DC | 2 |
| TIG welding sets | - | 300A AC/DC | 36 |
| TIG welding sets | - | 200A AC/DC | 2 |
| Welding transformers | - | 500A AC | 49 |
| Welding transformers | - | 400A AC | 22 |
| Welding transformers | - | 300A AC | 62 |
| Welding transformers | - | 150A AC | 5 |
| Robot Welding Machine | - | GMAW / FCAW | 1 |

7. MACHINE SHOP

| | | | |
|---------------------------------------|---|-----------------|---|
| Bevelling plate machine | - | PL 18 m.m. | 3 |
| Bevelling plate machine | - | PL 40 m.m. | 2 |
| Bend saw machine | - | 250 x 175 m.m. | 1 |
| Bend saw machine | - | 250 x 250 m.m. | 1 |
| Bend saw machine | - | 400 x 350 m.m. | 1 |
| Bend saw machine | - | 610 x 440 m.m. | 1 |
| Bend saw machine | - | 700 x 400 m.m. | 2 |
| Bend saw machine | - | 900 x 550 m.m. | 1 |
| NC Auto drill Machine | - | Ø 28 | 1 |
| NC Auto drill Machine | - | Ø 28 H700 | 1 |
| NC Auto drill Machine | - | Ø 28 H900 | 1 |
| CNC Auto drill Machine | - | Ø 95 x 300 m.m. | 1 |
| CNC Auto drill Machine | - | 3150 m.m. | 1 |
| CNC Auto drill Machine | - | 4016 m.m. | 1 |
| CNC Auto Gas Cutting Machine | - | 300 m.m. | 2 |
| CNC Auto Plasma Cutting Machine | - | 2500 x 25 m.m. | 1 |
| CNC Auto Plasma Cutting Machine | - | 4000 x 32 m.m. | 1 |
| CNC Auto Plasma Cutting Machine | - | 4000 x 50 m.m. | 1 |
| CNC Waterjet Pro Cutting Machine | - | 2000 x 180 m.m. | 1 |
| Hydraulic guillotine shearing machine | - | 3050 x 12t m.m. | 2 |



COMPANY OWNED EQUIPMENT



| | | |
|------------------------|------------------------|---|
| Lathes machine | - Ø 18" | 1 |
| Lathes machine | - Ø 24" x 6t | 3 |
| Lathes machine | - Ø 25 m.m | 1 |
| Lathes machine | - Ø 30 m.m | 2 |
| Lathes machine | - Ø 60" x 14t | 1 |
| Lathes machine | - Ø 1425 x 4000 | 1 |
| Lathes machine | - Ø 1150 x 1100 x 1100 | 1 |
| Lathes machine | - Ø 1200 x 4000 x 1100 | 1 |
| Lathes machine | - Ø 2000 x 3500 x 1700 | 1 |
| Pipe Threading Machine | - Ø 1" x 2 ½" long | 6 |
| Plasma Cutting Machine | - SUS 12 mm. | 2 |
| Plasma Cutting Machine | - SUS 30 mm. | 1 |
| Plasma Cutting Machine | - SUS 40 mm. | 9 |

**see additional drilling machines in item 9

8. DRILLING & GRINDING MACHINES

| | | |
|----------------------------------|--------------------------|-----|
| Auto-drilling machine | - Ø 16 – 28 mm. | 1 |
| Radial drills | - Ø 50 mm. | 3 |
| Scm-B1 NC drill | - Ø 50 mm. – 2 m. x 4 m. | 1 |
| Radial drill RE3-1600 | - Ø 50 mm. | 1 |
| Radial drill 2000 | - Ø 50 mm. | 1 |
| Radial drill RH25 | - Ø 50 mm. | 1 |
| Girder drill daido 1500 | - Ø 50 mm. | 2 |
| H-Shape NC drill 3BH900 | - | 1 |
| Electro-pneumatic hammer drills | - Ø 6 – 40 mm. | 4 |
| Magnetic press drills | - Ø 6 – 32 mm. | 13 |
| Electric press drilling machines | - Ø 3 – 6 mm. | 6 |
| Electric handy drills | - Ø 6 – 12 mm. | 24 |
| Electric bench grinders | - Ø 8" and Ø 10" mm. | 3 |
| Grinding machines | - Ø 4" and Ø 7" | 268 |

9. STRUCTURAL STEEL FABRICATION LINE

for structural beams up to H900, consisting of :-

| | | |
|-----------------------|----------------------|---|
| Band saw | - H1000 x 500, Ø 700 | 1 |
| Band saw | - H700 x 400, Ø 500 | 2 |
| NC Drilling machine | - H900 x 300 | 1 |
| NC Drilling machine | - H700 x 300 | 1 |
| Beveling machine | - H900 x 600 | 2 |
| Beveling machine | - Pl. 1200 | 1 |
| Shot blasting machine | - H900 x 300 | 1 |
| NC Line equipment | - | 4 |



10. PUMPS & TESTING EQUIPMENT

| | | |
|---|----------------------------|---|
| Hydrostatic test pump | - 200 Kg / cm ² | 1 |
| Hydrostatic test pump | - 140 Kg / cm ² | 1 |
| Hydrostatic test pump | - 88 Kg / cm ² | 1 |
| Hydrostatic test pump | - 75 Kg / cm ² | 1 |
| End suction pumps | - Ø 4" | 2 |
| Submersible pumps | - Ø 2" | 8 |
| Magnetic particle testing | - | 1 |
| Ultrasonic testing | - | 1 |
| Digital temperature gage (surface probe)-32 to + 999° C | | 1 |
| Thickness testers | - | 4 |
| High Pressure Water Jet Pump | 200 bar, 7.9 GPM | 1 |

11. SURVEYING EQUIPMENT

| | | |
|--|---|---|
| Automatic levels, accuracy 1:500,000 | - | 3 |
| Digital theodolites, accuracy 20 seconds | - | 3 |
| Automatic universal theodolites, Wild T2 | - | 2 |

12. QC EQUIPMENT

| | | |
|---|--|----|
| Positive Material Inspection (PMI) Analyzers (Olympus, INNOV X) | | 3 |
| Portable Hardness Tester (Krautkramer MIC 10) | | 5 |
| Feritscope (Fischer) | | 2 |
| Bore scope (Hawkeye) | | 1 |
| Ultrasonic flaw detectors (UT) (Olympus) | | 5 |
| Magnetic Particle Flaw Detector (MT) | | 8 |
| Surface Roughness Tester | | 1 |
| Coating Thickness Gauge (PosiTector 6000, Standard FS-1) | | 15 |
| Ultrasonic Thickness Gauge (UTM) | | 5 |
| Bresle Salt Kit | | 2 |
| Oxygen Gas Monitor (Aquasol) | | 3 |
| Rockwell Type Hardness Test CV-600A | | 2 |
| Level Sokia (LS) | | 10 |
| Theodolite (LT) | | 6 |
| Thermoneter (TM) | | 4 |
| Hygrometer(HM) | | 18 |



13. FINNING MACHINES (High Frequency Spiral Fin Tube Welding Machines)

Main products – High Frequency Electric Resistance Welded Finned Tubes for both Solid type and Serrated type.

Production Facilities of Finned Tubes Shop

1. Facility :

- High Frequency Electric Resistance Welding M/C – 9 lines (machines) .
VIPCO 4 : 7 lines (machines), VIPCO 5 : 2 lines (machines)
- Tube bending & Cutting line.

2. Capacity of finning machine : See below

| Machine No. | Tube O.D. (Inch) | Fin Thick (mm) | Fin Height (mm) | Fin Pitch (Fins / inch) | Length (m.) | Material |
|-------------|--------------------|------------------|---------------------------------------|---------------------------|---------------|---|
| 1 | 1.5" - 6.625" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 23.2 m. | Fin Material : CS 409SS (11 Cr) 410SS (13 Cr) 304SS 309SS / 310SS Tube Material : CS T11, T22 & Tr91 P11, P22, P5, P9 & P91 304SS , 316SS , 321SS 347SS , 347H Duplex SS 2205 Incoloy 800H |
| 2 | 2" - 10.75" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 21.3 m. | |
| 3 | 1" - 4.5" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 26 m. | |
| 4 | 1" - 2.875" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 23.2 m. | |
| 5 | 1" - 2.875" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 26 m. | |
| 6 | 1" - 4.5" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 26 m. | |
| 7 | 1" - 6.625" | 0.8 - 2.7 | 9 - 32 | 1.5 - 7.6 | 30 m. | |
| 8 | 1" - 4.5" | 0.8 - 2.5 | 8 – 19 (Solid) 8 - 25.4 (Serrated) | 1.0 - 8.63 | 27 m. | |
| 9 | 1" - 4.5" | 0.8 - 2.5 | 8 – 19 (Solid) 8 - 25.4 (Serrated) | 1.0 - 8.63 | 27 m. | |



QUALITY SYSTEM

Over the years, projects to have been undertaken by VIPCO to a variety of standards including American, Japanese, German, British and Thai. VIPCO adopted the TIS/ISO 9002 standard for quality systems in order to provide all customers with a quality assurance programme conforming to an internationally recognized standard. All system documentation has been developed in-house in both Thai and English, yet the system retains the flexibility for meeting specific customer requirements through the production of project-specific quality plans.

ISO 9001:2015 & OHSAS 45001:2018

VIPCO had been certified to be conforming to the requirement of ISO 9002:1994 since November 7, 2000, then conforming to ISO 9001:2015 on July 4, 2021 and re-valid until now. VIPCO also certified according to OHSAS 45001:2018 for Occupational Health and Safety Management System on January 21, 2021, and achieved the target over one million man-hours without lost time injury on 2014.

ASME STAMPED

VIPCO's main workshop and LCB workshop certified to perform pressure parts with ASME's "S", "U", "R" National Board year 2004 and 2005 respectively and VIPCO has policy to keep these certificates valid in order to be active for pressure parts works.

NONDESTRUCTIVE TESTING

Beside radio graphic test which shall be performed by third party's certified inspector. VIPCO carries out ultrasonic, magnetic particle, penetrant testing by own in house certified level I&II inspector, per ASNT-TC-1A guidelines.

WELDING INSPECTION

Welding inspections are performed by well-trained inspector under certified welding inspectors according to AWS standard (CWI and CSWIP 3.1 & CSWIP 3.2.1 Certificates)

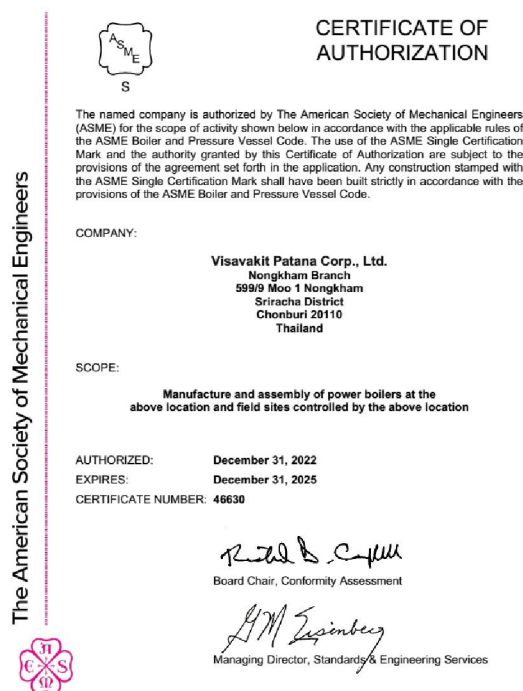
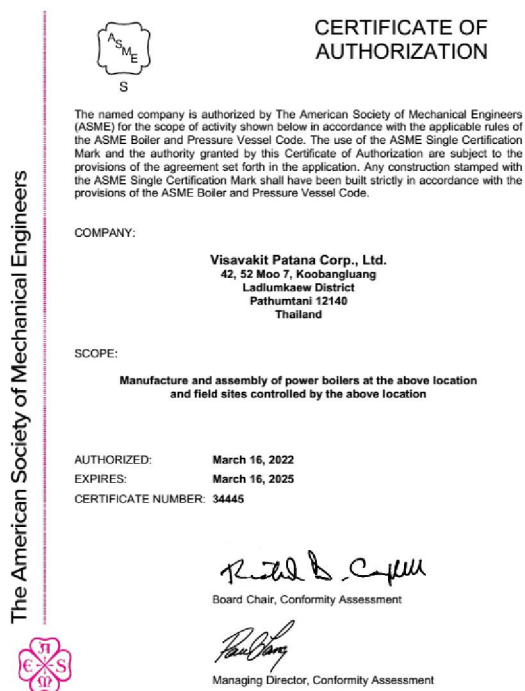
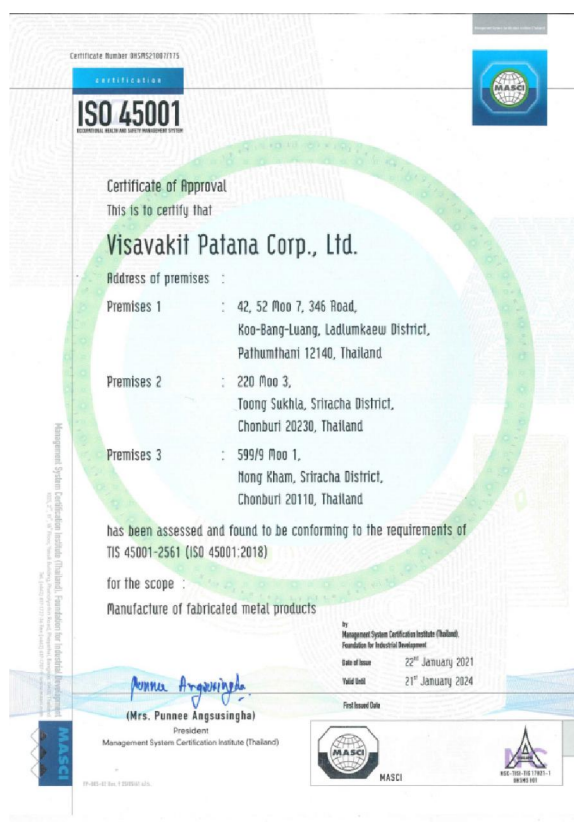
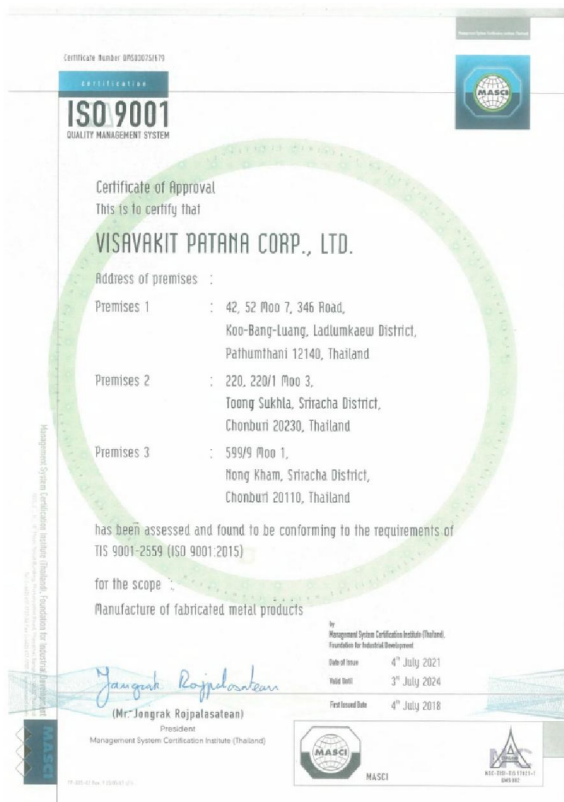
OTHER CERTIFIED INSPECTORS

- Refractory Personal Inspector : API 936
- Protection Coating Inspector : SSPC Level 2 and NACE Level II



PRESSURE TESTING

In order to meet requirement of client's pressure of HRSG in the range of 2500 PSIG, Maximum pressure of testing pumps and related accessories is not less than 3000 PSIG.



The American Society of Mechanical Engineers



CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
Port Branch
Lamchabang Port C0
Toong Sukhala
Sriracha District
Chonburi 20230
Thailand

SCOPE:

Manufacture and assembly of power boilers at the above location and field sites controlled by the above location

AUTHORIZED: **November 23, 2022**
EXPIRES: **November 23, 2025**
CERTIFICATE NUMBER: **54012**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services



The American Society of Mechanical Engineers



CERTIFICATE OF AUTHORIZATION

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COMPANY:

Visavakit Patana Corp., Ltd.
42, 52 Moo 7, Koobangluang
Ladlumkaew District
Pathumtani 12140
Thailand

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **March 16, 2022**
EXPIRES: **March 16, 2025**
CERTIFICATE NUMBER: **34446**

Board Chair, Conformity Assessment

Managing Director, Conformity Assessment



The American Society of Mechanical Engineers



CERTIFICATE OF AUTHORIZATION

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COMPANY:

Visavakit Patana Corp., Ltd.
Nongkham Branch
599/9 Moo 1 Nongkham
Sriracha District
Chonburi 20110
Thailand

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **December 31, 2022**
EXPIRES: **December 31, 2025**
CERTIFICATE NUMBER: **46631**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services



The American Society of Mechanical Engineers



CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
Port Branch
Lamchabang Port C0
Toong Sukhala
Sriracha District
Chonburi 20230
Thailand

SCOPE:

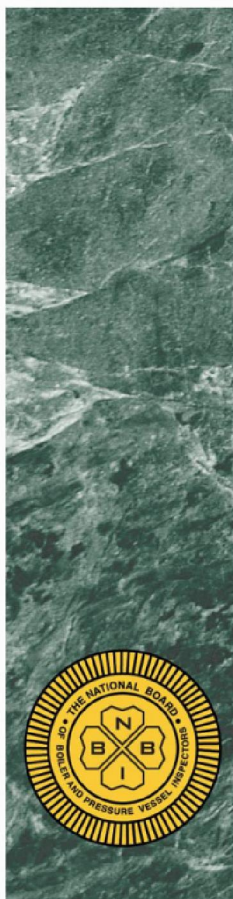
Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **November 23, 2022**
EXPIRES: **November 23, 2025**
CERTIFICATE NUMBER: **54013**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services





THE NATIONAL BOARD OF BOILER & PRESSURE VESSEL INSPECTORS

Certificate of Authorization



This is to certify that Visavakit Patana Corp., Ltd. 42, 52 Moo 7, Koobangluang Ladlumkaew District Pathumtani 12140 Thailand

Acceptable Abbreviation: VIPCO

is authorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NB-415, Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic Repairs and Alterations At Shop and Field Locations

Certification Number: 6464

Issue Date: March 10, 2022

Expiration Date: March 16, 2025

Executive Director



CERTIFICATE

Conformity of the Factory Production Control 0045-CPR-1090-1.00397.TUVNORD.2014.005

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 following construction product:

Table with 2 columns: Field (Construction product, Intended use, CE - marking method, Manufacturer, Manufacturing plant, Confirmation, Date of first issue, Validity end, Period of validity, Remarks, Place and date of issue) and Value.



TUV NORD Systems GmbH & Co. KG, Große Bahnstraße 31, 22525 Hamburg, GERMANY



CERTIFICATE TÜV NORD Systems GmbH & Co. KG

certifies that the company

Visavakit Patana Corp., Ltd. 215/148-149 Pracharad 1 Rd. 10800 Bangkok, Bangsue / Thailand

Manufacturing site see back page has been verified and recognized as welding workshop based on the requirements of the standard

DIN EN ISO 3834-2

Comprehensive quality requirements

Certificate-No.: 07/204/1326/HS/3722/20

The range of validity and details of the inspection can be seen on the back page and in our report

No.: 8118664268

The company is using a quality assurance system, technical equipment, qualified personnel and procedures for joining processes.

This certificate is valid until

May 2023

Hamburg, 27.10.2020

To verify the validity of the digital signature of the TÜV NORD Systems employee, the installation of the TÜV NORD GSDSP not certificate is required: https://www.tuev-nord.de/en/customer-login/digital-signature/



Certification body of TÜV NORD Systems GmbH & Co. KG Accredited Body

TUV NORD Systems GmbH & Co. KG - Technikzentrum • Certification Body Große Bahnstraße 31 • 22525 Hamburg Telefon (0410) 8557-2388 • Fax (0410) 8557-2710 • E-mail: technikzentrum@tuev-nord.de



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GENERAL

Since its establishment in 1979, VIPCO has undertaken a wide variety of mechanical works for industrial plants and projects throughout Thailand. These projects have been in the cement industry, petroleum and fine chemicals, power generation, food and agricultural products, and general manufacturing plants. Project references by industry group are attached.

VIPCO activities on these projects include CAD drafting and plotting, project planning and cost control, material sourcing and control, quality control, fabrication, rigging and erection, and all other activities associated with these types of projects. Some specific capabilities are listed below.

CAPABILITIES BY ACTIVITY CLASSIFICATION

Heat Recovery Steam Generator (HRSG) & Convectional Boilers

- HRSG loose harps, pipe spools and assembled module boxes, manufactured per ASME Section I.
- All HRSG related non pressure parts such as Casing, Structure, Inlet Duct, Stack, Platform and Walkway.
- Non pressure parts for convectional oil fired or coal fired boilers such as Casing, Duct, Wind box, Buckstay. This including plate work for the following back end Air Quality control system such as bag filter, EPS, SCR, FGD both wet scrubber or dry scrubber.

Fire Heater

- Convection Module and related pressure parts.
- Non pressure parts of fire heater such as radiant walls, structure, stack, platform, convection wall and related refractory and insulation works.

Bulk

- Stackers, reclaimers, conveyors, crushers, material handling systems.
- Coal or Limestone silos & bins.

Pulverizer and Gypsum Mills

- Coal Mill or Pulverizer.
- Gypsum Mills and related equipment such as stucco cooler.
- Clinker Mill & Raw Mill.



Tankage, Vessels, Silos

- Petroleum product and utility Tankage to API 650 and similar standards.
- Pressure vessels to ASME VIII and BS 5500 standards.
- Tankage and silos of stainless steel for chemical plants, breweries, etc.

Piping Work

- Power, process and utility piping to B31.1, B31.3 for the used material grade such as CS, P11, P22, P91, Incoloy, Titanium, Duplex (2205), Super Duplex (2507), 304, 316, 347H Stainless Steel.
- Field installation of Piping works.

Structural Steel Works

- Main Structure for cement pre-heater tower, boiler, reactor tower and general steel building and pipe rack.

Equipment Installation / Erection

- All Power Plant equipment including generators, Steam turbines & Gas turbines, boilers, and Balance of Plant equipment.
- Air quality control system equipment such as FGD Absorber, Electrostatic Precipitator, Bag Filter, related duct work and stack.
- Column, Reactor and tray installation.

Industrial Maintenance

- Minor and Major inspection of power plant equipment.
- Boiler tube-harps repair / replacement.

Design Services:

- Tank - API 650 & Pressure Vessel - ASME VIII Div. I



MATRIX OF PRODUCTS



MATRIX OF PRODUCTS MANUFACTURED IN VIPCO'S WORKSHOP

| Product Type | VIPCO WORKSHOP LOCATION | | | | Remark |
|---|---|---|--|--------------------------------------|--------|
| | VIPCO 1 28/2 Moo 4 Soi chai Ua Pathumthani | VIPCO 2 52 Moo7 Ladlumkaew Pathumthani | VIPCO 4&5 220-220/1 M00 3 Tungsukhla Chonburi | VIPCO 6 Lamchang Port Chonburi | |
| 1) Heat Recovery Steam Generator | | | | | |
| 1.1 Finned Tube | | | ✓ | | |
| 1.2 Harp Fabrication | | ✓ | ✓ | | |
| 1.3 Header Pipe & Pipe Spools | | ✓ | ✓ | | |
| 1.4 HRSG Casing, Duct, Stack | ✓ | ✓ | | | |
| 1.5 HRSG Structure & Platform | ✓ | ✓ | | ✓ | |
| 1.6 HRSG Steam Drums | | ✓ | | | |
| 1.7 Module Box Assembly | | | ✓ | ✓ | |
| 2) Fire Heater | | | | | |
| 2.1 Finned Tube | | | ✓ | | |
| 2.2 Convection Coil Fabrication | | | ✓ | ✓ | |
| 2.3 Radiant Coil Fabrication | | ✓ | ✓ | ✓ | |
| 2.4 Radiant & Convection casing | ✓ | ✓ | | | |
| 2.5 Stack & Duct Work | ✓ | ✓ | | ✓ | |
| 2.6 Structure & Platform | ✓ | ✓ | | ✓ | |
| 2.7 Refractory | | ✓ | ✓ | ✓ | |
| 2.8 Modularization Work | | | ✓ | ✓ | |
| 3) Conventional Boiler & AQCS | | | | | |
| 3.1 Casing & Duct Work | ✓ | ✓ | | ✓ | |
| 3.2 Buckstay, Wind Box | ✓ | ✓ | | | |
| 3.3 Structure & Platform | ✓ | ✓ | | ✓ | |
| 3.4 Dry or Wet Absorber | ✓ | ✓ | | ✓ | |
| 3.5 SCR & Bag Filter | ✓ | ✓ | | ✓ | |
| 3.6 Modularization Work | | | | ✓ | |
| 4) Economizer / Heater / Cooler / Waste Heat Recovery Unit | | | | | |
| 4.1 Finned Tube | | | ✓ | | |
| 4.2 Bundle Fabrication | | ✓ | ✓ | | |
| 4.3 Header Pipe & Pipe Spools | | ✓ | ✓ | | |
| 4.4 Casing, Duct | ✓ | ✓ | | | |
| 4.5 Module Box Assembly | | | ✓ | ✓ | |
| 5) Pulverizer / Mill | | | | | |
| 5.1 Fabricated Parts | | ✓ | | | |
| 5.2 Full Assembly | | ✓ | | ✓ | |
| 6) Pressure vessels, Drums, Reactor | | | | | |
| 6.1 Fabricated Parts | | ✓ | | | |
| 6.2 Assembly & Modularization | | | | ✓ | |
| 7) Material Handling System | | | | | |
| 7.1 Structure for Conveyor | ✓ | ✓ | | | |
| 7.2 Stacker & Reclaimer | ✓ | ✓ | | | |
| 7.3 Crusher | ✓ | ✓ | | | |
| 7.4 Chute & Duct Work | ✓ | ✓ | | ✓ | |
| 8) Tank & Silo | ✓ | ✓ | | ✓ | |
| 9) Pipe Spool Fabrication | ✓ | ✓ | | ✓ | |



MATRIX OF PRODUCTS



Note:

- 1) AQCS = Air Quality control system such as FGD, SCR, Bag Filter, ESP.
- 2) VIPCO 1 Workshop capacity is now allocated for pipe spool fabrication and some plate work, platform work.
- 3) VIPCO 4&5 Workshop is dedicated for finned tube and related product which need finned tubes as raw material.
- 4) VIPCO 6 which is right next to port of export is dedicated for over size assembly parts.

Certificate Number 09G030751639

CERTIFICATION

ISO 9001

QUALITY MANAGEMENT SYSTEM

Management System Certification Institute (Thailand)



Certificate of Approval

This is to certify that

VISAVAKIT PATANA CORP., LTD.

Address of premises :

Premises 1 : 42, 52 Moo 7, 346 Road,
Koo-Bang-Luang, Ladlumkaew District,
Pathumthani 12140, Thailand

Premises 2 : 220, 220/1 Moo 3,
Toong Sukhla, Sriracha District,
Chonburi 20230, Thailand

Premises 3 : 599/9 Moo 1,
Nong Kham, Sriracha District,
Chonburi 20110, Thailand

has been assessed and found to be conforming to the requirements of
TIS 9001-2559 (ISO 9001:2015)

for the scope :

Manufacture of fabricated metal products

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 4th July 2021

Valid Until 3rd July 2024

First Issued Date 4th July 2018

Management System Certification Institute (Thailand), Foundation for Industrial Development
105/7-11/19 Thani Sathit Road, Prachinburi Road, Prachinburi, Prachinburi
Tel: (047) 671124-6 (047) 671127

(Mr. Jongrak Rojpalasatean)

President

Management System Certification Institute (Thailand)



TP-005-01 Rev. 1 (2018) U.S.



MASCI



TAS
MS C-1001-010 (2021)-1
040 002

Certificate Number OHSMS21007/175

certification

ISO 45001
OCCUPATIONAL HEALTH AND SAFETY MANAGEMENT SYSTEM



Certificate of Approval

This is to certify that

Visavakit Patana Corp., Ltd.

Address of premises :

Premises 1 : 42, 52 Moo 7, 346 Road,
Koo-Bang-Luang, Ladlumkaew District,
Pathumthani 12140, Thailand

Premises 2 : 220 Moo 3,
Toong Sukhla, Sriracha District,
Chonburi 20230, Thailand

Premises 3 : 599/9 Moo 1,
Nong Kham, Sriracha District,
Chonburi 20110, Thailand

has been assessed and found to be conforming to the requirements of
TIS 45001-2561 (ISO 45001:2018)

for the scope :

Manufacture of fabricated metal products

by
Management System Certification Institute (Thailand),
Foundation for Industrial Development

Date of Issue 22nd January 2021

Valid Until 21st January 2024

First Issued Date

Management System Certification Institute (Thailand), Foundation for Industrial Development

101, 101/1, 101/2, 101/3, 101/4, 101/5, 101/6, 101/7, 101/8, 101/9, 101/10, 101/11, 101/12, 101/13, 101/14, 101/15, 101/16, 101/17, 101/18, 101/19, 101/20, 101/21, 101/22, 101/23, 101/24, 101/25, 101/26, 101/27, 101/28, 101/29, 101/30, 101/31, 101/32, 101/33, 101/34, 101/35, 101/36, 101/37, 101/38, 101/39, 101/40, 101/41, 101/42, 101/43, 101/44, 101/45, 101/46, 101/47, 101/48, 101/49, 101/50, 101/51, 101/52, 101/53, 101/54, 101/55, 101/56, 101/57, 101/58, 101/59, 101/60, 101/61, 101/62, 101/63, 101/64, 101/65, 101/66, 101/67, 101/68, 101/69, 101/70, 101/71, 101/72, 101/73, 101/74, 101/75, 101/76, 101/77, 101/78, 101/79, 101/80, 101/81, 101/82, 101/83, 101/84, 101/85, 101/86, 101/87, 101/88, 101/89, 101/90, 101/91, 101/92, 101/93, 101/94, 101/95, 101/96, 101/97, 101/98, 101/99, 101/100

(Mrs. Punnee Angsusingha)

President

Management System Certification Institute (Thailand)



TP-005-02 Rev. 9 2019/11/13



MASCI



TIS-101-TIS 11021-1
OHSMS 001



CERTIFICATE OF AUTHORIZATION

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COMPANY:

Visavakit Patana Corp., Ltd.
42, 52 Moo 7, Koobangluang
Ladlumkaew District
Pathumtani 12140
Thailand

SCOPE:

**Manufacture and assembly of power boilers at the above location
and field sites controlled by the above location**

AUTHORIZED: **March 16, 2022**

EXPIRES: **March 16, 2025**

CERTIFICATE NUMBER: **34445**

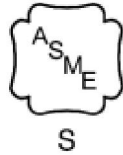


Board Chair, Conformity Assessment



Managing Director, Conformity Assessment





CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
Nongkham Branch
599/9 Moo 1 Nongkham
Sriracha District
Chonburi 20110
Thailand

SCOPE:

**Manufacture and assembly of power boilers at the
above location and field sites controlled by the above location**

AUTHORIZED: **December 31, 2022**

EXPIRES: **December 31, 2025**

CERTIFICATE NUMBER: **46630**

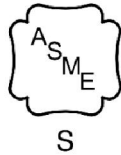


Board Chair, Conformity Assessment



Managing Director, Standards & Engineering Services





CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
Port Branch
Lamchabang Port C0
Toong Sukhala
Sriracha District
Chonburi 20230
Thailand

SCOPE:

**Manufacture and assembly of power boilers at the
above location and field sites controlled by the above location**

AUTHORIZED: **November 23, 2022**

EXPIRES: **November 23, 2025**

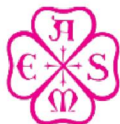
CERTIFICATE NUMBER: **54012**



Board Chair, Conformity Assessment



Managing Director, Standards & Engineering Services





CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
42, 52 Moo 7, Koobangluang
Ladlumkaew District
Pathumtani 12140
Thailand

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **March 16, 2022**

EXPIRES: **March 16, 2025**

CERTIFICATE NUMBER: **34446**



Board Chair, Conformity Assessment

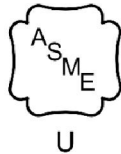


Managing Director, Conformity Assessment





The American Society of Mechanical Engineers



CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

**Visavakit Patana Corp., Ltd.
Nongkham Branch
599/9 Moo 1 Nongkham
Sriracha District
Chonburi 20110
Thailand**

SCOPE:

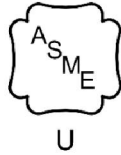
Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **December 31, 2022**
EXPIRES: **December 31, 2025**
CERTIFICATE NUMBER: **46631**

Board Chair, Conformity Assessment

Managing Director, Standards & Engineering Services





CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers (ASME) for the scope of activity shown below in accordance with the applicable rules of the ASME Boiler and Pressure Vessel Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the provisions of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Boiler and Pressure Vessel Code.

COMPANY:

Visavakit Patana Corp., Ltd.
Port Branch
Lamchabang Port C0
Toong Sukhala
Sriracha District
Chonburi 20230
Thailand

SCOPE:

Manufacture of pressure vessels at the above location and field sites controlled by the above location (This authorization does not cover impregnated graphite)

AUTHORIZED: **November 23, 2022**

EXPIRES: **November 23, 2025**

CERTIFICATE NUMBER: **54013**

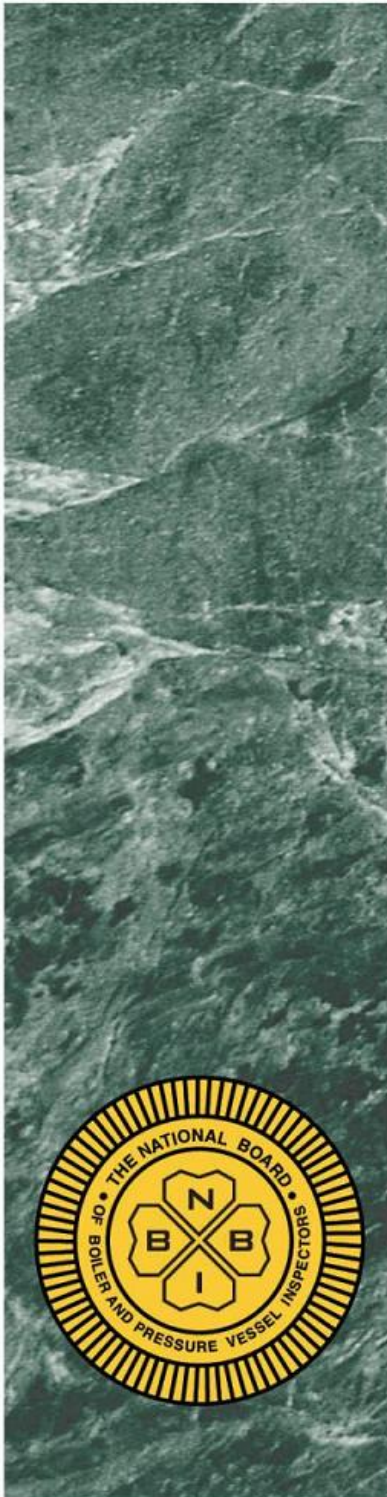


Board Chair, Conformity Assessment



Managing Director, Standards & Engineering Services





**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

Certificate of Authorization



This is to certify that

**Visavakit Patana Corp., Ltd.
42, 52 Moo 7, Koobangluang
Ladlumkaew District
Pathumtani 12140
Thailand**

Acceptable Abbreviation: VIPCO

is authorized to use the R Symbol in accordance with the provisions of the National Board Inspection Code and NB-415, Accreditation of "R" Repair Organizations.

All activities within the scope of this Authorization shall be controlled by the above location.

The scope of this Authorization is limited to:

Metallic
Repairs and Alterations
At
Shop and Field Locations

Certification Number: 6464

Issue Date: March 10, 2022

Expiration Date: March 16, 2025

Executive Director

**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization
to Register***



This is to certify that

**Visavakit Pataua Corp., Ltd.
42, 52 Moo 7, Koobaugluaug
Ladlumkaew District
Pathumtaui 12140
Thailand**

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

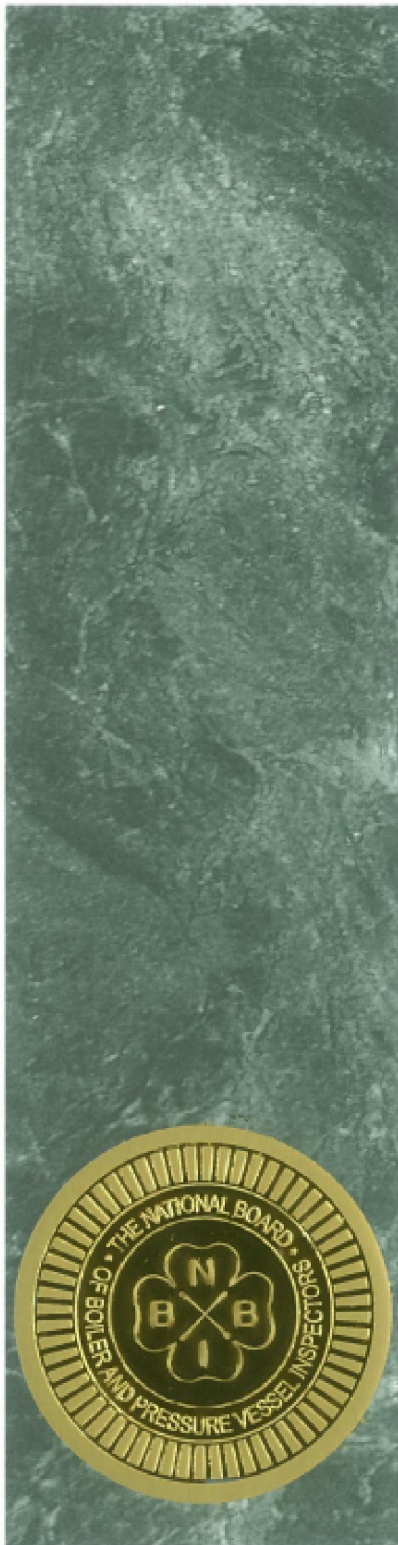
ASME Designator(s): U, S

Issue Date: February 23, 2016

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*

Executive Director





**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization
to Register***



This is to certify that

**Visavakit Patana Corp., Ltd.
Nongkham Branch
599/9 Moo 1 Nongkham
Sriracha District
Chonburi 20110
Thailand**

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

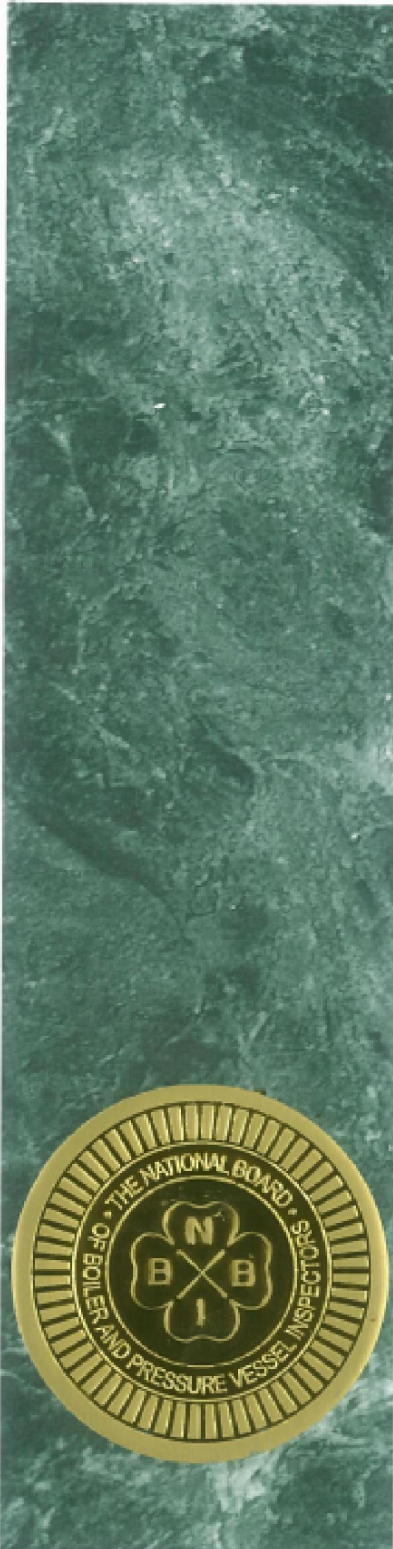
ASME Designator(s): S, U

Issue Date: December 31, 2016

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*



Executive Director



**THE NATIONAL BOARD
OF
BOILER & PRESSURE VESSEL INSPECTORS**

***Certificate of Authorization
to Register***



This is to certify that

**Visavakit Patana Corp., Ltd.
Port Branch
Lamchabang Port C0
Toong Sukhala
Sriracha District
Chonburi 20230
Thailand**

*is authorized to apply the "NB" mark and register boilers,
pressure vessels or other pressure retaining items with the
National Board.*

*The scope of Authorization is limited to items manufactured
in accordance with:*

ASME Designator(s): S, U

Issue Date: January 5, 2017

*This Certificate of Authorization to Register will remain in
effect as long as the manufacturing organization holds a
valid Certificate of Authorization issued by the American
Society of Mechanical Engineers.*

Executive Director



CERTIFICATE

Conformity of the Factory Production Control
0045-CPR-1090-1.00397.TÜVNORD.2014.005

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 following construction product:

| | |
|--|--|
| Construction product | Structural components and kits for steel structures to EXC2 according to EN 1090-2 |
| Intended use | for load-bearing structures in all types of buildings |
| CE - marking method | ZA.3.2 and ZA.3.4 acc. to EN 1090-1:2009+A1:2011 produced by or for |
| Manufacturer | Visavakit Patana Corp., Ltd. 215/148-149 Pracharad 1 Rd. 10800 Bangkok, Bangsue THAILAND |
| Manufacturing plant <small>Production facility of the manufacturer</small> | Visavakit Patana Corp., Ltd. 42, 52 Moo 7 12140 Pathumtani, Ladlumkaew, Koo-Bang-Luang THAILAND |
| Confirmation | This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the harmonised standard EN 1090-1:2009+A1:2011 under system 2+ are applied, and that the factory production control fulfills all the prescribed requirements stated therein. |
| Date of first issue | 03.06.2014 |
| Validity end | 12.05.2023 |
| Period of validity | This certificate will remain valid as long as the test methods and/or the 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. |
| Remarks | see reverse |
| Place and date of issue | Hamburg, 27.10.2020 Phanchart 8118664268 3722 |





CERTIFICATE

TÜV NORD Systems GmbH & Co. KG

certifies that the company

Visavakit Patana Corp., Ltd.
215/148-149 Pracharad 1 Rd.
10800 Bangkok, Bangsue / Thailand
Manufacturing site see back page

has been verified and recognized
as welding workshop based on the requirements of the standard

DIN EN ISO 3834-2

Comprehensive quality requirements

Certificate-No.: 07/204/1326/HS/3722/20

The range of validity and details of the inspection can be seen
on the back page and in our report

No.: 8118664268

The company is using a quality assurance system,
technical equipment, qualified personnel and procedures for joining processes.

This certificate is valid until

May 2023

Hamburg, 27.10.2020

To verify the validity of the digital signature of the TÜV NORD Systems
employee, the installation of the TÜV NORD GROUP root certificate is
required: <https://www.tuev-nord.de/en/customer-login/digital-signature/>



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Kaschner Morten
Datum: 2020.10.27
08:30:21 +01'00'

Kaschner

Certification body
of TÜV NORD Systems GmbH & Co. KG
Accredited Body

TÜV NORD Systems GmbH & Co. KG • Technikzentrum • Certification Body
Große Bahnstraße 31 • 22525 Hamburg
Telefon (040) 8557-2368 • Fax (040) 8557-2710 • E-mail: technikzentrum@tuev-nord.de

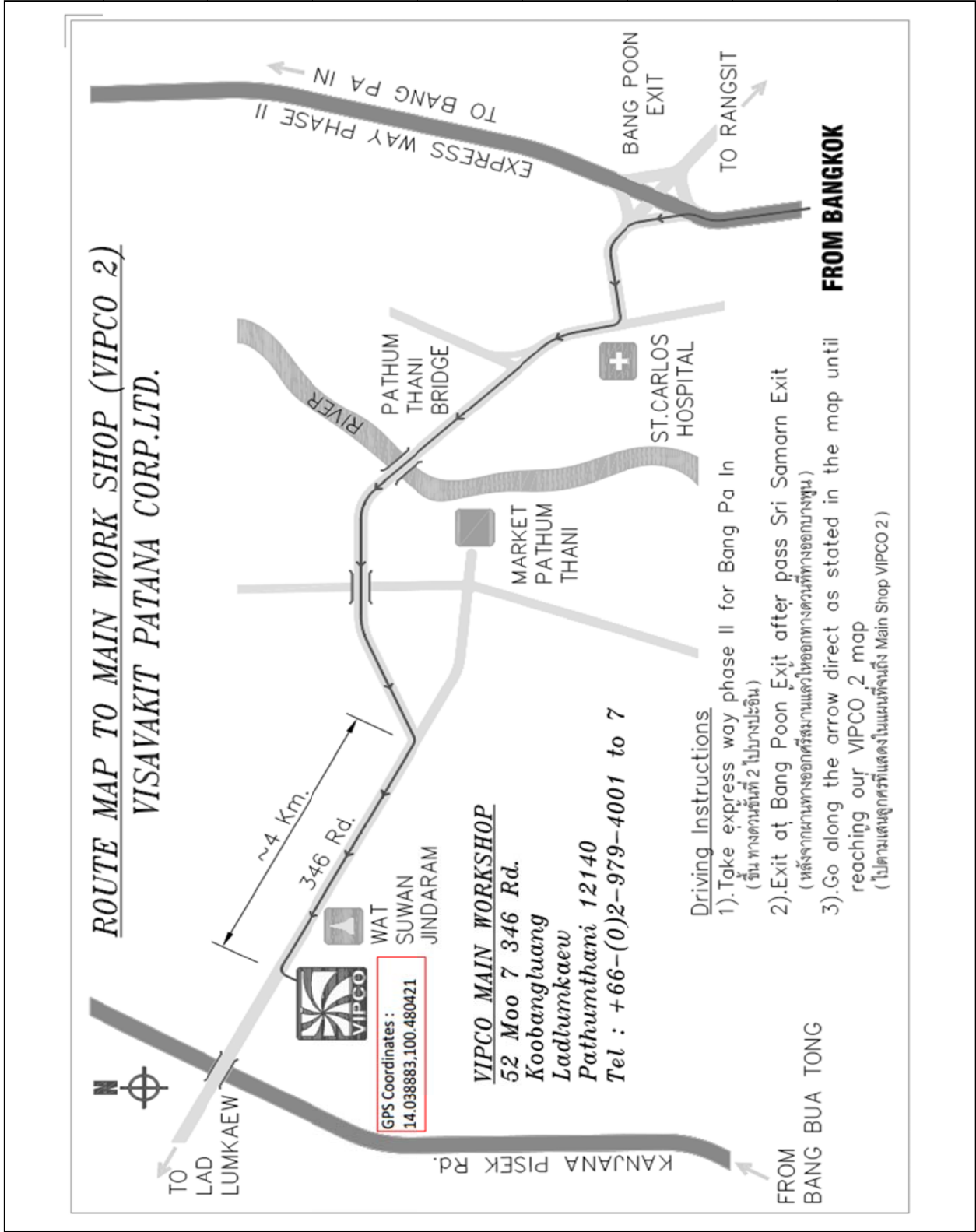
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rev7(2019-07)



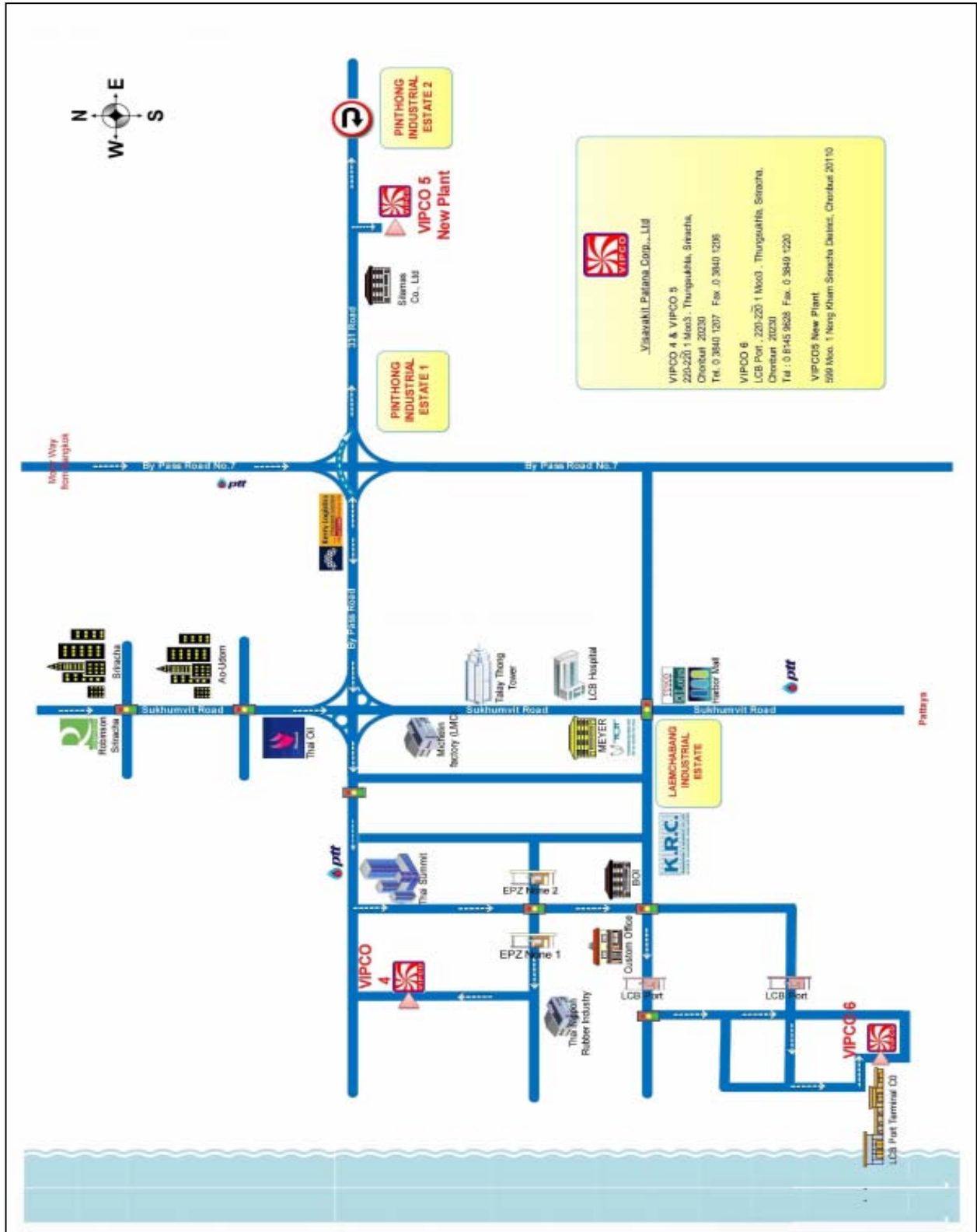


VIPCO PLANT LOCATION





PLANT LAYOUT - PLANT V.4,5,6



Workshop & Facilities — VIPCO 1

- VIPCO 1 Workshop - Pathumtani
 - Total area : 12,000 m² (7.5 Rai)
 - Covered workshop area : 8,000 m²
 - Capacity : 300 ton per month



1/30/2017



Workshop & Facilities — Main Shop (V2)

- Main Workshop - Pathumtani
 - Total area : 133,000 m² (83.125 Rai)
 - Covered workshop area : 80,000 m²
 - Office area : 6,300 m²
 - Capacity : 1,600 ton per month



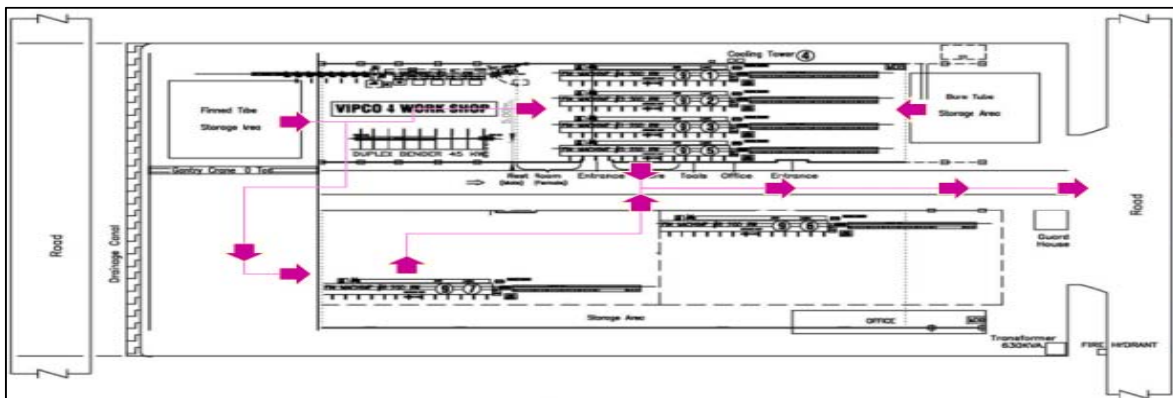
1/30/2017



VIPCO 4 : Fin Shop

(Finning Machine : 9 Nos. (7 Nos. at VIPCO4 and 2 Nos. at VIPCO5)

- Laem Chabang Branch Workshop (2006)
 - Located in Export Promotion Zone (EPZ)
 - Close to Laem Chabang Port
 - Dedicate for Finned Tube Manufacturing
 - Total area : 11,455 m² (79 m. W X 145 m. L)
 - Productivity : 8,000 – 10,000 tubes / month.



VIPCO 6 : LCB Port Facility

Assembly Workshop

VIPCO 6 : Total area 15,000 SqM (10 Rai), Shop size : 8,400 SqM. (20 m x 210 m. x 2 Shops)

VIPCO 6/1 : Total area 15,000 SqM. (10 Rai)

Within 100 m. to Laem Chabang Port (C0 Port)

Dedicate for Assembly and Storage area





Workshop & Facilities





Workshop & Facilities

| Shop Name | Total Area | Covered area under roof | Office area | Infrastr. | Ware house area under roof | Laydown area | Production capacity | Type of work |
|-------------------------------|-------------------------|-------------------------|-------------|-----------|----------------------------|--------------|---|-------------------|
| VIPCO 1 | 12,000 SM | 8,000 SM | 100 SM | 360 SM | 800 SM | 3,540 SM | 300 ton/Mth | Steel Fabrication |
| VIPCO 2 | 133,000 SM | 80,000 SM | 6,300 SM | 3,990 SM | 4,000 SM | 42,710 SM | 1,600 ton/Mth | Steel Fabrication |
| VIPCO 3 | Closed | | | | | | | |
| VIPCO 4 | 11,455 SM | 10,000 SM | 500 SM | 100 SM | 500 SM | 855 SM | 10,000 tube/Mth | Finned tube |
| VIPCO 5 | 50,000 SM | 21,600 SM | 2,500 SM | 1,500 SM | 2,160 SM | 24,400 SM | 1,500 ton/Mth | Module Assembly |
| VIPCO 6 | 30,000 SM | 8,400 SM | 800 SM | 900 SM | 840 SM | 19,900 SM | 1,000 ton/Mth | Module Assembly |
| ^{1/30/2017} Total | 236,455 SM (148 Rai) | 128,000 SM | 10,200 SM | 6,850 SM | 8,300 SM | 91,405 SM | 1,900 ton/Mth (FAB) 2,500 ton/Mth (Assembly) 4,400 ton/Mth (FAB+Assy) | |



PROJECT EXPERIENCE LIST

- **POWER GENERATION**
- **PETROCHEM / OIL and GAS**
- **CEMENT and MINING**
- **ERECTION**
- **FINNED TUBE**

PROJECT EXPERIENCE LIST : POWER GENERATION

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--|---|----------------|
| 08/04/2022 13/02/2023 | Vogt Power Inc. | GLOW II PROJECT HRSG MSG MODULE BOXES | Fab HRSG = 2 Unit (Four (4) MSG modules, 1 W x 2 D x 2 units) local in Thailand | 659 MT |
| 08/04/2022 09/01/2023 | Vogt Power Inc. | SAHA COGEN COMBINED CYCLE HRSG MSG MODULE BOXES | Fab HRSG = 1 Unit (Three (3) MSG modules, 1 W x 3 D) local in Thailand | 395 MT |
| 05/03/2022 04/11/2022 | Vogt Power Inc. | V17538 BPAT3 SAFI Pipe | Fab Spool Pipe 2 unit total 4596 DB for local in Thailand | 44 MT |
| 05/03/2022 04/09/2022 | Vogt Power Inc. | V17436 BPAT2 Project SAFI Pipe | Fab Spool Pipe 2 unit total 4596 DB for local in Thailand | 44 MT |
| 02/03/2022 23/09/2022 | Vogt Power Inc. | V17545 Batangas Blowdown Tank | Fab Blowdown Tank Total 3 EA export to Philippines | 19 MT |
| 01/02/2022 31/12/2022 | JGC | IRAQ BASRAH REFINERY UPGRADING FCC Duct, Stack and Lined Piping | Fab FCC Duct, Stack and Lined Piping export to Iraq | 349 MT |
| 08/11/2021 15/08/2022 | Vogt Power Inc. | BPAT3(V17538) MSG Module Box | Fab MSG Module Box total 2 units (3boxes/unit) for Local in Thailand | 931 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 08/11/2021 01/08/2022 | Vogt Power Inc. | BPAT2(V17536) MSG Module Box | Fab MSG Module Box total 2 units (3boxes/unit) for Local in Thailand | 931 MT |
| 31/08/2021 25/03/2022 | Jord | Thai Oil (Thunder) Project Structure Steel | Fab Structure Steel 2 units for Local in Thailand | 178 MT |
| 07/08/2021 09/09/2022 | Nooter | 214100 North Field Expansion Project HRSG Module, HP Drum, Duct Work | Fab HRSG Module, HP Drum, Duct Work 5 units export to Qatar | 984 MT |
| 20/07/2021 03/03/2022 | Jord | Thai Oil (Thunder) Project Stack | Fab Stack 2 units for local in Thailand | 227 MT |
| 28/06/2021 18/03/2022 | Jord | C7709 TOP SPP Thunder Project NPP | Fab NPP 2 Units for local in Thailand | 542 MT |
| 28/06/2021 18/03/2021 | Jord | C7709 TOP SPP Thunder Project HRSG Module | Fab HRSG Module 2 Units for local in Thailand | 615 MT |
| 10/04/2021 31/07/2021 | Vogt Power Inc. | V17541 JEL Glow Project SAFI Pipe | Fab Pipe Spool 4 units 9,948 DB For Local in Thailand | 55 MT |
| 08/01/2021 22/04/2021 | Vogt Power Inc. | V17532 Nexif Energy Rayong SAFI Pipe | Fab Pipe Spool 1 unit 3,506 DB local in Thailand | 18 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 06/11/2020 30/11/2021 | Vogt Power Inc. | V17537 - BPAMR Project MSG Module Boxes | Fab MSG Module Boxes 4 units (3Boxes/unit) for local in Thailand | 1,861 MT |
| 16/10/2020 01/06/2022 | Nooter | GPD Pluekdang Phase II Pipe Fab | Fab Pipe Spool 4 Units 37,826 DB for Local in Thailand | 999 MT |
| 16/09/2020 01/08/2021 | Vogt Power Inc. | V17541 Glow Project MSG Module Boxes | Fab Module Boxes 4 units (2 boxes / unit) for local in thailand | 1,296 MT |
| 15/09/2020 15/03/2021 | Nooter | Agios Nikolaos CCGT II Project LB piping Spool Fabrication | Fab Pipe Spool 1 unit 8492 DB export to Greece | 266 MT |
| 11/09/2020 24/09/2021 | Vogt Power Inc. | V17535 - ABP2R Project MSG Module Boxes | Fab MSG Module Boxes 2 units (3Boxes/Unit) for local in Thailand | 931 MT |
| 11/09/2020 19/07/2021 | Vogt Power Inc. | V17535 - ABP1R Project MSG Module Boxes | Fab MSG Module Boxes 2 units (3Boxes/Unit) for local in Thailand | 931 MT |
| 31/08/2020 30/04/2022 | Nooter | Plukdaeng Power Plant (GPD) Coil Bundle | Fab Coil Bundle 4 units for Local in Thailand | 13,050 MT |
| 26/08/2020 18/03/2022 | Nooter | Plukdaeng Power Plant (GPD) Secondary Steel / Platform | Fab Secondary Steel / Platform 4 units for Local in Thailand | 182 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 24/08/2020 18/03/2022 | Nooter | Plukdaeng Power Plant (GPD) Exhaust Stack | Fab Exhaust Stack 4 units for Local in Thailand | 624 MT |
| 18/08/2020 18/03/2022 | Nooter | Plukdaeng Power Plant (GPD) Casing & Duct | Fab Casing & Duct GRSC 4 Units for Local in Thailand | 3,279 MT |
| 09/07/2020 28/05/2021 | Vogt Power Inc. | Amata B Grimm Project MSG Module Boxes | Fab MSG Module Boxes 14 Units (3 Boxes/Unit) for Local in Thailand | 6,514 MT |
| 24/06/2020 11/03/2021 | Vogt Power Inc. | V17532 Nexif Project MSG Module Boxes | Fab MSG Module Boxes 1 unit (3 Boxes) Local in Thailand | 309 MT |
| 05/06/2020 27/07/2022 | Nooter | Golden Pass Project Exhaust Stack | Fab Exhaust Stack 6units export to USA | 1,061 MT |
| 05/06/2020 03/01/2022 | Nooter | Golden Pass Project Module Bundle | Fab Module Boxes 6units export to USA | 2,624 MT |
| 25/04/2020 17/09/2020 | Vogt Power Inc. | V17526 - PTTGC Safi Pipe | Fab Pipe Spool 4,472 DB for local in Thailand | 27 MT |
| 17/04/2020 30/09/2020 | Nooter | Morrow Project 750K Single Crane Lift Device SCLD3 | Supply Material Fab and Load Testing of 750K Containerized Single Crane Lift Device 1 unit export to USA | 98 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 03/04/2020 31/12/2020 | Nooter | Agios Nikolaos - CCGT II Power Plant Project Module Bundle | Supply 15 Coil Bundles (Shop Modular) for HRSG 1 unit export to Greece | 3,690 MT |
| 19/03/2020 18/11/2020 | Nooter | GSRC Pipe Fab for Unit3 and 4 | Fab Pipe Spool 2 units 19,708 DB for local in Thailand | 500 MT |
| 20/12/2019 29/05/2020 | Vogt Power Inc. | V17524 - DUQM Pipe Rack & Misc. | Fab HRSG - Drum Platform Canopy Steel Frame 5 Units export to Oman | 89 MT |
| 19/12/2019 03/06/2020 | Vogt Power Inc. | V17524 - DUQM Safi Pipe | Fab Pipe Spool 5 units 20,866 DB export to Oman | 102 MT |
| 15/11/2019 05/11/2020 | Nooter | Dania Beach Energy Center (DBEC) Project Secondary | Fab Secondary 2 Units Platform Handrail Ladder Etc, export to USA | 347 MT |
| 15/11/2019 14/07/2020 | Nooter | Plant Morrow Project Casing / Duct | Fab NPP HRSG 1 Unit Export to USA | 711 MT |
| 29/10/2019 03/04/2020 | Vogt Power Inc. | 17524 DUQM Integrqated Power & WaterPlant Project Blowdown Tank | Fab Blowdown Tank 5 ea export to Oman | 12 MT |
| 11/07/2019 01/11/2019 | Vogt Power Inc. | V17522 SAFI Pipe Spools | Fab Pipe spool 2 units 7,688 DB and support export to Canada | 30 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|---|---|-----------------------|
| 21/06/2019 | Vogt Power Inc. | 17524 DUQM Integrqated Power & WaterPlant Project | Fab - Base Plates and Bearing Plate for 5 units Fab - Stack Templates 11 sets for 5 units export to Oman | 10 MT |
| 23/08/2019 | | Base Bearing Plate and Stack Template | | |
| 07/06/2019 | Nooter | 180900-001 Sriracha | Fab Lift device for Module at site for local in Thailand | 85 MT |
| 08/10/2019 | | Lift Device | | |
| 18/04/2019 | Nooter | 180800 Sriracha | Fab SCR Frame / SCR Casing/Duct 4 unit for local in Thailand | 83 MT |
| 01/07/2020 | | SCR Frame | | |
| 18/04/2019 | Nooter | 180800 Sriracha | Fab SCR Frame / SCR Casing/Duct 4 unit for local in Thailand | 83 MT |
| 01/07/2020 | | SCR Frame | | |
| 21/12/2018 | Nooter/Eriksen | 180800-LAD, Sriracha Project | Fab Secondary Steel (Stair Tower, Platform, Ladder, Drum Supports, Silencer Support, Miscellaneous) local in Thailand | 1,394 MT |
| 01/05/2020 | | Secondary | | |
| 21/12/2018 | Nooter/Eriksen | 180826-STK, Sriracha Project | Fab Exhaust Stack (Stack, Anchor Bolts for Stack) local in Thailand | 633 MT |
| 01/05/2020 | | Exhaust Stack | | |
| 21/12/2018 | Nooter/Eriksen | 180800-CB ,GSRC Sriracha Project | Fab Coil Bundle HRSG 4 Units local in Thailand | 13,050 MT |
| 15/05/2020 | | Coikl Bundle | | |
| 21/12/2018 | Nooter/Eriksen | 180800-CD ,Sriracha Project | Fab Casing / Ducting (Inlet duct, SCR, Casing, Base Plate, Anchor Bolt) local in thailand | 3,453 MT |
| 01/05/2020 | | Casing & Duct | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 13/12/2018 26/09/2019 | Vogt Power Inc. | V17522 CUB-PDH Project (Heartland) NPP | Fab NPP HRSG 2 Units for export to Canada | 679 MT |
| 13/12/2018 23/08/2019 | Vogt Power Inc. | V17522 CUB-PDH Project MSG Module Boxes | Fab. HRSG - MSG Module Boxes 2 Units (6 Boxes / 2Units) for export to Canada | 633 MT |
| 13/12/2018 01/07/2019 | Vogt Power Inc. | V17520 Lansing BWL NGCCP MSG Module Boxes | Fab. HRSG - MSG Module Boxes 2 Units (8 Boxes / 2Units) for export to USA | 847 MT |
| 13/12/2018 31/08/2019 | Vogt Power Inc. | V17520 Lansing BWL NGCCP NPP | Fab NPP HRSG 2 Units export to USA | 594 MT |
| 01/12/2018 31/05/2019 | CTCI | Central UtilityPlant Project4 (CUP-4) Phase1 Module Boxes | Erection of HRSG and Gas Turbine (SIEMENS SGT-800) at Rayong Thailand | 1,000 MT |
| 30/07/2018 15/02/2019 | CECO (Aarding) | A042 Bangkapong GT A042 Diffuser Duct | Fab. GT A042 Diffuser Duct 2 units for local in Thailand. | 70 MT |
| 30/05/2018 30/01/2019 | Vogt Power Inc. | 17517, 17518, 17519 MSU Project - Argentina. MSG Module Boxes | Fab. MSG Boxes 12 units (24 boxes) for export to Argentina | 468 MT |
| 03/05/2018 14/12/2018 | AAF | Static Filter Bangpakong Power Plant | Fab. Anti-Insect Assy. Total weight 46 tons/units for 2 units local in Thailand. | 92 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|---|-----------------------|
| 12/03/2018 15/12/2018 | Vogt Power Inc. | 17513 Siemens Ezeiza Project MSG Module Boxes | Fab. MSG Boxes 4 units (8 boxes) for export to Argentina | 214 MT |
| 12/03/2018 15/12/2018 | Vogt Power Inc. | 17512 Siemens Rio Cuarto Project MSG Module Boxes | Fab. MSG Boxes 3 units (6 boxes) for export to Argentina | 161 MT |
| 11/11/2017 22/07/2018 | Siemens Limited | South Bangkok Lifting Beam , Baffle & Sealing plate , BDT | Fab - Lifting Beam 8 Sets , Baffle & Sealing plate 2 Units, Blowdown Tank 2 Units for local in Thailand | 140 MT |
| 01/06/2017 04/01/2018 | Braden | South Bangkok / Braden Diffuser | Fab. Diffuser type SCT5-8000H 2 ea weight 130 Tons for local in Thailand. | 130 MT |
| 27/03/2017 29/12/2017 | Vogt Power Inc. | Jamaica Project V17057 Module Box | Supply MSG Box for HRSG 3 Units export to Jamaica | 1,729 MT |
| 25/11/2016 09/06/2017 | Nooter | Riverside Project | Fab/Supply HRSG total 2 units - 24 Bundle for export to USA | 4,101 MT |
| 18/11/2016 14/07/2017 | Vogt Power Inc. | V17491 - ABPR V SAFI Piping | Fab Pipe Spool & Pipe Support total 2 units 3968 DB for local in Thailand | 21 MT |
| 26/10/2016 31/08/2018 | MHPS | Indonesia Central Java Project Buner Wind Box & AA Port | Supply, Fab, Assy Buner Wind Box & AA Port 2 units for export to Indonesia | 742 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--|---|-----------------------|
| 24/10/2016 16/11/2018 | Vogt Power Inc. | Ashevill Combined Cycle Project V17501 / NPP | Supply NPP 2 Units Inlet Ducts, attic & Basement, CO duct, SCR duct, Outlet duct, Spool duct, platforms & walkwey,etc export to USA | 965 MT |
| 15/10/2016 15/08/2017 | Babcock Power Inc. | Amata B. Grimm Power (Rayong) V17491 ABPR V / MSG | Supply MSG Boxes for HRSG 2 Units Amata B. Grimm Power for local in Thailand | 940 MT |
| 30/09/2016 01/09/2017 | Babcock Power Inc. Toshiba Plant Systems & Services Corporation (TPSC) | Amata B. Grimm Power (Rayong) V17491 ABPR V / NPP | Supply NPP for HRSG 2 Units Amata B Grimm Power for local in Thailand | 345 MT |
| 11/08/2016 30/10/2016 | Process Technology and Services Co., Ltd | IRPC PUBLIC 9452-09 41B & 9452-05/06 41B | Intermediate tube supports 6 ea. / Fab Header Box 90 Deg.,Header Box 270 Deg.,Access door and Coil Fabrication items for local in | 0 MT |
| 01/08/2016 03/05/2017 | GE | Bridgeport Habor Unit 96 | Fab & Mod Module fully C-Frame for HRSG 1 unit x 10 boxes export to USA | 2,484 MT |
| 01/08/2016 22/01/2017 | Babcock Power Inc. | SAFI Piping V17489 - ABPR III | Fab Pipe Spool , Pipe Support 2 units for local in Thailand | 21 MT |
| 01/08/2016 01/05/2017 | Babcock Power Inc. | V17490 - ABPR IV SAFI Pipe | Fab Pipe Spool , Pipe Support 2 units for local in Thailand | 21 MT |
| 23/06/2016 01/04/2017 | Vogt Power Inc. IHI Corporation | Maputo Project V17502 | Supply MSG Module Box for HRSG 2 Units 3 Box / 1 unit total 6 Box export to Mozambique | 612 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--|--|-----------------------|
| 14/06/2016 24/02/2017 | Babcock & Wilcox | 354-0160 Project : 321K Masiloc, ZAMBALES, PHILIPPINES | Fab Coal Silo Lower Hoppers 5 units export to Philipinnes | 1 MT |
| 15/05/2016 01/05/2017 | Babcock Power Inc. | Amata B. Grimm Power (Rayong) V17489 ABPR IV / NPP | Supply NPP for HRSG 2 Units Inlet Ducts, Bypass Stack, Spool Ducts, Platform, Outlet Ducts, Stack ,Base plates,Outlet Stack for local in | 345 MT |
| 12/05/2016 01/02/2017 | Babcock Power Inc. | Amata B. Grimm Power (Rayong) V17489 ABPR III / MSG | Supply MSG Boxes for HRSG 2 Units Supply Finned Tubes, Fab. Harp, Box Casing and Box MSG x 3 Boxes x 2 = 6 Boxes local in Thailand | 940 MT |
| 07/04/2016 29/07/2016 | Babcock & Wilcox | DUYEN HAI 3 PROJECT Flow Straightener | Fabrication - Flow straightener 42 Sets Supply - Aluminum Gratings export to Vietnam | 62 MT |
| 29/01/2016 20/11/2016 | Babcock Power(Thailand) Ltd Toshiba Plant System & Service | Amata B. Grimm Power (Rayong) V17489 ABPR III / MSG | Supply MSG Bos for HRSG 2 units for local in Thailand | 940 MT |
| 29/01/2016 02/01/2017 | Babcock Power(Thailand) Ltd | Amata B. Grimm Power (Rayong) V17489 ABPR III / NPP | Supply NPP foe HRSG for local in Thailand | 345 MT |
| 22/01/2016 31/10/2016 | Alstom Power | Haveli, HRSG Haveli Bahadur Shah power plant in Pakistan | Fab & Modularize OCC Module for HRSG 2 units x 18 boxes = 36 boxes export to Pakistan | 6,500 MT |
| 28/12/2015 24/02/2017 | Nooter/Eriksen | Gulf SPP3 A Project | Fab Spool Pipe 18 units for local in Thailand | 520 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 02/12/2015 09/07/2016 | Alstom Technical Service | FGD Tank | Design Supply Tank 7 ea for local in Thailand | 310 MT |
| 21/10/2015 30/06/2016 | Vogt Power Inc. | Genesis Keys Project V-17496 NPP | Supply NPP for HRSG 2 units export to USA | 975 MT |
| 20/10/2015 20/11/2016 | Vogt Power Inc. | King Mountain Project V17495, NPP | Supply NPP for HRSG 1 unit export to USA | 456 MT |
| 15/09/2015 01/06/2016 | Babcock & Wilcox | Duyen Hai 3 Project 307K B&W98 Pulverizer Housings | Fab Pulvarizer 6 units export to vietnam | 400 MT |
| 02/04/2015 18/09/2015 | Nooter/Eriksen | Chilca Plus 142000 EPC | Fab Supply Bundle Box for HRSG 1 unit Supply Finned tube export to Peru | 526 MT |
| 30/03/2015 16/09/2015 | Babcock Power Inc. | Safi Piping V17488 Amata Bowin | Fab Safi Piping for local in Thailand | 29 MT |
| 11/03/2015 01/11/2015 | Babcock Power Inc. | KCE Project - V17493 NPP | Fab Supply for HRSG 2 Units for local in Thailand | 245 MT |
| 11/03/2015 01/11/2015 | Babcock Power Inc. | V17493 KCE Project MSG Module Box | Fab HRSG 2 Units Supply Finned tube for local in thailand | 630 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 18/12/2014 | Babcock Power Inc. | V17484 SPR | Fab SAFI Pipe 2 Units for local inThailand | 23 MT |
| 30/04/2015 | | SAFI Pipe SCR | | |
| 18/12/2014 | Babcock Power Inc. | V17483 NNEG | Fab SAFI Pipe 2 Units for local inThailand | 22 MT |
| 15/06/2015 | | SAFI Pipe | | |
| 09/12/2014 | Babcock Power Inc. | Duke Lee Project 17487 | Fab & Modularize ESC Box for HRSG 2 Units x 10 Boxes = 20 Boxes Export to USA | 3,444 MT |
| 01/10/2015 | | ESC Box | | |
| 05/12/2014 | Babcock Power Inc. | Amata Bowin-14788 | Supply NPP for HRSG 2 Units for local in Chonburi district,Thailand | 345 MT |
| 21/09/2015 | | NPP | | |
| 04/12/2014 | Babcock Power Inc. | Amata Bowin-17488 | Supply MSG Box for HRSG 2 Units for local in Chonburi district,Thailand | 940 MT |
| 31/08/2015 | | MSG Box | | |
| 20/11/2014 | Midrex | LGOK III Project | Fab Dust Collection Stack 2 Units / Slurry Tank 2 Units / Scrubber 2 Units Export to Russia | 68 MT |
| 15/07/2015 | | 3853 | | |
| 30/07/2014 | Vogt Power Inc. | 17479 Trans Canada | Supply Finned tube, Fab Harp, Casing, MA Pipe and Modularize ESC boxes (3 wide HRSG) 12 boxes x 2 units for export to Canada | 2,102 MT |
| 01/07/2015 | | ECS Boxes | | |
| 06/06/2014 | Babcock Power Inc. | V-17483 NNEG Project | Supply NPP for HRSG 2 Units Duct, Plateform, Main Stack, Pipe rack, Stack template, Bass plate for local Thailand | 261 MT |
| 07/04/2015 | | NNEG HRSG | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 06/06/2014 21/02/2015 | Babcock Power Inc. | V17484 SPR Project NPP Project | Supply NPP for HRSG 2 Units Duct, Plateform, Main Stack, Pipe rack, Stack template, Bass plate for local Thailand | 274 MT |
| 06/06/2014 30/01/2015 | Babcock Power Inc. | V17484 SPR Project MSG Box | Supply Finned tube, Fab Harp, Box Casing and Modul Box MSG x 2 boxes x 2 = 4 boxes for local Thailand | 830 MT |
| 06/06/2014 07/04/2015 | Babcock Power Inc. | V-17483 NNEG Project MSG Box | Supply Finned Tube + Fab Harp, Box Casing and Modul Box MSGx 2 boxes x 2 = 4 boxes for local Thailand | 830 MT |
| 05/06/2014 15/07/2015 | Babcock Power Inc. | V17482 - IRPC SAFI PIPE | Fabricate pipe spool 4 units for local Thailand | 88 MT |
| 28/05/2014 13/03/2015 | BHI Co.,Ltd (South Korea) | Khanom Project | Fabrication Casing, Inlet Duct, Stack, Aux Stack(1 Unit), Plateform, Pipe Rack for local Nakhon Si Thammarat , Thailand | 2,227 MT |
| 01/04/2014 01/10/2014 | Babcock Power Inc. | V-17480-Amata 4 SAFI PIPE | Fabricate pipe spool 2 units for local AMATA- Chonburi | 29 MT |
| 01/04/2014 01/12/2014 | Babcock Power Inc. | V-17480-Amata 5 SAFI PIPE | Fabricate pipe spool 2 units for local AMATA- Chonburi | 29 MT |
| 13/01/2014 10/05/2014 | RCR Energy | 2409 Townsville Power Station Evaporator Element Replacement | Fabricate harps 6 harps + spool pipe 18 spool (684DB,P11) + shipping frame for export to Australia | 119 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 02/01/2014 | Vogt Power Inc. | Amata 5 - 17481 | Supply finned tube and fabricate harp , box casing and modularize MSG x 6 units , for local in Amata Nakorn | 940 MT |
| 01/10/2014 | Toshiba | MSG Box | | |
| 19/12/2013 | Vogt Power Inc. | Amata 4 - 17480 | Fabricate duct ,platform ,main stack ,bypass stack ,stack template for HRSG x 2 units , for local in Amata Nakorn | 345 MT |
| 01/08/2014 | Toshiba | HRSG Non Pressure Parts | | |
| 31/10/2013 | Babcock Power Inc. | V17476-Bangkadi | Fabricate pipe spool 4 units for local Bangkadi | 40 MT |
| 03/03/2014 | | SAFI PIPE | | |
| 28/10/2013 | Vogt Power Inc. | IRPC V17482 | Fabricate duct , plateform&walkways , outlet duct , stack & breeching , pipe rack , stack template and base plate | 725 MT |
| 01/07/2015 | TOYO Thai | NPP | | |
| 28/10/2013 | Vogt Power Inc. | IRPC V17482 | Supply finned tube and fabricate harp , box casing and modularize MSG x 2 boxes x 4 = 8 boxes | 1,550 MT |
| 15/07/2015 | TOYO Thai | MSG Box | | |
| 28/10/2013 | Vogt Power Inc. | Amata 5 - 17481 | Fabricate duct , plate form , main stack , bypass stack , stack template (option : base plate, anchor bolts, davit arms) , for local in Amata Nakorn | 690 MT |
| 01/10/2014 | Toshiba | NPP | | |
| 28/10/2013 | Vogt Power Inc. | Amata 4 - 17480 | Supply finned tubes , fabricate and modularize 6 MSG boxes for HRSG x 2 units , for local SPP project | 940 MT |
| 01/08/2014 | Toshiba | MSG Box | | |
| 10/08/2013 | Vogt Power Inc. | Ratchaburi 17472 | Fab shop assembly interconnected pipe for HRSG x 4 units for SPP project , Thailand | 42 MT |
| 07/10/2013 | IHI | SAFI Pipe | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 07/06/2013 24/02/2014 | Babcock Power Inc. | V17476 Bangkadi NPP | Fabricate inlet duct, outlet duct (stack breeching), outlet stack, plate form, stack template for HRSG 4 units for local to Bangkadi | 510 MT |
| 07/06/2013 04/02/2014 | Babcock Power Inc. | V17476 Bangkadi MSG Box | Supply finned tubes, fabricate harp , box casing and modularize MSG x 2 x 4 = 8 for local to Bangkadi | 1,293 MT |
| 01/06/2013 17/03/2014 | Vogt Power Inc. Siemens | Liberty 17475 Smart Box | Supply finned tubes , Fabricate Harp + Box Casing + Modularize Smart Box 30 box for HRSG 3 wide x 5 deep x 2 units export to Pennsylvavaia , | 4,212 MT |
| 27/03/2013 20/09/2013 | Babcock & Wilcox | Themo Tasajero II Project Coal Silo Fabrication | Fabricate coal silo 4 sets (ss400) Dia 5.7 x H 16.3 m. for export to Columbia | 95 MT |
| 20/02/2013 15/11/2013 | Babcock & Wilcox | Termo Tasajero II Flue & Gas Duct | Supply Material & Fabricate flue , gas duct for Boiler for export to Columbia | 273 MT |
| 15/02/2013 28/11/2014 | Howden UK Limited | Tailin Air Preheater Lot#2 | Fabricate Air heater 2 set scope includee trial fit roter | 553 MT |
| 15/02/2013 29/11/2013 | Howden UK Limited | Tailin Air Preheater Lot#1 | Fabricate Air heater 2 set scope includee trial fit roter | 553 MT |
| 05/07/2012 08/02/2013 | Vogt Power Inc. | Ninemile 17465 ECS Boxes | Supply finned tubes and fabricate & Modularize ECS module boxes - 20 boxes for HRSG x 2 units , for export to USA | 2,875 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 01/04/2012 31/08/2012 | Howden UK Ltd. | Dollet Hills ANT Axial Fan | Fabricate ANT Axial Fan3700/2000 B x 2 units for export to USA | 90 MT |
| 15/03/2012 08/01/2013 | RCR Energy Pty Ltd. | Yarnima Power Station O-Frame HRSG x 3 units | Fabricate and modularize 9 O - Frame type module boxes for HRSG x 3 units fully comply with AS standard for export to Western Australia | 966 MT |
| 01/02/2012 15/09/2012 | Vogt Power Inc. Siemens Energy Inc. | Lake Side 2 Power Plant 17463 Smart Boxes HRSG | Supply finned tubes and fabricate & modularize Smart Boxes for HRSG x 2 units , export to USA | 3,661 MT |
| 02/01/2012 15/02/2013 | Mitsubishi Heavy Industries (Nagasaki) | TEPCO Point C Project Vertical HRSG x 3 units | Fabricate hot beam ,casing , buckstay and duct work for vertical HRSG x 3 units for export to TEPCO's plant , Japan | 2,837 MT |
| 01/12/2011 01/06/2012 | Vogt Power Inc. Toshiba | Amata City 2 - 17460 MSG Boxes | Supply finned tubes , fabricate and modularize 6 MSG boxes for HRSG x 2 units , for local SPP project | 940 MT |
| 01/12/2011 01/06/2012 | Vogt Power Inc. Toshiba | Amata City 1 - 17461 MSG boxes | Supply finned tubes , fabricate and modularize 6 MSG boxes for HRSG x 2 units , for local SPP project | 940 MT |
| 01/11/2011 07/05/2012 | Vogt Power Inc. Thai Shinryo | Bang Pa In 17457 MSG Boxes | Supply finned tubes and fabricate & modularize 6 module boxes for HRSG x 2 units , for local SPP project | 603 MT |
| 01/08/2011 01/04/2012 | Vogt Power Inc. Siemens Energy Inc. | Island Power 17454 Loose Harps | Supply finned tubes and fabricate 252 harps and MA pipe for HRSG x 2 units , export to Singapore | 5,243 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 01/06/2011 01/02/2012 | Vogt Power Inc. | Los Esteros 17456 MSG Boxes | Supply finned tubes and fabricate & modularize 20 MSG boxes for HRSG x 4 units , for export to USA | 1,655 MT |
| 15/01/2011 15/07/2011 | Vogt Power Inc. Toshiba | Amata Nakorn 17452 MSG Boxes | Supply finned tubes , fabricate and modularize 6 MSG boxes for HRSG x 2 units , for local SPP project | 940 MT |
| 04/06/2010 15/02/2011 | Vogt Power Inc. Siemens Westinghouse | El Centro 17451 MSG Boxes | Supply finned tubes and fabricate & modularize 8 MSG boxes for HRSG x 2 units , export to USA | 1,070 MT |
| 01/12/2009 22/07/2009 | Vogt Power Inc. Marubeni / Jurong Engineering | IRPC 17446 MSG Boxes | Supply finned tubes and fabricate & modularize 18 MSG boxes for HRSG x 6 units , for local Petrochemical Complex in Rayong | 1,720 MT |
| 01/09/2009 30/11/2010 | Mitsubishi Heavy Industries (Nagasaki) | Paiton III project Boiler duct and casing | Fabricate duct and casing for 815 MW coal fired boiler for export to Indonesia | 3,466 MT |
| 11/05/2009 15/10/2009 | Vogt Power Inc. | Richmond County Phase 5 - 17442 HRSG Module Boxes | Fabricate and assembly 24 module boxes for HRSG x 2 units including finned tube manufacturing, for export to USA | 3,532 MT |
| 03/04/2009 30/11/2009 | Vogt Power Inc. Zachry Construction | Cane Island Unit 4 - 17443 HRSG Module Boxes | Fabricate and assembly 10 module boxes for HRSG x 1 unit , including finned tube manufacturing , export to USA | 1,308 MT |
| 05/08/2008 25/12/2008 | Vogt Power Inc. | Isolux 17437 Blow down tanks | Fabricate blow down tanks for HRSG x 3 units , export to Argentina | 8 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 02/07/2008 20/12/2008 | Vogt Power Inc. | Isolux 17437 SAFI Pipe | Fabricate large bore pipe spool for HRSG x 3 units for export to USA | 107 MT |
| 20/06/2008 22/09/2008 | Vogt Power Inc. | Motiva Crude Expansion Project 17433 SAFI Pipe | Fabricate CS , P11 and P22 grade Pipe Spools for HRSG x 4 units - export to USA | 52 MT |
| 01/06/2008 31/12/2009 | Mitsubishi Heavy Industires (Nagasaki) | Shuqaiq II General Pipe Fabrication | Fabricate stainless steel and CS pipe spools for desalination plant and power plant , export to Saudi Arabia | 2,138 MT |
| 03/04/2008 20/02/2009 | Vogt Power Inc. | Connctive 17438 HRSG Module Boxes | Fabricate and assembly 27 module boxes for HRSG x 3 units for export to USA | 3,048 MT |
| 03/04/2008 20/01/2009 | Vogt Power Inc. | Connective 17438 HRSG Non Pressure Parts | Fabricate inlet duct , CO & SCR for HRSG x 3 units for export to USA | 283 MT |
| 01/04/2008 30/09/2008 | Autrian Energy and Environment - Australia | Sino Iron C80089 HRSG Module Boxes | Fabricate and assembly 10 module boxes of HRSG x 2 units for export to Austraila | 1,022 MT |
| 01/01/2008 31/07/2008 | Vogt Power Inc. | Motiva 17433 HRSG Non Pressure Parts | Fabricate inlet duct , burner duct , CO & SCR , platform work for HRSG x 4 units for export to USA | 542 MT |
| 15/12/2007 31/07/2008 | Vogt Power Inc. | Motiva 17433 HRSG Module Boxes | Fabricate and assembly 12 module boxes of HRSG x 4 units for export to USA | 1,094 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 10/08/2007 30/05/2008 | Austrian Energy and Environment | Condamine Project HRSG Module Boxes | Fabricated and assembly 6 module boxes for HRSG x 2 units for 120 MW comblin cycle plant , export to Australia | 581 MT |
| 20/05/2007 05/12/2007 | CMI EPTI, L.L.C. Siemens | 2048 Argentina HRSG Casing and Inlet Duct | Fabricate HRSG Casing and Inlet Duct for HRSG x 4 units for export to Argentina | 1,513 MT |
| 28/02/2007 25/07/2007 | Vogt Power Inc. | Energia Del Sur HRSG Module Boxes | Fabricate and assembly module boxes for HRSG x 2 units for export to Argentina | 298 MT |
| 15/01/2007 15/10/2007 | Mitsubishi Heavy Industires (Nagasaki) | South Bangkok Combine Cycle HRSG General Piping | Fabricate general piping for HRSG x 2 units | 74 MT |
| 01/01/2007 15/10/2007 | Mitsubishi Heavy Industires (Nagasaki) | South Bangkok Combine Cycle HRSG Non Pressure Parts | Fabricate HRSG hot beams , casing attached with main column , inlet duct and outlet duct x 2 units | 1,185 MT |
| 01/11/2006 25/07/2007 | Vogt Power Inc. | Bartow 17426 HRSG Module Boxes | Fabricate HRSG harps & casing and assembly 40 module boxes for HRSG x 4 units , export to USA | 7,101 MT |
| 01/09/2006 15/08/2007 | Mitsubishi Heavy Industires (Tagasago) | Ratchaburi Power Combine Cycle Plant Piping | Fabricate pipe spool of GT & ST for combine cycle plant 700 MW x 2 | 1,241 MT |
| 20/08/2006 20/12/2006 | Howden Power | Hammond Axial Fan ANN | Fabricate static parts of axial fan type ANN x 2 units for export to USA | 86 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|---|-----------------------|
| 05/08/2006 28/02/2007 | Mitsubishi Heavy Industires (Nagasaki) | Ratchaburi Power Combine Cycle HRSG General Piping | Fabricate general piping for HRSG x 4 units | 149 MT |
| 01/08/2006 01/01/2007 | Babcock & Wilcox | TXU Oak Grove Project B&W89N Pulverizer | Fabricate B&W89N coal pulverizer x 5 units for export to USA | 326 MT |
| 01/07/2006 30/11/2006 | Vogt Power Inc. | Treasure Coast HRSG Module Boxes | Fabricate and assembly 10 - HRSG Module Boxes for export to USA , including related non pressure parts | 1,280 MT |
| 10/03/2006 13/06/2006 | CMI EPTI | Amata Power Project Bypass and Exhaust Stack | Fabricate bypass stack and exhaust stack for HRSG x 1 unit for 59 MW combine cycle plant | 100 MT |
| 06/03/2006 28/08/2006 | Howden Power | AEP Cardinal Axial Fan type ANT3584 | Fabricate axial fan ANT35864 static parts x 4 units for export to USA. | 199 MT |
| 01/03/2006 31/12/2006 | Mitsubishi Heavy Industires (Nagasaki) | Rabigh IWSP Boiler Non Pressure Parts | Fabricate boiler outer casing , buckstary , duct work and misc. for conventional boiler x 9 units for export to Sudi Arabia | 2,626 MT |
| 01/02/2006 15/02/2007 | Mitsubishi Heavy Industires (Nagasaki) | Ratchaburi Power Combine Cycle HRSG Non Pressure Parts | Fabricate HRSG hot beam , casing attached with main column , inlet duct and outlet duct x 4 units | 2,370 MT |
| 20/01/2006 31/10/2006 | Mitsubishi Heavy Industires (Nagasaki) | San Isidro HRSG Non Pressure Parts | Fabricate HRSG hot beam , casing attached with main column , inlet duct and outlet duct x 1 for export of Chile | 644 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|---|-----------------------|
| 10/01/2006 15/06/2006 | Babcock & Wilcox | Cinergy Cayuga 2&1 Limestone Silo | Fabricate limestone silo dia. 8.38 x 20.66 m x 2 units for export to USA | 122 MT |
| 27/12/2005 30/06/2006 | Babcock & Wilcox | Newmont Nevada Enerfy Project Plate work for SDA,baghouse and misc. | Fabricate plate work of Spray Dryer Absorber , baghouse casing , egg crates for export to USA | 694 MT |
| 15/12/2005 01/05/2006 | Babcock & Wilcox | Newmont Nevada Energy Project B&W89N Pulverizer | Fabricate pulverizer type B&W89N x 3 units for export to USA | 164 MT |
| 15/12/2005 01/05/2006 | Babcock & Wilcox | Wygen 2 - Unit 4 Project B&W67 Pulverizer | Fabricated coal pulverizer type B&W67 x 3 units for export to USA | 96 MT |
| 15/12/2005 01/05/2006 | Babcock & Wilcox | Wygen II - Unit 4 Project Plate work | Fabricate duct , casing ,and bag house casing for export to USA | 700 MT |
| 12/12/2005 09/03/2006 | Howden Power | Gorgas Power Axial Fan ANN4480 | Fabricate axial fan type ANN4480 x 2 units for export to USA | 0 MT |
| 28/10/2005 28/02/2006 | Howden Power | Tula Project Air Preheater Static | Fabricate static part of air preheater x 4 units for export | 84 MT |
| 01/07/2005 28/11/2005 | Vogt Power Inc. Siemens | Roseville (17421) HRSG non pressure parts | Fabricate inlet ducts,Co&SCR duct,stacks,platform & stair towers for HRSG x 2 units - export to USA | 361 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|-----------------------|
| 01/07/2005 | Vogt Power Inc. | Roseville (17421) | Fabricate HRSG module boxes (modified MSG) for HRSGx 2 units - export to USA | 797 MT |
| 28/11/2005 | Siemens | HRSG module boxes | | |
| 15/01/2005 | Babcock & Wilcox | Weston | Fabricate 5 sets of B&W89G coal mill for coal fired boiler - export to USA | 276 MT |
| 31/07/2005 | | B&W89G pulverizer | | |
| 15/11/2004 | Babcock & Wilcox | Weston | Fabricate duct work for SCR and Boiler plate work in knocked down parts for export to USA | 1,050 MT |
| 31/08/2005 | | Plate work | | |
| 01/11/2004 | Mitsubishi Heavy Industires (Nagasaki) | BLCP | Fabricate pipe spools for coal fired boilers 700MW x 2 units | 1,313 MT |
| 30/06/2006 | Mitsubishi Corp. | General Piping and Fuel System Pipe | | |
| 01/10/2004 | Kumagai Gumi | BLCP | Fabricate structure parts of coal conveyor line for coal fired boilers 700 MWx2 | 955 MT |
| 15/07/2005 | Mitsubishi Corp. | Conveyor Struture | | |
| 01/09/2004 | Mitsubishi Heavy Industires (Nagasaki) | BLCP | Fabricate FGD absorber dia 14.8 x 22 m - 2 units for 700 MWx2 coal fired boiler plant | 436 MT |
| 30/04/2005 | Mitsubishi Corp | FGD Absorber | | |
| 15/08/2004 | Vogt Power Inc. | Tynagh (17418) | Fabricate HRSG inlet duct , stack and platform - 1 unit for export to Ireland | 450 MT |
| 25/01/2005 | General Electric | HRSG non pressure parts | | |
| 01/08/2004 | Alstom Power Inc | Astoria Project | Fab HRSG stack & outlet duct - 2 units in full assembly for export to NY , USA | 756 MT |
| 01/05/2005 | Alstom Power Inc | HRSG stack & outlet duct | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 15/02/2004 | Mitsubishi Heavy Industires (Nagasaki) | BLCP | Fabricate boiler buckstay,duct,casing for 700MW coal fired boiler x 2 units | 5,831 MT |
| 30/09/2005 | Mitsubishi Corp. | Non pressure parts | | |
| 05/01/2004 | Babcock & Wilcox | Tanjung Jati B | Fabricate 6 sets of MPS89 pulverizer for 700 MW coal fired boilers in Indonesia | 221 MT |
| 07/06/2004 | Sumitomo | MPS89 Pulverizer | | |
| 01/11/2003 | Babcock Service Company | Campbell Project | Fabricate duct and reactor casing in complete module cover with insulation and lagging,export to USA | 3,100 MT |
| 22/07/2004 | | SCR Duct Modules | | |
| 15/10/2003 | Mitsubishi Heavy Industires (Nagasaki) | BLCP | Fabricate cooling water and FGD pipe , dia. Between 550 - 3600 mm. for 700MWx2 coal fired power plant | 3,040 MT |
| 05/10/2005 | Mitsubishi Corp. | CW pipe and FGD pipe | | |
| 30/09/2003 | Babcock & Wilcox | Tanjung Jati B | Fabricate expansion joint 72 sets and louver damper 8 sets for 700 MWx 2 unit coal fired boilers , export to Indonesia | 74 MT |
| 20/03/2004 | Sumitomo | Expansion joint & Damper | | |
| 11/09/2003 | Vogt Power Inc. | Motiva (17415) | Fabricate inlet duct,SCR duct for HRSG x 1 unit , export to USA | 98 MT |
| 08/03/2004 | | HRSG non pressure parts | | |
| 21/07/2003 | Howden Power Ltd. | Taishan Power | Fabricate adjustable propeller FD axial fan casing - 2 units for export to China | 91 MT |
| 10/11/2003 | | Axial Fan | | |
| 23/05/2003 | Vogt Power Inc. | Beatrice (17414) | Fabricate HRSG inlet duct,SCR & CO spool - 2 units for export to USA | 328 MT |
| 29/10/2003 | | HRSG non pressure parts | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 15/12/2002 31/03/2003 | Kumagai Gumi Co.,Ltd. | Mae Moh 4-13 Conveyor line 1 | Fabricate steel structure & chute work for conveyor , coal fired power plant | 377 MT |
| 11/11/2002 25/07/2003 | Babcock Service Company Babcock & Wilcox | Chesterfield Power SCR duct modules | Fabricate & assembly SCR duct in complete module with insulation and lagging for export to USA | 1,226 MT |
| 15/06/2002 22/11/2002 | Vogt - Nem Inc. | Termacau (17410) HRSG non pressure parts | Fabricate HRSG inlet duct,casing,stack and platform - 2 units for export to Brazil | 879 MT |
| 16/05/2002 20/11/2002 | Kawasaki Heavy Industries | Santurzi Combine Cycle HRSG non pressure parts | Fab HRSG casing, duct , stack for export to Spain | 520 MT |
| 23/01/2002 03/08/2002 | Vogt - Nem Inc. | Pike Project HRSG non pressure parts | Fabricate HRSG inlet duct,casing,platform - 4 units for export to USA | 1,219 MT |
| 26/12/2001 05/06/2001 | Vogt - Nem Inc. | Big Sandy (17396) HRSG non pressure parts | Fabricate HRSG duct and platform x 2 units for export to USA | 555 MT |
| 11/12/2001 25/05/2002 | NEM GmbH Babcock Borsig Power | Taragona HRSG inlet duct and stack | Fabricate HRSG inlet duct and stack dia. 6.4x70 m. x 2 units for export to Spain | 411 MT |
| 07/12/2001 02/05/2002 | Vogt - Nem Inc. | Connective B (17402) HRSG non pressure parts | Fabricate HRSG inlet duct - 3 units for export to USA | 177 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 22/11/2001 | Kaefler Raco Engineering | Bowin Power | Fabricate air filter and duct work for Alstom's GT26 gas turbine x 2 units | 221 MT |
| 01/04/2001 | Alstom Power | Air filter house and duct | | |
| 20/10/2001 | Alstom Power Ltd. | Hunterstown | Fabricate HRSG stack dia. 6 x 59 m. - 3 units for export to USA | 554 MT |
| 05/02/2002 | Black & Veatch | HRSG Stack | | |
| 10/10/2001 | Vogt - Nem Inc. | Wisvest X (17399) | Fabricate HRSG duct and platforms x 2 units for export to USA | 555 MT |
| 10/03/2002 | | HRSG non pressure parts | | |
| 01/09/2001 | Vogt - Nem Inc. | Sugar Creek (17400) | Fabricate HRSG duct and platforms x 2 units for export to USA | 540 MT |
| 22/02/2001 | | HRSG non pressure parts | | |
| 01/08/2001 | Vogt - Nem Inc. | Connective (17401) | Fabricate HRSG inlet duct x 3 units for export to USA | 177 MT |
| 31/10/2001 | | HRSG non pressure parts | | |
| 15/07/2001 | Vogt - Nem Inc. | Wansley#8 (17398) | Fabricate HRSG duct and platforms x 2 units for export to USA | 555 MT |
| 10/12/2001 | | HRSG non pressure parts | | |
| 20/06/2001 | Babcock & Wilcox | Wygen Project | Fabricate MPS67 pulverizer x 3 units for coal fired boiler , export to USA | 88 MT |
| 01/10/2001 | | MPS67 Pulverizer | | |
| 15/06/2001 | Vogt - Nem Inc. | Contra Costa (17394) | Fabricate HRSG duct and platform x 2 units for export to USA | 537 MT |
| 30/11/2001 | | HRSG non pressure parts | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 05/06/2001 | Alstom Power Australia | B&V-Choctaw Country | Fabricate HRSG casing x 3 units for export to USA | 661 MT |
| 04/10/2001 | Black & Veatch | HRSG casing | | |
| 05/06/2001 | Alstom Power Australia | B&V-Hunterstown | Fabricate HRSG casing attach with main column x 3 units , for export to USA | 661 MT |
| 04/10/2001 | Black & Veatch | HRSG casing | | |
| 01/06/2001 | Alstom Power Australia | Panda-Gila River | Fabricate HRSG casing x 8 units for export to USA | 2,061 MT |
| 15/04/2002 | | HRSG casing | | |
| 01/06/2001 | Alstom Power USA | Panda - Eldorado | Fabricate HRSG casing attached with side columns x 4 units,export to USA | 1,030 MT |
| 31/01/2002 | | HRSG casing | | |
| 03/05/2001 | Alstom Power Australia | Bang Bo Power | Fabricate and erect HRSG stack x 1 unit for 350 MW CC. | 130 MT |
| 01/08/2001 | Alstom Power | HRSG stack | | |
| 01/05/2001 | Aalborg Industries, Inc. | DENA2003 | Fabricate platform & stairway for HRSG x 16 units , export to USA | 1,384 MT |
| 01/04/2001 | | Platform | | |
| 20/04/2001 | Electricity Generating Authority of Thailand | Krabi Power | Erection of FGD absorber,duct work, and related equipments for 350 MW boiler | 3,300 MT |
| 31/01/2002 | | FGD Erection | | |
| 17/04/2001 | Babcock & Wilcox | ITABO | Fabricate MPS67 pulverizer x 2 units for coal fired boiler,export to USA | 50 MT |
| 01/08/2001 | | MPS67 pulverrizer | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 09/04/2001 15/08/2001 | Kaefar Raco Engineering | Bang Bo Power Air filter house and duct | Fabricate air filter house and duct work for Alstom's GT26 gas turbine x 1 unit | 106 MT |
| 28/02/2001 13/05/2001 | Aalborg Industries, Inc. | GO2006-Taft Platform | Fabricate platform work for HRSG x 3 units ,export to USA | 248 MT |
| 15/01/2001 29/06/2001 | Alstom Power Australia | Bowin Power HRSG stack | Fabricate and erect HRSG stack x 2 units for 700 MW CC. | 260 MT |
| 01/01/2001 31/12/2001 | Babcock & Wilcox | Pulverizer spare part - year 2001 | Fabricate several spare parts of B&W's pulverizers for year 2001, supply to B&W's stock in USA | 30 MT |
| 26/12/2000 05/05/2001 | Vogt - Nem Inc. Siemens Westinghouse | Blythe (17393) HRSG non pressure parts | Fabricate HRSG duct and platform x 2 units for export to USA | 619 MT |
| 15/12/2000 10/04/2001 | Alstom Power Thailand | Bang Bo Power Embedment | Fabricate and install embedment parts for ST/GT26 x 1 unit for 350 MW CC. | 102 MT |
| 13/12/2000 15/03/2001 | Alstom Power Australia | Bowin & Bang Bo Power Fabricate HRSG platform and aux. | Fabricate platform and aux. steel for HRSG x 3 units | 138 MT |
| 15/11/2000 10/04/2001 | Vogt - Nem Inc. Burns & McDonnell | Zealand (17392) HRSG non pressure parts | Fabricate HRSG duct and platform x 2 units for export to USA | 529 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 10/11/2000 15/02/2001 | Aalborg Industries, Inc. | GO2005-Araucaria Platform and walkway | Fabricate platform work for HRSG x 2 units, export to Brazil | 70 MT |
| 08/11/2000 15/05/2001 | Vogt - Nem Inc. Burns & McDonnell | Perryville (17391) HRSG non pressure parts | Fabricate HRSG duct and platform x 2 units for export to USA | 529 MT |
| 23/09/2000 01/01/2026 | Alstom Power Australia | Swan Bank Project HRSG casing and inlet duct | Fabricate HRSG casing and inlet duct x 1 unit for export to Australia | 109 MT |
| 16/08/2000 01/03/2019 | Alstom Power Australia | Bang Bo Power HRSG non pressure parts | Fabricate HRSG casing and inlet duct x 1 units for 350 MW CC | 122 MT |
| 02/08/2000 08/12/2000 | Vogt - Nem Inc. | Heyroad (17389) HRSG non pressure parts | Fabricate HRSG duct x 3 units for export to USA | 177 MT |
| 26/07/2000 05/11/2000 | Alstom Power Thailand | Bowin Power Embedments for ST/GT | Fabricate and install embedment parts for ST/GT26 x 2 units for 713 MW CC | 130 MT |
| 23/07/2000 08/02/2001 | Vogt - Nem Inc. | Smith (17383) HRSG non pressure parts | Fabricate HRSG duct and platform x 2 units for export to USA | 544 MT |
| 15/06/2000 08/01/2001 | Vogt - Nem Inc. | Wansley (17385) HRSG non pressure parts | Fabricate HRSG duct and platform x 4 units for export to USA | 878 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|-----------------------|
| 15/06/2000 | Vogt - Nem Inc. | Londonderry (17387) | Fabricate HRSG duct and platform x 2 units for export to USA | 531 MT |
| 15/01/2001 | Siemens Westinghouse | HRSG non pressure parts | | |
| 15/05/2000 | Aalborg Industries, Inc. | GO1988-Alstom RadesII | Fabricate roof,silencer structure for HRSGx 2 units,export to Tunisia | 134 MT |
| 28/07/2000 | Alstom Power | Aux.structural steel | | |
| 18/04/2000 | Vogt - Nem Inc. | Goat Rock (17386) | Fabricate HRSG duct and platform x 2 units for export to USA | 439 MT |
| 08/10/2000 | | HRSG non pressure parts | | |
| 27/03/2000 | Aalborg Industries, Inc. | GO1988-Alstom RadesII | Fabricate HRSG platform and stairway x 2 units for 471 MW CC, export to Tunisia | 118 MT |
| 12/06/2000 | Alstom Power | Platforms and stairways | | |
| 07/02/2000 | Vogt - Nem Inc. | Payne Creek | Fabricate HRSG casing, duct and platform x 2 units for export to USA | 544 MT |
| 25/06/2000 | Siemens Westinghouse | HRSG non pressure parts | | |
| 05/02/2000 | Aalborg Industries, Inc. | GO#1988 Alstom - Rades | Fabricate HRSG stack and Bypass stack for export to Tunisia | 387 MT |
| 12/06/2000 | Alstom Power | HRSG Stack | | |
| 12/11/1999 | Babcock & Wilcox | Millmerran Power | Fabricate air and gas duct, casing and windbox for coal fired boiler 425 MW x 2 | 1,250 MT |
| 30/11/2000 | Bechtel International | Flue, duct, casing and platework | | |
| 15/09/1999 | Babcock & Wilcox | Sidi Krir Unit 3 & 4 | Fabricate duct and casing for coal fired boilers 450 MW x 2 | 1,041 MT |
| 10/04/2000 | Bechtel International | Flue and duct work | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|-----------------------|
| 18/07/1999 | ABB Sadelmi SpA | FGD Mae Moh 4-7 | Fabricate pipe spool for FGD system for lignite fired boiler 150 MW x 4 | 120 MT |
| 03/08/1999 | Marubeini | Rubber lined pipe spool | | |
| 01/02/1999 | J.V. EGCO/ITE Co.,Ltd. | Ratchaburi Combined Cycle | Erection HRSG x 2 units for combined cycle 600 MW | 5,102 MT |
| 31/08/1999 | J.V. EGCO/ITE Co.,Ltd. | HRSG Erection | | |
| 10/01/1999 | Babcock & Wilcox | Millmerran Power | Fabricate and machine coal pulverizer type MPS98 x 10 set for coal fired boiler | 710 MT |
| 16/09/2000 | Bechtel International | MPS98 Pulverizer | | |
| 16/10/1998 | ABB Sadelmi SpA | Mae Moh FGD unit 4-7 | Fab and erect FGD duct and support for Lignite fired boiler 150 MW x 4 units | 1,468 MT |
| 18/10/1999 | Marubeini | Duct and support | | |
| 16/10/1998 | BMH Claudius Peters AG. | Coal Mills for Rumania | Fabricate and machine coal mills EM59-585 x 16 sets for coal fired boilers x 4 | 470 MT |
| 14/04/2000 | Fortum Engineering Ltd. | EM59 Coal Mills x 16 | | |
| 10/09/1998 | Aalborg Industries, Inc. | Al Tawelah Phase II | Fabricate HRSG stack x 2 units, export to Abu Dhabi | 241 MT |
| 30/01/1999 | Bechtel International | HRSG stacks | | |
| 19/07/1998 | Kumagai Gumi Co.,Ltd. | COCO Phase III | Erection coaling handling and structure for coal fired boiler | 815 MT |
| 02/12/1998 | Black & Veatch | Erection coal handling system | | |
| 15/06/1998 | Kumagai Gumi Co.,Ltd. | COCO Phase III | Fab structural parts of coal handling system for coal fired boiler | 759 MT |
| 15/08/1998 | Black & Veatch | Fab coal handling system | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 01/05/1998 | Babcock Hitachi KK | Krabi Thermal Power | Fabricate buckstay for heavy oil fired boiler 300 MW x 1 | 145 MT |
| 30/08/1998 | Nichimen | Buckstay and Supports | | |
| 13/02/1998 | Babcock & Wilcox | Batu Hijau | Fab. duct and casing for boiler 28 MW x 4, export to Indonesia | 320 MT |
| 24/07/1998 | Fluor Daniel | Flue, duct, casing | | |
| 05/01/1998 | Babcock Hitachi KK. | Krabi Thermal Power | Fabricate duct accessory for heavy oil fired boiler 300 MW x 1 | 120 MT |
| 31/08/1998 | Nichimen | Duct Accessory | | |
| 03/12/1997 | Aalborg Industries, Inc. | Sahapat Cogen and Rojana Cogen | Fab. HRSG non pressure parts x 4 for two units of 120 MW cogeneration plant | 792 MT |
| 30/06/1998 | NEPCO Inc. | HRSG non pressure parts | | |
| 25/11/1997 | Vogt - Nem Inc. | IPT Project | Fabricate HRSG casing, duct, stack, platform x 2 units for 700 MW CC. | 1,508 MT |
| 15/08/1998 | Seimens Westinghouse | HRSG non pressure parts | | |
| 13/09/1997 | Power-P Public Company | Bangkok Cogen. | Erection mechanical equipments for 112 MW cogeneration plant (HRSG, CT, ST and B | 1,940 MT |
| 30/04/1998 | Fluor Daneil | Mechanical erection | | |
| 23/06/1997 | Mitsubishi Heavy Industires (Nagasaki) | Ratchaburi Thermal Power | Fabricate buckstay, windbox, duct, ECO hopper, casing for oil/gas fired boiler | 3,256 MT |
| 03/08/1998 | Mitsubishi Corp. | Boiler non pressure parts | | |
| 10/05/1997 | Aalborg Industries, Inc. | Bangkok Cogen. | Fab. HRSG non pressure parts x 1 for 112 MW combine cycle plant | 480 MT |
| 05/09/1997 | Fluor Daneil | HRSG non pressure parts | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 01/01/1997 | Mitsubishi Heavy Industires (Nagasaki) | Wang Noi Combine Cycle II | Fabricate buckstay, duct, casing, hopper for vertical HRSG x 2 of 300 MW CC. | 1,200 MT |
| 30/06/1997 | Mitsubishi Corp. | HRSG non pressure parts | | |
| 15/05/1996 | Mitsubishi Heavy Industires (Nagasaki) | Wangnoi Combine Cycle I | Fab hot beam, pipe and header support of vertical HRSG x 2 for 300 MW combine cy | 156 MT |
| 15/07/1996 | Mitsubishi Corp. | HRSG hot beam and support x 2 | | |
| 15/02/1995 | Standard Fasel - Lentjes B.V. | Star Refinery | Fab. HRSG non pressure parts , structure ,hoppers and CO-Oxidisor | 650 MT |
| 15/06/1995 | JGC Corp. | HRSG structure, duct and stack | | |
| 04/07/1994 | Kvaerner ABB Consortium | Bhumibol Hydro Power Project | Install unit 8 spiral draft tubes and associated equipment | 120 MT |
| 31/12/1995 | | Supply man power | | |
| 02/05/1992 | Voest Alpine M.C.E. | Pak Mun Hydroelectric | Fabricate intake trash racks for hydro power plant | 120 MT |
| 31/03/1993 | | Intake Trash Racks | | |
| | Babcock & Wilcox | B&W spare parts | Fabricate & pre-machine of pulverizer's gear box housing for export to USA | 0 MT |
| | | Gear Housing | | |
| | Aalborg Industries, Inc. | Sahapat Cogen and Rojana Cogen | Fab. stack, duct, structure and platform for aux. Boiler x 2 | 0 MT |
| | NEPCO | Aux. Boiler non pressure part | | |
| | Babcock Hitachi K.K. | Krabi Power | Fabricate FGD duct accessory, alloy steel and stainless steel | 45 MT |
| | Nichimen | FGD Duct Accessory | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--|---|-----------------------|
| | Babcock Hitachi K.K. | Krabi Power | | 0 MT |
| | Nichimen | Sole plate | | |
| | Continental Ace Pty Ltd. | Mae Moh 2nd Lignite Relocation | Fabricate structure of feed table and station of lignite handling - spare set | 0 MT |
| | Continental Ace Pty Ltd. | Feed table and station structure | | |
| | Dampers Engineering | Thai Oil Cogen Diverters for Frame 63 GT. | Fab bypass diverters x 2 for GT frame 6B, cogeneration plant | 0 MT |
| | Aalborg Industries, Inc. | Sahapat Cogen and Rojana Cogen. | Fab. HRSG baffle plate x 4 for two units of 120 MW cogeneration plant | 0 MT |
| | NEPCO | HRSG baffle plate | | |



ANNEX.1 PROJECT EXPERIENCE



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PROJECT EXPERIENCE LIST : Petrochem / Oil and Gas

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--|---|----------------|
| 08/09/2022 30/04/2023 | Born Inc. | 1H-250 HEATER for ERBIL REFINERY Cylindrical Heater | Fab Cylindrical Heater - 1 Units weight 109.74 MT/Unit export to Iraq | 110 MT |
| 13/08/2022 15/12/2023 | Boustead International Heaters Limited | 768/262 | Fab VC Hot Oil Heater - 7 Units Radiant, Convection, Stack & Duct, Damper, Support, Ladders and Platforms, Misc export to USA | 1,078 MT |
| 13/08/2022 31/03/2023 | Boustead International Heaters Limited | 767/262 | Fab Hot Oil Heater - 1 Unit Radiant, Convection, Stack & Duct, Damper, Support, Ladders and Platforms, Misc export to Algeria | 348 MT |
| 21/07/2022 31/03/2023 | Boustead International Heaters Limited | 766/262 | Fab VC Heater - 1 Unit Radiant, Convection, Stack & Duct, Damper, Support, Ladders and Platforms, Misc export to Mozambique | 110 MT |
| 01/02/2022 31/12/2022 | JGC | IRAQ BASRAH REFINERY UPGRADING FCC Duct, Stack and Lined Piping | Fab FCC Duct, Stack and Lined Piping export to Iraq | 349 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--------------------------------------|--|---------------------------|
| 05/08/2021 25/04/2022 | Boustead International Heaters Limited | 762/262 | Fab VC Hester - 1 Unit Convection, Support Steelwork ,Header Box ,Stack&Duct ,Ladder&Platforms Misc export to Mexio | 191 MT |
| 05/08/2021 25/04/2022 | Boustead International Heaters Limited | 761/262 | Fab WHRU - 1 Unit Convection, Support Steelwork ,Header Box ,Stack&Duct ,Ladder&Platforms Misc export to Mexio | 262 MT |
| 15/06/2021 01/04/2022 | Kirchner Italia S.p.A | Oman Heater B-9507-09 | Fab Fire Heater 4 units export to Iran | 1,449 MT |
| 27/01/2021 25/08/2021 | Boustead International Heaters Limited | 758/262 | Fab WHRU - 3 Units Convection, Support Steelwork ,Header Box ,Stack&Duct ,Ladder&Platforms Misc export to Senegal | 345 MT |
| 09/09/2020 17/09/2021 | Boustead International Heaters Limited | 756/262 | Fab OSTG-4 Units Convection, Support Steelwork ,Header Box ,Stack&Duct ,Ladder&Platforms Misc export to Brazil | 916 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|---|---|---------------------------|
| 02/07/2020 30/03/2021 | Boustead International Heaters Limited | 757/262 Marlim Project | Fab WHRU 4 units Convection ,Header Box ,Stack&Duct ,Ladder&Platforms export to Brazil | 480 MT |
| 29/10/2019 30/06/2020 | Boustead International Heaters Limited BHGE | 749/262 | Fab WHRU 2 units Convection ,Header Box ,Stack&Duct ,Ladder&Platforms export to Nigeria | 194 MT |
| 25/10/2019 31/10/2021 | Boustead International Heaters Limited TechnipFNC | 747/262 Arctic LNG2 Project | Fab WHRU 20 units Convection ,Header Box ,Stack&Duct ,Ladder&Platforms export to Russia | 7,124 MT |
| 28/06/2019 31/05/2020 | Kirchner Italia S.p.A | Maaden3 Convection Modularization | Fab Convection Modularization 1 unit export to Saudi Arabia | 691 MT |
| 12/06/2019 15/03/2020 | Kirchner Italia S.p.A | NESTE SINGAPORE EXPANSION PROJECT Hot Oil Heater (B-8929) | Fab Vertical Cylindrical Heater (Steelwork and Coil) 56BA-01 1 unit for export to Singapore | 419 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--------------------------------------|---|---------------------------|
| 13/03/2019 23/10/2019 | Boustead International Heaters Limited | 739 / 262 | Fab Heater / Radiant Modules (2 halves) + convection module + stack (3 ea.) + Duct work + Ladder&Platform export to Venezuela | 224 MT |
| 19/03/2019 15/12/2019 | Boustead International Heaters Limited | 738 / 262 | Fab WHRU / convection module + top transition + support steel work export for Australia | 192 MT |
| 31/01/2019 15/10/2019 | Kirchner Italia S.p.A | BAPCO MODERNIZATION B-8787-90 | Fab Fire Heater 2 unit Convection Module ,Radiant Coil ,Frame for Packing export to Bahrain | 440 MT |
| 31/01/2019 30/09/2019 | Kirchner Italia S.p.A | BAPCO MODERNIZATION B-8797-99 | Fab Fire Heater 2 unit Convection Module ,Radiant Coil ,Frame for Packing export to Bahrain | 525 MT |
| 15/12/2018 14/07/2020 | Hyundai | Bangchak 3E Phase II (CCR&HCU) | Equipment erection and modification / Piping fabrication and erection 157,745DI at BKK Thailand | 3,500 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|---|---|---------------------------|
| 25/10/2018 30/06/2019 | KT Kinetics Technology | K315 | Revamp / upgrade fired heater 2 units CDU heater F-1001 & HVU heater F-1101 for Local in Thailand | 274 MT |
| 02/10/2018 30/10/2019 | ITT S.p.A | CCR & HCU Project Fire Heater | Fab Fire Heater (NPU Reactor feed & CCR Heater) 17630B (Vertical Cylindrical Heater) 17631B (CCR Heater) for local in Thailand | 1,428 MT |
| 01/06/2018 30/11/2018 | Boustead International Heaters Limited | WHRU 732/262 | Supply WHRU 3 units / Finning 414 tubes export to Denmark | 132 MT |
| 20/03/2018 17/08/2018 | PTTEP | Mobile Product Facilities Project Knock Out Drum/Liquid Seal Drum | Fab Knock Out Drum 3 ea./Liquid Seal Drum 3 ea for local in Thailand. | 4 MT |
| 01/02/2018 17/04/2018 | PTTEP Siam Limited | Mobile Production Facilities Project Knock Out Drum/Liquid Seal Drum | Refurbish Heater total 2 Ea.Inspection and Refurbish Flue Gas Scrubber total 1 Ea./Supply and Fab Flue Gas Scrubber total 1 Ea. For local in Thailand. | 14 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|---------------------------|
| 30/11/2017 20/07/2018 | Kirchner Italia S.p.A HEC | Uzbekistan Gas to Liquid (UZGTL) Project | Fab Convection modules for 120-HF-101&201, 150-HF- 002, 150-HF-004 and Radiant coils & Interconnecting Pipe for 172-XP-007 export to Uzbekistan | 1,164 MT |
| 18/05/2018 05/10/2018 | PTTEP Siam Limited | Mobile Production Facilities Project Knock Out Drum/Liquid Seal Drum | Fab. Knock Out Drum 2 ea weight 850kg/ea.Fab. Liquid Seal Drum 2 ea weight 440 kg/ea for local in Thailand. | 3 MT |
| 23/01/2017 15/07/2017 | Boustead International Heaters Limited AMEC Foster Wheeler | 719/262 Essar Oil Tiger Club | Supply Replacement Convection Box and Duct 1 unit (F-2152) export to UK. | 96 MT |
| 01/07/2016 14/04/2017 | Amec Foster Wheeler Energy Limited. DAELIM Industrial Co Ltd. | S-Oil Energy Recovery Package Project Waste Heater Recovery | Fabricate and modularize Waste Heat Recovery unit (FHD modules) for export to Korea , S-Oil Refinery and Petrochemical | 1,256 MT |
| 01/05/2016 20/12/2016 | Boustead International Heaters Limited Exxon | 711/262 Vertical Cylindrical Heater Project | Supply VC Heater 2 units (F- 100, F-101) Radiant, Convection, Transition, Stack, Platform, Handrail, Grating export to Texas USA | 311 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|---------------------------|
| 06/11/2015 | Boustead International Heaters Limited | 706/262 | Supply VC Heater 3 units export to Norway | 267 MT |
| 30/09/2016 | Aker Solutions / Statoil | Vertical Cylindrical Heater Project | | |
| 01/09/2015 | PTTEP | NEW FACILITY Installation | Long term contract in giving service of new facilities construction work which include civil , mechanical , electrical and instrumentation work. | 0 MT |
| 31/08/2018 | | CONSTRUCTION AND MPF RELOCATION | | |
| 07/06/2015 | PCD | Cameron LNG | Center weld 316H and 304H pipes to form full length tube before finning process for WHRU , export to USA | 171 MT |
| 30/10/2015 | CCJV(CB&I + Chiyada) | Center weld for finning | | |
| 19/05/2015 | Kirchner Italia SpA | B-7634/334 | Fab Heater 2 units Convection Box / Header Box / Coil / Lifting Beam export to KARBALA , IRAQ | 401 MT |
| 15/01/2016 | | Karbara Refinery Project | | |
| 26/02/2015 | Boustead International Heaters Limited | 697/262 | Fab Heater 2 Units Recycle Gas Heater 45-F-1, Combined Feed Heater 45-F-2 export to Canada | 803 MT |
| 30/10/2015 | | BIH 697 Project | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|---|--------------------------------------|--|---------------------------|
| 15/12/2014 | Kirchner Italia SpA | B-7531-32 | Fab Heater 1 Unit Radiant , Convection Box, Breeching, Stack, Flues Gas Duct, Combustion Air Duct, Plateform, Stairs, Ladder, export to Singapore | 257 MT |
| 30/05/2015 | JGC | SRC Mogas Cogen Project | | |
| 22/08/2014 | Boustead International Heaters Limited | 692/262 | Fab WHRU 2 Units Convection box,Stack, Inlet,Transition, Duct, Expansion joint for export to Zirku Island Abu Dhabi | 704 MT |
| 31/05/2015 | GE Oil & Gas | GE - Zirku Island Project | | |
| 13/08/2014 | Boustead International Heaters Limited | 693/262 | Fabrication Vacuum Heater 1 Unit Crude Heater 1 Unit Convection box Radiant coil and Radiant Header box for export to USA | 192 MT |
| 30/04/2015 | KBR | KBR BP- Husky Project | | |
| 26/06/2014 | Boustead International Heaters Limited | 686 | Fabrication WHRU 4 Units Convection box, Stack, Transition & Bypass Duct, Silencer, Duct, Raft Support, Ex-joint for export to Nigeria | 388 MT |
| 28/02/2015 | GE Oil & Gas | GE- Egina - WHRU Project | | |
| 26/05/2014 | Kirchner Italia SpA | 7422 RPA | Finned tube supply+Fab & Modularize Convection Box 5 Sets for Reformer 1 Unit and Radiant Coil 1 Unit for export to Russia | 4,154 MT |
| 20/02/2015 | MHI | MH Reformer | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|---------------------------|
| 02/06/2014 | Foster Wheeler Energy | Ngison Refinery and Petrochemical | Fab & Modularize Convection Box 6 Set and Radiant Box 40 Set for export to Ngi Son Vietnam | 2,002 MT |
| 30/06/2015 | GS E&C | Hydrogen Reformer | | |
| 10/04/2014 | H & R ChemPharm | H & R Wax and Tank Farm | Fab & Erection Tank , Piping for local Thailand | 260 MT |
| 30/11/2014 | | Pinthong 3 _Chonburi | | |
| 06/03/2014 | VPE | USGC Petrochemical Project | Center welding for Finned tube CS,304H,347SS,P22 size 4.5" - 6.625" total 6,304 joint accounted for 33,664 DB for export to USA | 1,690 MT |
| 25/10/2014 | JGC | Center Weld | | |
| 11/03/2014 | Boustead International Heaters Limited | BIH 684 | Fabrication WHRU 6 Units Convection Box, Stack, Transition, Silencer, Hopper duct, Reft Support For Export to Russia | 2,353 MT |
| 15/06/2015 | | Yamal. Russia - WHRU Project | | |
| 13/03/2014 | Kirchner Italia SpA | Nghi Son - A7220-23 | Fabricate Heater 1 unit convection , radaint , stack , flue gas duct , structure and damper (304SS) for export to Ngi Son Vietnam | 1,851 MT |
| 15/12/2014 | JGC | CCR Heater | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|---------------------------|
| 07/03/2014 | On Quest Canada ULC | Hot Oil Heater 8068 | Fabricate Cylindrical Fire Heater twin units with Convection Boxes and Stack for local refinery , Sriracha , Chonburi, Thailand | 686 MT |
| 22/08/2014 | Hyundai E&C / Thai Oil | Fire Heater | | |
| 01/02/2014 | Petro-Chem DevelopmentCo.,Ltd | Exxon NAG | Center weld for fin tube, Cracking Heater 8 units for export to North America | 953 MT |
| 27/07/2014 | Exxon | Center Weld | | |
| 05/02/2014 | Boustead International Heaters Limited | BIH683 | Fabricate WHRU 1 unit convection box (module) , stack , transition , silencer , by pass duct for export to Norway | 134 MT |
| 15/10/2014 | | WHRU | | |
| 23/12/2013 | On Quest Canada ULC | WHRU 8070 | Fabricate two Convection Modules and seven Duct Modules of WHRU for PTT seperation plant in Rayong , Thailand | 629 MT |
| 30/06/2014 | Samsung Engineering / PTT | Coil & Steel Fabrication | | |
| 28/10/2013 | Boustead International Heaters Limited | 681 | Fabricate convection box (module) , duct , stack , transition , inlet duct , bypass duct for export to Congo | 191 MT |
| 02/07/2014 | | Congo-WHRU | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|---------------------------|
| 17/10/2013 30/06/2014 | International Thermal Technology S.p.A KBR | 13127B Dyno Project | Fabricate radiant , stack , duct and plateform for reformer for export to Luisiana , USA | 869 MT |
| 01/11/2013 12/03/2014 | Kirchner Italia SpA Saipem | B6981 Rabigh 2 Refining Radiant Coil | Fabricate radiant coil of reformer for Aramco - Rabigh2 Refining Petrochemical Project - Naphtha and Aromatic Package , P9 and P11 material. | 299 MT |
| 01/09/2013 14/07/2014 | Petro- Chem Development Co.,Inc. | F132051 Shintech Fire Heater | Fabricate cabin fire heater x 2 , including radiant casing , stack , platform and modularize convection boxes for export to USA | 1,498 MT |
| 11/07/2013 25/07/2014 | Boustead International Heaters Limited GE | BIH 676 Berakas Power Station WHRU x 4 | Fabricate WHRU x 4 including finned tubes supply for GE LM2500 gas turbine , for export to Brunei | 852 MT |
| 01/06/2013 15/02/2014 | Kirchner Italia SpA Saipem | Dangote Fertilizer Reformer Convection boxes | Fabricate and modularize 20 convection boxes for two units of reformer under Haldor license and one unit of start up heater , for export to Nigeria | 2,630 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--|--|---------------------------|
| 01/08/2013 | Boustead International Heaters Limited | Western Isles Development Project | Fab WHRU x 3 including finned tubes supply for FPSO , export to UK | 104 MT |
| 07/03/2014 | Siemens Industrial Turbomachiner AB | WHRU | | |
| 23/02/2013 | ITT SpA | Petrobras Tres Lagoas | Fabricate helical tube fire heater including convection box including finned tubes supply and stack for export to Brazil | 126 MT |
| 15/06/2013 | | Helical Tube Fire Heater | | |
| 01/02/2013 | Boustead International Heaters Limited | BIH661 Ichthys Gas Filed | Fabricate WHRU x 3 including supply finned tubes for gas field development project , export to Australia | 605 MT |
| 14/08/2013 | GE Oil & Gas | WHRU x 3 | | |
| 30/09/2012 | Boustead International Heaters Limited | BIH664 Bir Seba | Fabricate cylindrical heater x 1 and WHRU x 2 including supply finned tubes for export to Algeria | 368 MT |
| 30/03/2013 | JGC Corporation | WHRU & Fire Heater | | |
| 01/01/2013 | Boustead International Heaters Ltd. | 656 Australia Pacific LNG Project-Train2 | Fabricate Hot Oil Cylindrical Heater + Hot Oil WHRU x 2 + Regen Gas WHRU x 2 for export to Australia Pacific LNG Project | 597 MT |
| 21/07/2013 | Bechtel Inernational | Hot Oil Heater & WHRU x 4 units | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|---|---|---------------------------|
| 28/02/2012 | Boustead International Heaters Ltd. | 644 Australia Pacific LNG Project-Train 1 | Fabricate Hot Oil Cylindrical Heater + Hot Oil WHRU x 2 + Regen Gas WHRU x 2 for export to Australia Pacific LNG Project | 597 MT |
| 14/01/2013 | Bechtel International | Hot Oil Heater & WHRU x 4 units | | |
| 01/03/2012 | Boustead International Heaters Ltd. | 646 Whitecourt Canada Project | Fabricate Hot Oil WHRU x 3 units for oil & gas , export to Canada , fully comply with CWB for structural steel and ASME stamped for coil work | 794 MT |
| 10/10/2012 | GE Oil & Gas | Hot Oil WHRU x 3 units | | |
| 15/02/2012 | Boustead International Heaters Ltd. | 647 GLNG Plant Project - Train 2 | Fabricate Hot Oil Cylindrical Heater + Hot Oil WHRU x 2 + Regen Gas WHRU x 2 , for export to Australia | 692 MT |
| 15/09/2012 | Bechtel International | Heater & WHRU x 4 units | | |
| 17/11/2011 | Boustead International Heaters Ltd. | 645 Solar - Laggan Tormore Project | Fabricate WHRU x 4 units for off shore oil & gas project , Shetland Islands , UK , supply with C.E. mark for coil works | 208 MT |
| 18/05/2012 | Solar Turbines | WHRU x 4 units | | |
| 31/08/2011 | Metso | Ube | Fabricate NPP & Piping and install AR Boiler for Ube plant , Rayong , Thailand | 538 MT |
| 30/04/2012 | | AR Recovery Boiler | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|---------------------------|
| 26/08/2011 31/03/2012 | Boustead International Heaters Ltd. - | 640 GLNG Plant Project - Train 1 Regen Gas WHRU x 2 | Fabricate Regen Gas WHRU x 2 units for export to Queensland , Australia | 120 MT |
| 17/08/2011 07/04/2012 | Boustead International HeatersPte Ltd. | 641 Shell Bukom Convection boxes for fire heater | Fabricate and modularization of 5 convection boxes for fire hater , for export to Singapore | 177 MT |
| 04/04/2011 23/01/2012 | Boustead International Heaters GE Oil and Gas | 635 CLOV FPSO - Off Shore Block 17 WHRU x 3 units | Fabricate WHRU x 3 units for off shore oil and gas project , including ASME stamped , export to Angola | 306 MT |
| 07/03/2011 16/02/2012 | Boustead International Heaters Bechtel Inernational | 634 GLNG Project - Train 1 Heater and WHRU | Fabricate one cylindrical hot oil heater , including modularize of radiant box and hot oil WHRU x 2 units for export to Queensland , Australia | 514 MT |
| 01/03/2011 03/10/2011 | BIH Heaters Malaysia Sdn Bhd | 633 Hijau Gasoil Project Cylindircal Fire Heater | Fabricate Cylindrical Reactor Charge Heater Dia. 4.73 including convection box module , radiant coil in casing panels - for export to Malaysia | 151 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|---------------------------|
| 15/12/2010 | Boustead International Heaters Ltd. | WHRU 628-262 | Supply finned tubes , fabricate and assembly WHRU x 3 units for export to Bolivia | 146 MT |
| 01/05/2011 | Solar Turbine International Company | Repsol Magarita Field - Bolivia | | |
| 15/07/2010 | Kirchner Italia SpA | Sonara , Limbe Refinery - Cameroon | Fab. fire heater x 2 units including radiant coils (316L , P22 , P5, P9) convection box (CS , P11, P9 , 800H) modularization export to Cameroon | 619 MT |
| 30/04/2011 | | Fire Heater | | |
| 01/05/2010 | Boustead International Heaters Ltd. | Fire Heater - 616-262 | Supply finned tubes , fabricate and modularize complete 9 m.x 30m. Cylindrical fire heater x 2 units including E&I for export to Australia | 967 MT |
| 01/05/2011 | Kellogg Joint Venture / Gorgon | Gorgon - Barrow Island LNG Plant | | |
| 28/05/2010 | Boustead International Heaters Ltd. | Orica Ammonia Plant 622-262 | Supply finned tube , fabricate and modularize radiant box (316H) and convection box (CS, P11,316H) of fire heater for export to NSW Australia | 224 MT |
| 30/10/2010 | | Preformer Furnace 105B | | |
| 01/06/2010 | Kirchner Italia SpA | Catagena Refinery Expansion Project | Fabricate fire heaters x 5 units (box type) for export to Colombia | 1,232 MT |
| 28/02/2011 | CBI | Fire Heaters | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|---------------------------|
| 14/09/2009 | Boustead International Heaters Ltd. | WHRU 610-262 | Supply finned tubes and fabricate /assembly Waste Heater Recovery Unit (WHRU) for export to Algeria | 287 MT |
| 31/03/2010 | Saipem SpA | GNL3Z Algeria | | |
| 01/05/2009 | Kirchner Italia SpA. | B-5008-10 Esfahan Refinery Upgrading | Supply finned tube , fabricate two box heaters and two cylindrical heaters , including radiant coils and convection boxes for export to Iran. | 1,449 MT |
| 30/05/2010 | Daelim Industrial Corp. | Cabin Heaters & VC Heaters | | |
| 27/08/2009 | Furnace Engineering Inc. | AR4 PJ | Fabricate 321SS convection coils and 321SS radiant coils and assembly in bundle for replacement in existing fire heater in Iran | 95 MT |
| 20/03/2010 | | Fire Heater Coil Replacement | | |
| 12/12/2008 | A De Jong BV | Shazand Arak | Fabricate CO Combuster Dia 8.5 m x 17 m. for export to Shazand Arak project in Iran | 177 MT |
| 01/09/2009 | | CO Combuster | | |
| 29/11/2008 | Selas Fluid Processing Corp. | Petrologistic | Fabricate convection box for fire heater , including finned tube manufacturing , export to USA | 216 MT |
| 15/06/2009 | | Fire Heater Convection Box | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|---|---------------------------|
| 15/03/2008 30/06/2009 | Petro-Chem Development Co.,Inc. | Valero Fire Heater | Fabricate and modularize convection boxes and radiant boxes (P3,P9,347H,CS) including stack,duct for box type fire heater x 6 units, export to USA | 2,600 MT |
| 15/12/2007 30/11/2008 | Petro-Chem Development Co.,Inc. | Motiva Fire Heater | Fabricate convection box (P22 , CS) and all components above radiant box including platform work for box type fire heater x 2 units , export to USA | 2,607 MT |
| 01/11/2007 30/11/2008 | CTCI (Thailand) Ltd. | HMC - PDH Fire Heater | Fabricate and erection complete box type fire heater x 2 unit (347H,P22,CS) for PTT - HMC PDH Plant - Rayong , Thailand | 1,700 MT |
| 01/03/2008 01/09/2008 | CTCI (Thailand) Ltd. | BANGCHAK PROJECT SRU / SWSU PIPING WORK | Fabrication and Installation of piping for SRU / SWSU, Approx. 100,000 DB Bangchak Project, Bangkok, Thailand | 300 MT |
| 15/10/2007 30/04/2008 | Kirchner Italia SpA Chiyoda | Chiyoda Ras-Laffan Cylindrical Heater | Fabricate and assembly 3 cylindrical fire heater (P22 , A333-Gr6 , CS) , for export to Qatar | 257 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|---|--|--|---------------------------|
| 01/08/2007 15/02/2008 | Kirchner Italia SpA | Qatar Melamina Hot Oil Heater | Fabricate and assembly 9.5 m. dia. cylindrical fire heater , for export to Qatar | 290 MT |
| 01/08/2007 31/10/2007 | Heurtey Petrochem | Reliance ER06031 Coker Feed Heater | Fabricate and assembly convection box (P5) for fire heater , export to India. | 30 MT |
| 15/08/2006 15/01/2007 | Heurtey Petrochem Bechtel Inernational | Jamnagar Refinery Convection Module | Fabricate and assembly 8 convection module boxes (P9,347H,Cs) for cylindrical heater , export to India | 550 MT |
| 01/07/2006 31/03/2007 | Kirchner Italia | PDH & PP Project Fire Heater | Fabricate cylindrical and box heater including convection modules for export to Saudi Arabia | 1,380 MT |
| 15/04/2006 15/03/2006 | Kirchner Italia SpA JGC-Technip | Don Quat Refinery Fired Heater | Fabricate cylindrical and box fired heater for export to Vietnam | 566 MT |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|---|--------------------------------------|---|---------------------------|
| 10/02/2004 | Dejong Coen BV | Sohar - Oman | Fabricate CO-Oxidizer dia. 7.9 m. x 15.2 m for export to Oman | 130 MT |
| 30/10/2004 | JGC Corp. | CO Oxidizer | | |
| 26/02/2001 | The Bangchak Petroleum Public Company Ltd. | Modify SCTU#1900 | Modify and repair waste treatment unit for refinery | 120 MT |
| 05/06/2001 | | SCTU#1900 | | |
| 15/12/1997 | Standard Fasel/De Jong Coen | Formosa Petrochemical | Fab CO oxidizer, SNCR duct, foundation plate and hopper x 2 | 420 MT |
| 15/09/1998 | JGC Corp. | CO oxidizer and SNCR duct | | |
| 15/02/1996 | LG Engineering Co., Ltd. | TPI Lube Base Oil | Erect total 147,800 DB piping and mechanical equipments for Lube Base Oil plant | 2,460 MT |
| 15/08/1996 | | Piping and Mechanical works | | |
| 01/02/1996 | Reintjes International | TPI Incinerator Lining | Install refractory work for incinerator | 56 MT |
| 29/02/1996 | | | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|---|--------------------------------------|--|-----------------------|
| 01/06/1996 | Samsung Heavy Industries Co.,Ltd. | TPI Ethylene Project | Erect ESP x 2 for oil/gas fired boiler 110 t/h x 2 in Ethylene plant | 150 MT |
| 30/09/1996 | Samsung Engineering and Construction Ltd. | Erection Electrostatic Precipitator | | |
| 15/10/1995 | Samsung Heavy Industries Co.,Ltd. | TPI Ethylene Project | Erect 110 tph oil/gas fired boiler x 2 and 35 MW steam turbine in Ethylene Plant | 2,302 MT |
| 30/09/1996 | Samsung Engineering and Construction Ltd. | Erection boilers and turbine | | |
| 15/04/1994 | TIPCO Asphalt Public Co., Ltd. | TIPCO tank work & piping | Fab. and erect 6500 and 3500 cu.m. fuel oil tank and piping work | 615 MT |
| 15/08/1994 | | Fab. and erect fuel oil tank | | |
| 15/06/1993 | Toyo - Thai | Bang Pa In Oil Terminal | Prefabricate fuel oil tank and roof structure for tank farm | 1,350 MT |
| 15/07/1993 | | Fuel Oil Tank | | |
| 24/09/1992 | Samsung Co., Ltd. | BCP Bang Pa-In Oil Tank | Fab & erect 16 Nos of oil tanks, total 399,960 barrels | 1,900 MT |
| 15/06/1993 | Samsung Engineering and Construction Ltd. | Fab and erect oil tank farm | | |

| Contract Period | Client Name Main Contractor | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|---------------------------|
| 15/11/1989 | SPIE Batinolles | PTT Prakanong Oil Dpot | Prefab and erection fuel oil tank for oil tank farm | 300 MT |
| 15/09/1990 | | Tankage and piping works | | |



ANNEX.1 PROJECT EXPERIENCE



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PROJECT EXPERIENCE LIST : CEMENT and MINING

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|-----------------|---|--|---|----------------|
| 04/03/2022 | Paul Wurth | 400873 - Tosyali | Fab Bin ,Vessel 5 units export to Algeria | 789 MT |
| 28/09/2022 | | 2,5 MTPA H-CDRI Plant-Second Unit | | |
| 28/01/2022 | Paul Wurth | 400873 - Tosyali | Fab Chute ,Bin ,Hopper and Vessel export to Algeria | 500 MT |
| 10/05/2022 | | 2,5 MTPA H-CDRI Plant-Second Unit | | |
| 28/01/2022 | Paul Wurth | 400873 Tosyali | Fab Heat Recovery Casing ,Reformer Casing ,Plant/Instrumentation Air Receiver export to Algeria | 610 MT |
| 19/11/2022 | | 2,5 MTPA H-CDRI Plant-Second Unit | | |
| 31/01/2022 | Midrex | Hadeed | Fab Reformer Manifold Collectors (Dog Leg) total 570 sets export to Saudi Arabia | 104 MT |
| 10/08/2022 | | Reformer Manifold Collectors (Dog Leg) | | |
| 10/09/2021 | Midrex | 3868 MHBI(MGOK) | Fab Reformer Manifold Collectors (Dog Leg) total 570 sets export to Russia | 86 MT |
| 13/05/2022 | | Reformer Manifold Collectors (Dog Leg) | | |
| 06/06/2021 | Babcock & Wilcox | B&W89G | Scope Pulvarizer B&W89 2units weight 67160 Lbs | 31 MT |
| 21/01/2022 | | Replacement Parts | | |
| 15/02/2018 | Midrex | TOLEDO HBI | Fabrication Equipment: Top Gas Scrubber, Reduction Furnace, Reformer Casing, Gas Mist Eliminator etc. total weight 1,186 Tonnes export to | 1,186 MT |
| 25/01/2019 | | | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 13/01/2017 30/08/2017 | Paul Wurth Italia S.p.A. | G1850 - AQS 250 TPY NBRI - CDRI | Fab Process Gas Compressor Mist Eliminator total 5 sets export to Algeria | 67 MT |
| 23/12/2016 30/08/2017 | Paul Wurth Italia S.p.A. | G1850 - AQS 250 TPY HDRI - CDRI | Fab Heater Recovery Casing 1 set ,Furnace Charge Hopper 1 set , Charge Hopper Riffler 1 set export to Algeria | 240 MT |
| 07/11/2016 06/03/2017 | Midrex | 3863-SR19 Cooler Cooling Gas Distributor | Fab Cooler Cooling Gas Distributor total 1 unit spaer part export to Algeria | 18 MT |
| 10/11/2016 05/10/2017 | Paul Wurth Italia S.p.A. | Reformer Casing Fabrication | Fab Reformer Casing 1 set export to Algeria | 394 MT |
| 18/01/2016 08/07/2016 | Paul Wurth Italia S.P.A. | Tosyali Project Steel Vessel (DRI Plant) | Fab Mist Eliminator = 9 units, Charge Hopper = 1 unit, Bottom Seal Gas = 1 unit, Dust Collection Tank = 1 unit, etc export to Algeria | 171 MT |
| 01/01/2016 25/02/2016 | Thai Jurong ENGG.,LTD | Asia Cement Stack SARABURI | Fab Stack 1 unit for local in Thailand | 81 MT |
| 02/12/2015 01/06/2016 | Midrex | Tosyali - Arzew Region of Algeria 3857-SR19 Cooler Cooling Gas Distributor | Fab. Cooler Cooling Gas Distributor for 1 unit and supply spare parts export to Algeria | 18 MT |
| 21/09/2015 15/04/2016 | MMG LXML | Sepon Sustain Scrubber Project | Removal and Installation of SX47 Electrolyte & Holding Tank's Roof export to Laos | 50 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 21/09/2015 15/04/2016 | MMG LXML | Sepon Sustain Scrubber Project | Supply and Installation Structure steel , Plate work , Pipe , Valve export to Laos | 243 MT |
| 02/07/2015 16/11/2015 | Midrex | SULB 9545-SULFA TREAT VESSELS | Fab Vessel for 4 units dia ID3200 = 2 ea, ID1450 = 1 ea, ID387=1 ea. Export to Al Hidd Bahrain | 79 MT |
| 01/07/2014 30/12/2014 | NPMC | Nui Phao Mining Project | Structural Mechanical and Piping Installation - Vietnam | 300 MT |
| 03/02/2014 31/10/2014 | Midrex | 3855 Gowest HBI Plant Project | Fabricate Top Gas Scrubber 1 unit , Process Gas Compressor 4 units , Reduction Furnace 1 unit for export to TEXAS , USA | 423 MT |
| 07/01/2013 01/05/2013 | Akara Mining Ltd | Modify Leach Tank | Modify structure , Erection pump 6 ea , Fabricate Launder 4 ea/gate (304SS) for local to Pichit Thailand | 10 MT |
| 01/04/2013 01/08/2013 | NPMC | Bismuth Expansion Project | Steel Fabrication & Installation - Vietnam | 650 MT |
| 01/08/2012 28/02/2013 | NPMC | Nui Phao Mining Project - SMP3 (Tungsten) | Structural Mechanical and Piping Installation - Vietnam | 888 MT |
| 01/05/2012 28/12/2012 | NPMC | Nui Phao Mining Project - SMP2 (Tungsten) | Structural Mechanical and Piping Installation - Vietnam | 1,393 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|--|-----------------------|
| 01/03/2012 03/08/2012 | CHMC | Maemoh Mine Stacker Reclaimer | Fabricate stacker and reclaimer for Maemoh Mine Lumpang Thailand | 206 MT |
| 01/12/2010 01/09/2011 | Ausenco | Chatree North Gold Project | Structural Mechanical and Piping Installation to Pichit Thailand | 1,500 MT |
| 01/11/2011 01/07/2011 | Ausenco | Chatree North Gold Project | Sag & Ball Mill Installation to Pichit Thailand | 300 MT |
| 01/09/2010 01/01/2011 | Ausenco | Chatree North Gold Project | Tank Platform Installation to Pichit Thailand | 1,436 MT |
| 01/02/2010 01/10/2010 | SPDG | Sepon Copper Expansion Project (SMP3) | Structural Mechanical and Piping Installation to Laos | 2,100 MT |
| 01/07/2008 01/04/2009 | Khanong Development Group | Sepon Copper Expansion Project (SMP2) | Structural Mechanical and Piping Installation to Laos | 970 MT |
| 01/07/2006 15/04/2007 | Midrex | Shadeed Project Top Gas Scrubber and Purge Gas Tank | Fabricate 9 m. dia. Top gas scrubber and 4.5 dia x 19.2 m. purge gas tank x 3 units for DRI plant , export to Oman | 414 MT |
| 15/01/2005 28/02/2006 | Kobe Steel Ltd. | QASCO Structural steel | Fabricate structure for furnace ,reformer, buildings for direct reduction steel mill - export to Qatar | 6,324 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 01/09/2004 01/03/2005 | SMS Demag | NSM ARP Acid Recovery Plant | Fabricate reactor , oxide bin and cyclone for steel mill - Cholburi Thailand | 114 MT |
| 30/08/2004 15/12/2004 | Kanong Development Group | Sepon Gold Expansion Mechanical installation & piping work | Supply and erect piping work and install equipment for gold plant expansion in Sepon,Laos. | 1,250 MT |
| 15/09/2004 30/12/2004 | KDG Development Group | Sepon Copper Oxygen Plant | Install equipment and alloy piping of oxygen plant for copper processing plant in Sepon, Laos | 800 MT |
| 30/06/2004 30/06/2005 | Claudius Peters AG | Thai Gypsum Gypsum Mill and Cooler | Fab and erect EM59 Gypsum Mill ,Stucco Cooler, duct work and related equipments for gypsum plant - Cholburi Thailand | 320 MT |
| 17/12/2003 31/07/2004 | Khanong Development Group | Sepon Copper Structure | Fabricate mild steel and stainless steel structure for copper refining plant , export to Laos | 1,465 MT |
| 17/12/2003 17/09/2004 | Khanong Development Group | Sepon Copper Stainless Steel Tank | Fab and erect super duplex , duplex and 316L stainless steel tanks - 28 tanks for copper refining plant in Laos | 597 MT |
| 01/11/2003 01/12/2003 | Khanong Development Group | Sepon Gold Mine Pipe Relocation | Steel Fabrication and Installation in Laos | 480 MT |
| 27/05/2003 31/01/2004 | Ishikawa-Harima Heavy Industries | Amran Cement Mill,stacker and various equipments | Fabricate mill,mix bed,stacker ,seperator cyclone,bucket elevator for export to Yemen | 1,175 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|--|-----------------------|
| 12/05/2003 10/11/2003 | Holcim (Vietnam) Ltd. | Thi Vai Grinding Terminal Material Handling package 1 & 4 | Design & manufacturing conveyor line, truck and barge loader for export to Vietnam | 321 MT |
| 19/03/2003 10/06/2003 | Krupp Fodertechnique Kumagai Gumi Co.,Ltd. | Mae Moh Stacker Boom | Fabricate and machine stacker boom for coal mining - Lumpang Thailand | 31 MT |
| 12/02/2003 15/05/2003 | Ausenco Ltd | Sepon Gold Project Polishing Plant | Fab and erect tank , structure and piping for polishing plant of gold mine in Laos | 96 MT |
| 01/01/2003 31/12/2003 | LV Technology | Mill modification - year 2003 | Fabricate mill parts for several project of mill modification , for export to various countries | 50 MT |
| 27/07/2002 15/12/2002 | Ausenco | Sepon Gold Mine Mechanical Installation | Erect mechanical equipments ,structure and piping work for gold mine plant in Laos | 1,650 MT |
| 01/06/2002 14/09/2002 | Ausenco | Sepon Gold Mine Tank erection | Erect chemical tanks for gold processing , site work in Laos | 224 MT |
| 20/05/2002 06/10/2002 | FAM Magdeburg GmbH | Kalimantan Spreader & Tripper Car | Fabricate crawler mounted spreader and rail mounted tripper car for coal mining , export to Indonesia | 300 MT |
| 15/03/2002 24/05/2002 | Claudius Peters Technologies | Sri Lanka Cement Plant Coal Mill type EM65-592 | Fabricate coal mill type EM65- 592 x 1 unit for export to Sri Lanka | 28 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|---|---|-----------------------|
| 01/02/2002 23/05/2002 | Siam Cement Company | Kawong Cement Modificaton | Fabricate steel work to improve pressure drop for equipments in cement plant | 140 MT |
| 01/10/2001 28/12/2001 | LV Technology | Mill modification - year 2001 | Fabricate mill parts for several project of mill modification , for export to various countries | 135 MT |
| 10/12/2000 20/01/2001 | L.V. Technology | Raw Mill Modification | Fabricate raw mill part x 4 units for export | 44 MT |
| 15/12/2000 15/02/2001 | BMH Claudius Peters AG | APMC - Rawang Cooler modification | Fabricate cooler grate support and moving frame ,export to Malaysia | 50 MT |
| 22/08/2000 15/09/2000 | Voest-Alpine Material Handling | Callide Project Counter weight | Fabricate counterweight 116 ton for export to Australia | 116 MT |
| 08/07/1999 30/11/1999 | BMH Claudius Peters BMH Americas Inc. | Two gypsum mills export to USA EM80 Gypsum Mills | Fabricate EM80 Gypsum Mill x 2 units | 136 MT |
| 19/11/1997 15/04/1998 | Krupp Fordertechnik GmbH | CMC Project Apron Feeder Pan | Fabricate apron feed pan of crusher unit for lignite open mining | 102 MT |
| 20/10/1997 18/06/1998 | Siam Cement Public Co., Ltd. | Tungsong 6 Erect dome for limestone storage | Erect dome size 124.5 m dia. X 37.4 m. hight for limestone circular storage in cement plant | 495 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|--------------------------|--|--|---|-----------------------|
| 15/10/1997 15/05/1998 | Siam Cement Company | Tungsong 6 Erect stacker and Reclaimer | Erect stacker and reclaimer total 6 units with capacity up to 1900 tph max for cement plant | 1,049 MT |
| 15/01/1997 15/06/1997 | Siam Cement Company | Tungsong 6 Seperation Cyclones & Receiving Hopper | Fabricate seperation cyclone, hopper for cement plant | 350 MT |
| 25/10/1996 30/06/1997 | Loesche | Tungsong 6 Clinker Mill | Fabricate clinker mill x 1 for cement plant | 198 MT |
| 15/11/1996 15/01/1997 | Siam Cement Company | Kang Koi 2 Erect stacker and reclaimer | Erect stacker and reclaimer for cement plant | 160 MT |
| 21/10/1996 08/05/1997 | Siam Cement Company | Tungsong 6 Bucket Elevator | Fabricate bucket elevator for cement plant | 450 MT |
| 21/10/1996 18/04/1997 | Siam Cement Company | Tungsong 6 Stacker and Reclaimer | Fabricate and erect stacker and reclaimer total 6 Units with capacity up to 1900 tph msx for cement plant | 671 MT |
| 20/08/1996 18/11/1997 | Siam Cement Company | Kang Koi 1 and 2 Stacker and Reclaimer | Erect stacker and reclaimer 150/180 tph for cement plant | 64 MT |
| 15/09/1996 15/04/1997 | Siam Cement Company | Tungsong 6 Electro static precipitator | Fabricate ESP for cement plant | 977 MT |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 15/12/1996 | Siam Cement Company | Tungsong 6 | Fabricate clinker cooler for cement plant | 300 MT |
| 15/03/1997 | | Clinker cooler | | |
| 15/10/1996 | Siam Cement Company | Tungsong 6 | Fabricate structure of preheater tower for cement plant | 2,250 MT |
| 15/04/1997 | | Preheater Tower | | |
| 15/01/1996 | Siam Cement Company | Tung Song 6 | Design,fabricate and erect side tripper for cement plant | 85 MT |
| 15/11/1996 | | Side Tripper | | |
| 15/02/1996 | Loesche | Hon Chong Cement | Fab. clinker mill x 2 for export to Vietnam cement plant | 397 MT |
| 15/11/1996 | | Clinker Mill | | |
| 15/07/1995 | Siam Cement Company | Tung Song 5 | Design,fabricate and erect side tripper for cement plant | 170 MT |
| 15/04/1996 | | Side Tripper | | |
| 15/07/1995 | Siam Cement Company | Lampang 1 | Design,fabricate and erect side tripper for cement plant | 170 MT |
| 15/04/1996 | | Side Tripper | | |
| 15/09/1995 | Siam Cement Company | Tungsong 5 | Fabricate and erect stacker with capacity 1800 tph max and reclaimers 700 tph max for cement plant | 1,172 MT |
| 15/04/1996 | | Fab and Erect stacker and reclaimers | | |
| 15/10/1995 | Siam Cement Company | Lampang | Fabricate and erect stacker and reclaimers for cement plant | 1,172 MT |
| 15/03/1996 | | Fab and Erect stacker and reclaimers | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|--|-----------------------|
| 15/04/1995 | Siam Cement Company | Lampang and Tungsong | Fab steel structure of preheater tower for two units of Cement plant | 3,276 MT |
| 15/07/1995 | | Preheater tower | | |
| 15/05/1994 | Asia Cement Co., Ltd. | Asia Cement 2 | Fab. and erect raw mill, ESP, clinker cooler, conveyor, silo | 7,553 MT |
| 15/12/1996 | | Fab. and erect | | |
| 15/03/1994 | Kumagai Gumi Co.,Ltd. | Mae Moh 12 & 13 | Fab and erect conveyor system | 620 MT |
| 30/11/1995 | | Ash Disposal system | | |
| 09/05/1994 | Siam City Cement Company | Kiln 6 | Fab and erect raw mill hot gas duct for cement plant | 3,776 MT |
| 04/03/1995 | | Raw Mill Hot Gas Duct | | |
| 01/03/1994 | Nippon Conveyor | Mae Moh 4th Lignite | Fab belt conveyor structure and crusher unit | 500 MT |
| 30/09/1994 | | Marubeni | | |
| 25/06/1993 | Kumagai Gumi Co.,Ltd. | Mae Moh Lignite Handling | Fab conveyor frame for lignite handling | 350 MT |
| 15/03/1994 | | Conveyor frame | | |
| 01/06/1993 | Siam Cement Co., Ltd. | Kang Koi 1 and 2 | Fab structure steel of preheater tower for cement plant | 1,180 MT |
| 30/12/1993 | | Preheater tower | | |
| 20/04/1992 | Eglo Engineering Pty, Ltd. | Mae Moh 1st Lignite | Fabricate structure of drive station and belt frame of lignite handling system | 250 MT |
| 03/11/1992 | | Feed table, station and belt frame | | |

| Contract Period | Client Name Main Contractor Owner | Project Name Package Name | Project Description | Amount of Work |
|------------------------|--|--------------------------------------|---|-----------------------|
| 20/07/1991 | Siam Cement Company | Kao Wong 1 | Fab and erect large fan casing | 200 MT |
| 15/03/1992 | | Large Fan casing | | |
| 15/06/1991 | Siam Cement Company | Kao Wong 1 | Fab and erect stacker and reclaimer for cement plant | 850 MT |
| 15/03/1992 | | Stacker and Reclaimer | | |
| 01/05/1991 | Siam Cement Company | Kao Wong 1 | Fab and erect hopper stack, cyclone, CDPS for cement plant | 650 MT |
| 30/01/1992 | | Hopper stack, cyclone and CDPS | | |
| 15/06/1991 | Siam Cement Company | Kao Wong 1 | Fab and erect clinker cooler for cement plant | 700 MT |
| 30/05/1992 | | Clinker cooler | | |
| 15/05/1991 | Siam Cement Company | Kao Wong 1 | Fab and erect overhead crane x 7 units for cement plant | 160 MT |
| 30/01/1992 | | Overhead crane | | |
| 15/11/1990 | Siam City Cement Company | Kiln 5 | Fabricate raw mill and gas duct | 3,500 MT |
| 10/10/1991 | | Gas duct & raw mill | | |
| 01/02/1991 | Siam Cement Company | Kao Wong 1 | Fabricate structural steel of preheater tower and elevator for cement plant | 1,900 MT |
| 30/09/1991 | | Preheater Tower | | |



ANNEX.1 PROJECT EXPERIENCE



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Project Experience List - Installation

| No. | Period | Details of Project | Owner/Client | Location | Industrial | Scope | | | | | | | | | |
|-----|-------------------|---|--------------------------|---|---------------|---------------------|-------------|--------|-----|------------------------|-------|-------------|---------------|--------|-----|
| | | | | | | Supply/ Fabrication | | | | Erection/ Installation | | | | | |
| | | | | | | Stru. | Mech Static | Piping | E&I | Civil | Stru. | Mech Static | Mech Rotating | Piping | E&I |
| 1 | 2018.12 - 2020.10 | Bangchak 3E Phase II (CCR & HCU) Project | BCP/ Hyundai | Bangkok/Thailand | Oil & Gas | | | ✓ | | ✓ | | ✓ | ✓ | ✓ | |
| 2 | 2018.12 - 2019.06 | Install Gas turbine and HRSG Module box for Central Utility Plant Project 4 (CUP-4) | GPSC/CTCI | Asia Estate and Adjacent estate/ Thailand | Power Plant | | | | | | ✓ | ✓ | ✓ | | |
| 3 | 2015.12 - 2018.10 | Nui Phao Tungsten Mining Improvement Project | NPMC | Thai Nguyen/ Vietnam | Chemical | | | | | | ✓ | ✓ | ✓ | ✓ | |
| 4 | 2015.09 - 2018.02 | New Facilities Installation | PTTEP | Kumpangphet/ Thailand | Oil & Gas | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 5 | 2016.01 - 2016.11 | H&R Tank farm Phase II | H&R Chempharm (Thailand) | Chonburi/ Thailand | Oil & Gas | | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 6 | 2015.09 - 2016.07 | Sepon Sustain Scrubber Project | LXML | Sepon/ Laos PDR | Chemical | ✓ | ✓ | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 7 | 2014.11 - 2015.06 | H&R Tank farm Phase I | H&R Chempharm (Thailand) | Chonburi/ Thailand | Oil & Gas | | | ✓ | | ✓ | ✓ | ✓ | ✓ | ✓ | |
| 8 | 2014.06 - 2014.12 | Nui Phao Mining - APT Project | NHTCM | Thai Nguyen/ Vietnam | Chemical | | | ✓ | | | | ✓ | ✓ | ✓ | |
| 9 | 2013.04 - 2013.08 | Nui Phao Tungsten Mining Bismuth Extension | NPMC | Thai Nguyen/ Vietnam | Chemical | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 10 | 2012.08 - 2013.03 | Nui Phao Tungsten Mining SMP package II | NPMC | Thai Nguyen/ Vietnam | Chemical | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 11 | 2012.05 - 2013.02 | Nui Phao Tungsten Mining SMP Package I | NPMC | Thai Nguyen/ Vietnam | Chemical | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 12 | 2011.08 - 2012.07 | AR Boiler Recovery Project | UBE/ METSO | Rayong/ Thailand | Petrochemical | ✓ | | | | | ✓ | ✓ | | ✓ | |
| 13 | 2010.05 - 2011.05 | Gorgon Barrow Island LNG Plant Project | Chevron/ KBR/ BIH | Barrow Island/ Australia | Oil & Gas | | ✓ | | ✓ | | | | | | |
| 14 | 2010.01 - 2011.10 | Chartree North Gold Mine Project | Akara Mining/ Ausenco | Pichit/ Thailand | Chemical | ✓ | ✓ | | | | ✓ | ✓ | ✓ | ✓ | |
| 15 | 2010.02 - 2010.10 | Sepon Copper Expansion SMP3 | LXML/ SPDG | Sepon/ Laos PDR | Chemical | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 16 | 2008.07 - 2009.04 | Sepon Copper Expansion SMP2 | LXML | Sepon/ Laos PDR | Chemical | ✓ | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 17 | 2008.02 - 2008.12 | Bangchak Improvement Project | BCP/ CTCI | Bangkok/Thailand | Oil & Gas | | | ✓ | | | | | | ✓ | |

Project Experience List - Installation

| No. | Period | Details of Project | Owner/Client | Location | Industrial | Scope | | | | | | | | | |
|-----|-------------------|---|----------------------------------|---------------------|-------------|---------------------|-------------|--------|-----|------------------------|-------|-------------|---------------|--------|-----|
| | | | | | | Supply/ Fabrication | | | | Erection/ Installation | | | | | |
| | | | | | | Stru. | Mech Static | Piping | E&I | Civil | Stru. | Mech Static | Mech Rotating | Piping | E&I |
| 18 | 2007.10 - 2008-12 | HMC Propane Dehydrogenation Plant Project | PTT-HMC/ CTCI | Rayong/ Thailand | Oil & Gas | ✓ | ✓ | | | | ✓ | ✓ | | | |
| 19 | 2004.08 - 2005.01 | Sepon Copper Project - Oxygen Plant | LXML/ KDG | Sepon/ Laos PDR | Chemical | | | ✓ | | | ✓ | ✓ | ✓ | ✓ | |
| 20 | 2004.02 - 2004.12 | Sepon Copper Project | LXML/ KDG | Sepon/ Laos PDR | Chemical | | | | | | ✓ | ✓ | ✓ | | |
| 21 | 2001.05 - 2002.02 | Krabi Power Plant 350 MW - FGD System Project | EGAT | Krabi/ Thailand | Power Plant | | | | | | ✓ | ✓ | ✓ | ✓ | |
| 22 | 1999.01 - 1999.08 | Ratchburi Combine Cycle Power plant | EGAT | Ratchburi/ Thailand | Power Plant | | | | | | ✓ | ✓ | ✓ | ✓ | |
| 23 | 1998.07 - 1998.11 | COCO Phase III Project - Hybrid Block 1 & 2- 514 MW | Glow Energy / Kumagai / B&V | Rayong, Thailand | Power Plant | ✓ | | | | | ✓ | ✓ | ✓ | | |
| 24 | 1997.09 - 1998.04 | Bangkok Cogeneration 112 MW Co-Gen Power Plant Project | BCC / Power P PCL / Fluor Daniel | Rayong, Thailand | Power Plant | | | | | | ✓ | ✓ | ✓ | ✓ | |
| 25 | 1995.10 - 1996-09 | TPI Ehtylene Project | TPI / Samsung Engineering | Rayong/ Thailand | Power Plant | | | | | | | ✓ | ✓ | ✓ | |
| 26 | 1993.10 - 2000.09 | Major Overhaul Services for EGAT's power plant (80 - 550 MW plants) | EGAT | Thailand | Power Plant | | | | | | | ✓ | ✓ | | |



ANNEX.1 PROJECT EXPERIENCE



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PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|----------|--------------------------------|--------------|-------|---|-------------|---|----------------|
| 1 | 2005 | 20059001 | Born Heaters Canada ULC | Finned Tube | 120 | 4.500" O.D. SA-106-B (24 Tubes.) 6.625" O.D. SA-106-B (96 Tubes.) | 5.9 m. | 0.105" thick. X 1.000" height. CS Sol. 3.2 fins/in. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 2 | 2005 | 20059002 | Born Heaters Canada ULC | Finned Tube | 70 | 6.625" O.D. SA-106-B | 6.3 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.750" height. CS Sol. 3.0 fins/in. 0.050" thick. X 0.500" height. CS Sol. 2.0 fins/in. | Rust Veto 377T |
| 3 | 2005 | 20059003 | ME Engineering UK | Finned Tube | 474 | 1.660" O.D. SA-106-B | 4.6 m. | 0.050" thick. X 0.625" height. CS Serr. 5.0 fins/in. | Rust Veto 377T |
| 4 | 2005 | 20059004 | Born Heaters Canada ULC | Finned Tube | 148 | 6.625" O.D. SA-106-B | 6.5 m. | 0.105" thick. X 0.750" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 5 | 2005 | 20059005 | Nooter Eriksen | Finned Tube | 1,064 | 2.000" O.D. SA-213-T91 (674 Tubes.) 2.250" O.D. SA-213-T91 (390 Tubes.) | 22.2 m. | 0.047" thick. X 0.625" height. 409-SS Serr. 5.6 fins/in. 0.047" thick. X 0.750" height. 409-SS Serr. 5.6 fins/in. | Rust Veto 377T |
| 6 | 2005 | 20059006 | Foster Wheeler Engineering | Finned Tube | 658 | 3.500" O.D. SA-106-B (468 Tubes.) 3.500" O.D. SA-312-304 (190 Tubes.) | 10.5 m. | 0.050" thick. X 1.000" height. CS Serr. 5.0 fins/in. 0.050" thick. X 0.625" height. CS Serr. 5.0 fins/in. | Rust Veto 377T |
| 7 | 2006 | 20069001 | Asia Energy Eng. | Finned Tube | 10 | 1.500" O.D. SA-192 | 18.9 m. | 0.040" thick. X 0.500" height. CS Sol. 5.6 fins/in. | Rust Veto 377T |
| 8 | 2006 | 20069002 | KTI Corporation | Finned Tube | 112 | 5.563" O.D. SA-312-TP316 | 8.5 m. | 0.105" thick. X 0.750" height. 409-SS Sol. 2.0 fins/in. | Rust Veto 377T |
| 9 | 2006 | 20069003 | Vogt Power International | Finned Tube | 6,366 | 2.000" O.D. SA-213-T91 (396 Tubes.) 2.000" O.D. SA-178-C (532 Tubes.) 1.500" O.D. SA-213-T91 (504 Tubes.) 1.500" O.D. SA-213-T11 (168 Tubes.) 1.500" O.D. SA-178-A (2,378 Tubes.) 1.500" O.D. SA-178-C (2,148 Tubes.) 1.500" O.D. SA-789 (240 Tubes.) | 20.7 m. | 0.050" thick. X 0.625" height. 409-SS Serr. 5.8 fins/in. 0.050" thick. X 0.625" height. CS Serr. 0.050" thick. X 0.500" height. 409-SS Serr. 0.050" thick. X 0.500" height. CS Serr. 0.050" thick. X 0.375" height. 409-SS Sol. 5.3 fins/in. 0.050" thick. X 0.375" height. CS Sol. 3.3 fins/in. | Rust Veto 377T |
| 10 | 2006 | 20069004 | Boustead International Heaters | Finned Tube | 56 | 5.563" O.D. SA-312-TP316L | 5.0 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.500" height. CS Sol. 3.0 fins/in. 0.050" thick. X 0.375" height. CS Sol. 2.0 fins/in. | Rust Veto 377T |
| 11 | 2006 | 20069006 | Boustead International Heaters | Finned Tube | 1,240 | 6.625" O.D. SA-106-B (120 Tubes.) 6.625" O.D. SA-312-304H (28 Tubes.) 4.500" O.D. SA-106-B (216 Tubes.) 2.875" O.D. SA-106-B (576 Tubes.) 2.875" O.D. SA-335-P11 (300 Tubes.) | 9.9 m. | 0.050" thick. X 0.750" height. CS Serr. 5.0 fins/in. 0.050" thick. X 0.750" height. 409-SS Serr. 5.0 fins/in. 0.050" thick. X 0.750" height. 304-SS Serr. 5.0 fins/in. 0.050" thick. X 0.375" height. CS Serr. 5.0 fins/in. | Rust Veto 377T |
| 12 | 2006 | 20069007 | Boustead International Heaters | Finned Tube | 216 | 6.625" O.D. SA-106-B | 10.6 m. | 0.050" thick. X 1.000" height. CS Serr. 5.0 fins/in. 0.050" thick. X 0.750" height. CS Serr. 5.0 fins/in. 0.050" thick. X 0.500" height. CS Serr. 4.0 fins/in. | Rust Veto 377T |
| 13 | 2006 | 20069008 | Boustead International Heaters | Finned Tube | 2,427 | 1.900" O.D. SA-106-B (610 Tubes.) 1.900" O.D. SA-312-304H (588 Tubes.) 1.660" O.D. SA-106-B (225 Tubes.) 1.660" O.D. SA-312-304H (1,004 Tubes.) | 8.2 m. | 0.059" thick. X 0.590" height. CS Serr. 4.2 fins/in. 0.059" thick. X 0.590" height. 304-SS Serr. 4.2 fins/in. 0.059" thick. X 0.500" height. CS Serr. 4.2 fins/in. 0.059" thick. X 0.500" height. 304-SS Serr. fins/in. | Rust Veto 377T |
| 14 | 2006 | 20069009 | Alloy Metals Co.,Ltd.(AMC) | Finned Tube | 50 | 2.000" O.D. SA-178-A | 6.2 m. | 0.060" thick. X 0.750" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 15 | 2006 | 20069010 | NEM bv | Finned Tube | 1,112 | 1.500" O.D. SA-213-T22 (152 Tubes.) 1.500" O.D. SA-192 (600 Tubes.) 1.050" O.D. SA-192 (360 Tubes.) | 12.7 m. | 0.050" thick. X 0.500" height. CS Serr. 5.0 fins/in. 0.050" thick. X 0.500" height. 409-SS Sol. 2.8 fins/in. 0.050" thick. X 0.236" height. CS Sol. 1.7 fins/in. 0.050" thick. X 0.236" height. 409-SS Sol. 1.4 fins/in. | Rust Veto 377T |
| 16 | 2006 | 20069013 | Petro-Chem Development Co.,In | Finned Tube | 390 | 8.625" O.D. SA-106-B (94 Tubes.) 8.625" O.D. SA-335-P9 (32 Tubes.) 6.625" O.D. SA-106-B (32 Tubes.) 6.625" O.D. SA-335-P9 (192 Tubes.) 6.625" O.D. SA-312-TP321H (40 Tubes.) | 10.9 m. | 0.060" thick. X 1.000" height. 409-SS Sol. 0.050" thick. X 1.000" height. 409-SS Sol. 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 0.750" height. 409-SS Sol. 0.050" thick. X 0.750" height. CS Sol. 0.050" thick. X 0.500" height. 409-SS Sol. | Rust Veto 377T |
| 17 | 2006 | 20069014 | Petro-Chem Development Co.,In | Finned Tube | 88 | 8.625" O.D. SA-106-B (32 Tubes.) 6.625" O.D. SA-106-B (56 Tubes.) | 7.2 m. | 0.050" thick. X 1.000" height. 409-SS Sol. | Rust Veto 377T |
| 18 | 2006 | 20069015 | Heurtay Petrochem | Finned Tube | 498 | 10.750" O.D. SA-312-347H (150 Tubes.) 8.625" O.D. SA-312-347H (96 Tubes.) 6.625" O.D. SA-312-347H (36 Tubes.) 6.625" O.D. SA-335-P9 (216 Tubes.) | 10.8 m. | 0.060" thick. X 1.000" height. CS Sol. 0.060" thick. X 0.500" height. 409-SS Sol. 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 1.000" height. 409-SS Sol. 0.050" thick. X 0.750" height. 409-SS Sol. | Rust Veto 377T |
| 19 | 2006 | 20069016 | Petro-Chem Development Co.,In | Finned Tube | 660 | 8.625" O.D. SA-106-B (96 Tubes.) 6.625" O.D. SA-106-B (204 Tubes.) 6.625" O.D. SA-335-P11 (360 Tubes.) | 11.9 m. | 0.105" thick. X 0.750" height. CS Sol. 0.105" thick. X 0.500" height. CS Sol. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 20 | 2006 | 20069017 | FURNACE ENGINEERING INC. | Finned Tube | 48 | 6.625" O.D. SA-106-B | 8.4 m. | 0.050" thick. X 1.875" height. CS Sol. | Rust Veto 377T |
| 21 | 2006 | 20069018 | Technip KTI SpA | Finned Tube | 1,152 | 6.625" O.D. SA-106-B (180 Tubes.) 5.563" O.D. SA-106-B (72 Tubes.) 4.500" O.D. SA-106-B (780 Tubes.) 4.500" O.D. SA-335-P11 (120 Tubes.) | 12.3 m. | 0.098" thick. X 0.750" height. CS Sol. 0.098" thick. X 0.590" height. CS Sol. 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 0.750" height. CS Sol. 0.050" thick. X 0.598" height. CS Sol. | Rust Veto 377T |
| 22 | 2006 | 20069019 | Foster Wheeler Engineering | Finned Tube | 674 | 5.563" O.D. SA-335-P11 (97 Tubes.) 4.500" O.D. SA-106-B (577 Tubes.) | 11.0 m. | 0.050" thick. X 1.000" height. CS Serr. 0.050" thick. X 0.750" height. 409-SS Serr. 0.050" thick. X 0.500" height. 409-SS Serr. | Rust Veto 377T |
| 23 | 2006 | 20069020 | KTI Corporation | Finned Tube | 56 | 4.500" O.D. SA-335-P9 | 8.8 m. | 0.050" thick. X 1.000" height. 409-SS Sol. 4.0 fins/in. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|----------|----------------------------------|--------------------------------|--------|---|-------------|---|----------------|
| 24 | 2006 | 20069021 | Foster Wheeler Engineering | Finned Tube | 196 | 8.625" O.D. SA-106-B (167 Tubes.) 8.625" O.D. SA-312-321 (29 Tubes.) | 7.2 m. | 0.050" thick. X 1.000" height. CS Sol. 4.0 fins/in. 0.050" thick. X 0.750" height. 409-SS Sol. 4.0 fins/in. 0.098" thick. X 1.000" height. 409-SS Sol. | Rust Veto 377T |
| 25 | 2006 | 20069022 | Petro-Chem Development Co.,In | Finned Tube | 10 | 6.625" O.D. SA-335-P11 | 4.2 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 26 | 2006 | 20069023 | Kirchner Italia S.p.A. | Finned Tube | 408 | 4.500" O.D. SA-106-B (360 Tubes.) 4.500" O.D. SA-335-P22 (48 Tubes.) | 19.4 m. | 0.050" thick. X 0.750" height. CS Sol. 0.050" thick. X 1.000" height. 409-SS Sol. | Rust Veto 377T |
| 27 | 2006 | 20069024 | ITT S.P.A. | Finned Tube | 72 | 4.500" O.D. SA-335-P22 | 12.0 m. | 0.050" thick. X 0.750" height. 409-SS Sol. | Rust Veto 377T |
| 28 | 2006 | 20069026 | J.J. Advanced | Finned Tube | 250 | 2.000" O.D. SA-179 | 6.2 m. | 0.059" thick. X 0.750" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 29 | 2006 | 20069027 | Boustead International Heaters. | Finned Tube | 108 | 6.625" O.D. SA-106-B | 10.5 m. | 0.050" thick. X 0.500" height. CS Sol. 0.050" thick. X 0.826" height. CS Sol. 0.050" thick. X 1.000" height. CS Sol. | Rust Veto 377T |
| 30 | 2006 | 20069028 | Born Heaters Canada ULC | Finned Tube | 102 | 4.500" O.D. SA-335-P22 | 13.4 m. | 0.060" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.098" thick. X 0.750" height. 409-SS Sol. 3.0 fins/in. 0.098" thick. X 0.750" height. CS Sol. 2.0 fins/in. | Rust Veto 377T |
| 31 | 2006 | 20069029 | Petro-Chem Development Co.,In | Finned Tube | 40 | 8.625" O.D. SA-335-P9 | 7.4 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 32 | 2006 | 20069032 | Vogt Power International | Finned Tube | 18,655 | 1.500" O.D. SA-192 (7,243 Tubes.) 1.500" O.D. SA-210-A1 (6,272 Tubes.) 1.500" O.D. SA-213-T22 (402 Tubes.) 1.500" O.D. SA-213-T91 (2,112 Tubes.) 2.000" O.D. SA-213-T22 (498 Tubes.) 2.000" O.D. SA-213-T91 (2,128 Tubes.) | 20.9 m. | 0.040" thick. X 0.625" height. 409-SS Serr. 6.3 fins/in. 0.040" thick. X 0.625" height. CS Serr. 6.0 fins/in. 0.040" thick. X 0.500" height. 409-SS Serr. 6.9 fins/in. 0.040" thick. X 0.500" height. CS Serr. 6.0 fins/in. 0.040" thick. X 0.500" height. 409-SS Sol. 6.9 fins/in. 0.040" thick. X 0.375" height. 409-SS Serr. 4.4 fins/in. | Rust Veto 377T |
| 33 | 2006 | 20069033 | Petro-Chem Development Co.,In | Finned Tube | 336 | 4.500" O.D. SA-106-B (288 Tubes.) 4.500" O.D. SA-335-P11 (48 Tubes.) | 12.7 m. | 0.050" thick. X 0.750" height. 409-SS Sol. 5.0 fins/in. 0.050" thick. X 0.500" height. 409-SS Sol. 3.0 fins/in. | Rust Veto 377T |
| 34 | 2006 | 20069034 | Boustead International Heaters | Finned Tube | 226 | 6.625" O.D. SA-335-P11 | 12.2 m. | 0.059" thick. X 1.000" height. CS Sol. 4.0 fins/in. 0.059" thick. X 1.000" height. 409-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 35 | 2006 | 20069035 | ABB Lummus Heat Transfer | Finned Tube | 2,980 | 6.625" O.D. SA-312-304H (168 Tubes.) 6.625" O.D. SA-106-B (420 Tubes.) 6.625" O.D. SA-335-P22 (40 Tubes.) 2.874" O.D. SA-106-B (1,680 Tubes.) 2.874" O.D. SA-335-P22 (336 Tubes.) 2.874" O.D. SA-335-P91 (336 Tubes.) | 11.8 m. | 0.059" thick. X 0.500" height. CS Sol. 4.2 fins/in. 0.059" thick. X 0.500" height. 409-SS Sol. 4.2 fins/in. 0.059" thick. X 0.500" height. 304-SS Sol. 3.0 fins/in. 0.059" thick. X 0.750" height. CS Sol. 4.2 fins/in. | Rust Veto 377T |
| 36 | 2007 | 20079002 | Boustead International Heaters | Finned Tube | 48 | 6.625" O.D. SA-106-B | 12.0 m. | 0.050" thick. X 0.750" height. CS Serr. 3.0 fins/in. 0.050" thick. X 1.000" height. CS Serr. 5.0 fins/in. | Rust Veto 377T |
| 37 | 2007 | 20079006 | Petro-Chem Development Co.,In | Finned Tube | 976 | 8.625" O.D. SA-106-B (400 Tubes.) 5.563" O.D. SA-106-B (576 Tubes.) | 6.7 m. | 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 1.000" height. 409-SS Sol. 0.050" thick. X 0.500" height. CS Sol. | Rust Veto 377T |
| 38 | 2007 | 20079007 | KTI Corporation | Finned Tube | 1,208 | 4.500" O.D. SA-335-P22 (696 Tubes.) 3.500" O.D. SA-106-B (512 Tubes.) | 10.7 m. | 0.060" thick. X 0.500" height. 409-SS Sol. 0.060" thick. X 0.625" height. CS Sol. | Rust Veto 377T |
| 39 | 2007 | 20079008 | Petro-Chem Development Co.,In | Finned Tube | 92 | 5.563" O.D. SA-106-B (64 Tubes.) 6.625" O.D. SA-106-B (28 Tubes.) | 5.8 m. | 0.050" thick. X 1.000" height. 409-SS Sol. | Rust Veto 377T |
| 40 | 2007 | 20079009 | Boustead International Heaters. | Finned Tube | 72 | 6.625" O.D. SA-106-B | 5.4 m. | 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 0.750" height. CS Sol. 0.050" thick. X 0.500" height. CS Sol. | Rust Veto 377T |
| 41 | 2007 | 20079010 | Boustead International Heaters. | Finned Tube | 148 | 5.563" O.D. SA-335-P9 (128 Tubes.) 4.500" O.D. SA-106-B (20 Tubes.) | 10.1 m. | 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 0.500" height. 409-SS Sol. | Rust Veto 377T |
| 42 | 2007 | 20079011 | Boustead International Heaters. | Finned Tube | 109 | 6.625" O.D. SA-106-B | 12.0 m. | 0.050" thick. X 1.000" height. CS Sol. 0.050" thick. X 0.625" height. CS Sol. 0.050" thick. X 0.500" height. CS Sol. | Rust Veto 377T |
| 43 | 2007 | 20079012 | KTI Corporation | Finned Tube | 232 | 5.563" O.D. SA-106-B | 10.2 m. | 0.050" thick. X 1.000" height. CS Sol. | Rust Veto 377T |
| 44 | 2007 | 20079014 | Boustead International Heaters. | Finned Tube | 98 | 1.900" O.D. SA-106-B | 6.0 m. | 0.059" thick. X 0.591" height. CS Serr. | Rust Veto 377T |
| 45 | 2008 | J-F1001 | Austrian Energy & Environment | Sino Iron Project C80089 | 4,148 | 1.500" O.D. SA-213-T22 (476 Tubes.) 1.500" O.D. SA-210-A1 (3,672 Tubes.) | 13.8 m. | 0.039" thick. X 0.512" height. 409-SS Serr. 6.6 fins/in. 0.039" thick. X 0.630" height. 409-SS Serr. 6.6 fins/in. 0.039" thick. X 0.630" height. CS Serr. 6.6 fins/in. | Rust Veto 377T |
| 46 | 2008 | J-F1003 | Vogt Power International | Connectiv | 17,370 | 2.000" O.D. SA-210-A1 (486 Tubes.) 1.500" O.D. SA-213-T22 (594 Tubes.) 1.500" O.D. SA-213-T11 (1,188 Tubes.) 1.500" O.D. SA-210-A1 (15,102 Tubes.) | 14.0 m. | 0.040" thick. X 0.500" height. 409-SS Sol. 7.2 fins/in. 0.040" thick. X 0.625" height. CS Serr. 7.3 fins/in. | Rust Veto 377T |
| 47 | 2008 | J-F1004 | Foster Wheeler Service Thailand | Foster Wheeler | 510 | 1.500" O.D. SA-213-T22 | 14.5 m. | 0.039" thick. X 0.530" height. CS Serr. 6.3 fins/in. | Rust Veto 377T |
| 48 | 2008 | J-F1005 | Kinetics Technology Intenational | Motiva Crude Expansion Project | 72 | 8.625" O.D. SA-335-P9 (48 Tubes.) | 15.5 m. | 0.050" thick. X 0.750" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name Corporation | Project Name Finned Tube | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|--|--|--------|---|---|---|----------------|
| | | | | | | | | | |
| 49 | 2008 | J-F1007 | Tulsa Heatees Inc. | Tulsa Heaters Inc./WHRU | 384 | 6.625" O.D. SA-106-B (24 Tubes.) 3.500" O.D. SA-106-B | 7.4 m. | 0.050" thick. X 1.000" height. CS 5.0 fins/in. 0.075" thick. X 0.750" height. CS Serr. 4.5 fins/in. 0.075" thick. X 0.750" height. CS Serr. 3.0 fins/in. | Rust Veto 377T |
| 50 | 2009 | J-F1006 | Foster Wheeler Service Thailand | Pacific Corp - ECONOMIZER | 15,723 | 1.750" O.D. SA-210-A1 | 7.8 m. | 0.060" thick. X 0.750" height. CS Sol. 2.4 fins/in. | Rust Veto 377T |
| 51 | 2009 | J-F1008 | Vogt Power International | Richmond County/17442 | 19,696 | 2.250" O.D. SA-213-T91 (304 Tubes.) 2.250" O.D. SA-213-T22 (304 Tubes.) 2.000" O.D. SA-213-T91 (608 Tubes.) 2.000" O.D. SA-213-T22 (352 Tubes.) 1.500" O.D. SA-213-T91 (1,056 Tubes.) 1.500" O.D. SA-210-C (17,072 Tubes.) | 20.5 m. | 0.040" thick. X 0.500" height. 409-SS Sol. 3.1 fins/in. 0.040" thick. X 0.500" height. 409-SS Serr. 6.9 fins/in. 0.040" thick. X 0.500" height. CS Serr. 6.9 fins/in. 0.040" thick. X 0.375" height. 409-SS Serr. 4.5 fins/in. 0.040" thick. X 0.375" height. CS Serr. 4.0 fins/in. | Rust Veto 377T |
| 52 | 2009 | J-F1009 | Vogt Power International | Cane Island/17443 | 6,366 | 2.000" O.D. SA-213-T91 (396 Tubes.) 2.000" O.D. SA-178-C (532 Tubes.) 1.500" O.D. SA-213-T91 (504 Tubes.) 1.500" O.D. SA-213-T22 (168 Tubes.) 1.500" O.D. SA-178-A (2,618 Tubes.) 1.500" O.D. SA-178-C (2,148 Tubes.) | 20.5 m. | 0.050" thick. X 0.625" height. 409-SS Serr. 5.0 fins/in. 0.050" thick. X 0.625" height. CS Serr. 6.0 fins/in. 0.050" thick. X 0.500" height. 409-SS Sol. 4.8 fins/in. 0.050" thick. X 0.500" height. 409-SS Serr. 6.0 fins/in. 0.050" thick. X 0.500" height. CS Serr. 6.0 fins/in. 0.050" thick. X 0.375" height. 409-SS Sol. 6.0 fins/in. 0.050" thick. X 0.375" height. CS Sol. 6.0 fins/in. | Rust Veto 377T |
| 53 | 2009 | J-F1010 | Selas Fluid Processing Corporation (SFPC) | Petrologistics Finned Tube | 162 | 4.500" O.D. SA-106-B (90 Tubes.) 6.625" O.D. SA-335-P11 (72 Tubes.) | 13.8 m. | 0.050" thick. X 1.000" height. CS Serr. 5.0 fins/in. 0.050" thick. X 1.000" height. 409-SS Serr. 5.0 fins/in. 0.050" thick. X 1.000" height. 304-SS Serr. 5.0 fins/in. | Rust Veto 377T |
| 54 | 2009 | J-F1011 | Petro-Chem Development Co.,In | F-08-1951 | 40 | 4.500" O.D. SA-335-P9 | 9.8 m. | 0.105" thick. X 0.750" height. 409-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 55 | 2009 | J-F1012 | Boustead International Heaters. | 600-240-03342 WHRU | 640 | 1.900" O.D. SA-106-B (96 Tubes.) 1.660" O.D. SA-106-B (544 Tubes.) | 7.7 m. | 0.050" thick. X 0.275" height. CS Sol. 3.5 fins/in. 0.050" thick. X 0.750" height. CS Serr. 5.0 fins/in. | Rust Veto 377T |
| 56 | 2009 | J-F1013 | Tulsa Heatees Inc. | Tulsa Heaters Inc. | 102 | 4.000" O.D. SA-106-B (70 Tubes.) 6.625" O.D. SA-106-B (32 Tubes.) | 7.5 m. | 0.050" thick. X 0.750" height. CS Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 57 | 2009 | J-F1014 | Boustead International Heaters. | WHRU'S Petrobras P56 | 19 | 1.660" O.D. SA-213-T11 | 4.8 m. | 0.050" thick. X 0.500" height. 409-SS Serr. 5.0 fins/in. | Rust Veto 377T |
| 58 | 2009 | J-F1015 | Born Heaters Canada ULC | U-9102 Hot Oil Heater | 8 | 6.625" O.D. SA-106-B | 5.9 m. | 0.105" thick. X 0.750" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 59 | 2009 | J-F1016 | German-Thai Boiler Engineering Cooperation Ltd. | Finned Tube for Thai Oil Project | 920 | 1.500" O.D. SA-192 | 11.8 m. | 0.049" thick. X 0.630" height. CS Serr. 5.1 fins/in. | Rust Veto 377T |
| 60 | 2009 | J-F1017 | Kirchner Italia S.p.A. | GNL 32-B5441 | 72 | 6.625" O.D. SA-106-B | 12.6 m. | 0.059" thick. X 0.984" height. 409-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 61 | 2009 | J-F1019 | Boustead International Heaters. | Darwin LNG -Australia (609/240) | 1,754 | 1.660" O.D. SA-355-P22 (220 Tubes) 1.900" O.D. SA-355-P22 (1,308 Tubes) 1.900" O.D. SA-312-TP304 (226 Tubes) | 10.0 m. | 0.050" thick. X 0.500" height. 409-SS Serr. 6.0 fins/in. | Rust Veto 377T |
| 62 | 2009 | J-F1020 | FURNACE ENGINEERING INC. | Abu Dhabi Oil /H-120 | 48 | 4.500" O.D. JIS G3467 STF410 | 8.7 m. | 0.050" thick. X 0.750" height. CS Sol. 4.0 fins/in. | Rust Veto 377T |
| 63 | 2009 | J-F1021 | FURNACE ENGINEERING INC. | 1700 Procon/BPC.LTE-HDT PJ | 28 | 6.625" O.D. SA-312-TP347H | 4.7 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 64 | 2009 | J-F1022 | Boustead International Heaters. | 610/240 WHRU 18-ML-02 | 628 | 2.375" O.D. SA-106-B | 7.8 m. | 0.051" thick. X 0.630" height. CS Sol. 4.0 fins/in. 0.051" thick. X 0.750" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 65 | 2010 | J-F1023 | FURNACE ENGINEERING INC. | AR4 PJ - IRAN | 60 | 6.625" O.D. SA-312-TP321 | 8.9 m. | 0.050" thick. X 1.000" height. 304-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 66 | 2010 | J-F1018 | Kirchner Italia S.p.A. | Esfahan-B5008 | 52 | 5.563" O.D. SA-213-TP321H (20 Tubes) 6.625" O.D. SA-213-TP347H (32 Tubes) | 4.7 m. 14.0 m. | 0.059" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 67 | 2010 | J-F1024 | Vogt Power International | IRPC Project | 10,272 | 1.500" O.D. SA-213-T22 (384 Tubes) 1.500" O.D. SA-213-T11 (384 Tubes) 1.500" O.D. SA-210-A1 (9,504 Tubes) | 12.6 m. | 0.040" thick. X 0.375" height. 409-SS Sol. 5.0 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. | Rust Veto 377T |
| 68 | 2010 | J-F1025 | Boustead International Heaters. | 614-240 Regen Gas & Hot oil Heater | 330 | 5.563" O.D. SA-106-B (120 Tubes) 6.625" O.D. SA-106-B (210 Tubes) | 6.6 m. | 0.059" thick. X 0.630" height. CS Sol. 3.0 fins/in. 0.059" thick. X 0.630" height. CS Serr. 3.0 fins/in. 0.059" thick. X 0.984" height. CS Sol. 3.0 fins/in. 0.059" thick. X 0.984" height. CS Serr. 3.0 fins/in. | Rust Veto 377T |
| 69 | 2010 | J-F1026 | Petro-Chem Development Co.,In | F-09-1968 (Manglore - India) | 23 | 8.625" O.D. SA-312-TP321 | 7.4 m. | 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 70 | 2010 | J-F1027 | Boustead International Heaters. | 616-240 Gorgon / Barrow Island | 180 | 6.625" O.D. SA-106-B | 7.3 m. | 0.059" thick. X 1.000" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 71 | 2010 | J-F1028 | Petro-Chem Development Co.,In | 1550F1-08 (F-09-1973) Hexanediol (Rayong) | 32 | 6.625" O.D. SA-106-B | 6.3 m. | 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. | Rust Veto 377T |
| 72 | 2010 | J-F1029 | Lotus Hitemp Metals Co.,Ltd. | Glow A037-12-09 | 513 | 1.500" O.D. SA-213-T22 | 14.9 m. | 0.039" thick. X 0.530" height. CS Serr. 6.3 fins/in. | Rust Veto 377T |
| 73 | 2010 | J-F1030 | Boustead International Heaters. | 619-240 | 1,896 | 6.625" O.D. SA-106-B (520 Tubes) 4.500" O.D. SA-106-B (72 Tubes) 4.000" O.D. SA-335-P22 (120 Tubes) 3.500" O.D. SA-106-B (1,088 Tubes) | 10.4 m. 7.7 m. 11.2 m. 11.0 m. | 0.059" thick. X 1.000" height. 304-SS Sol. 5.0 fins/in. 0.059" thick. X 0.500" height. 304-SS Sol. 5.0 fins/in. 0.059" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.059" thick. X 0.750" height. CS Sol. 4.0 fins/in. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|---|-----------------------|--------|---|---|--|----------------|
| 73 | 2010 | J-F1030 | Boustead International Heaters. | 619-240 | | 3.500" O.D. SA-335-P22 (96 Tubes) | 11.0 m. | 0.059" thick. X 0.500" height. CS Sol. 5.0 fins/in. 0.059" thick. X 0.295" height. CS Sol. 2.0 fins/in. 0.051" thick. X 1.000" height. 409-SS Sol. 5.0 fins/in. 0.051" thick. X 0.630" height. 409-SS Sol. 5.0 fins/in. 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.750" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.375" height. CS Sol. 2.0 fins/in. | Rust Veto 377T |
| 74 | 2010 | J-F1031 | CMI-THAI Service Co.,Ltd. | Thai oil Project | 75 | 4.500" O.D. SA-106-B (60 Tubes) 6.625" O.D. SA-106-B (15 Tubes) | 13.1 m. | 0.050" thick. X 0.512" height. CS Sol. 4.3 fins/in. 0.050" thick. X 0.874" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 75 | 2010 | J-F1033 | Kinetics Technology Intenational Corporation | For Thai Oil | 14 | 5.563" O.D. SA-312-TP347 | 3.0 m. | 0.050" thick. X 1.000" height. CS Sol. 4.0 fins/in. 0.050" thick. X 1.000" height. 409-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 76 | 2010 | J-F1034 | Boustead International Heaters. | 624/240 | 756 | 1.660" O.D. SA-355-P11 | 3.5 m. | 0.051" thick. X 0.630" height. 409-SS Serr. 5.0 fins/in. | Rust Veto 377T |
| 77 | 2010 | J-F1035 | Vogt Power International | VPI-17451(EI Centro) | 4,776 | 1.500" O.D. SA-213-T91 (280 Tubes) 1.500" O.D. SA-213-T11 (140 Tubes) 1.500" O.D. SA-210-C (1,980 Tubes) 1.500" O.D. SA-192 (2,376 Tubes) | 15.6 m. | 0.040" thick. X 0.375" height. 409-SS Sol. 5.5 fins/in. 0.040" thick. X 0.500" height. 409-SS Serr. 7.3 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. | Rust Veto 377T |
| 78 | 2010 | J-F1036 | Boustead International Heaters. | 623/240 | 105 | 6.625" O.D. SA-106-B | 6.5 m. | 0.059" thick. X 0.630" height. CS Sol. 3.0 fins/in. 0.059" thick. X 0.630" height. CS Serr. 3.0 fins/in. 0.059" thick. X 0.984" height. CS Sol. 3.0 fins/in. 0.059" thick. X 0.984" height. CS Serr. 3.0 fins/in. | Rust Veto 377T |
| 79 | 2010 | J-F1037 | Petro-Chem Development Co.,In | F-10-1980 | 1,408 | 4.500" O.D. SA-106-B | 9.2 m. | 0.051" thick. X 0.630" height. 409-SS Sol. 3.0 fins/in. 0.051" thick. X 0.748" height. 409-SS Sol. 3.5 fins/in. 0.051" thick. X 0.748" height. CS Sol. 4.0 fins/in. | Rust Veto 377T |
| 80 | 2010 | J-F1040 | Lummus Technology Heat Transfer | 492/P253025 | 192 | 5.563" O.D. SA-335-P9 | 9.1 m. | 0.051" thick. X 0.752" height. 11-13Cr. Sol. 4.0 fins/in. | Rust Veto 377T |
| 81 | 2011 | J-F1032 | Kinetics Technology Intenational Corporation | KJ1023 Finned Tube | 632 | 4.500" O.D. SA-106-B (296 Tubes) 4.500" O.D. SA-213-TP304 (32 Tubes) 4.500" O.D. SA-312-TP304 (16 Tubes) 4.500" O.D. SA-335-P22 (48 Tubes) 5.563" O.D. SA-213-TP304H (48 Tubes) 5.563" O.D. SA-213-TP347 (56 Tubes) 5.563" O.D. SA-312-TP304H (96 Tubes) 6.625" O.D. SA-335-P11 (40 Tubes) | 9.9 m. 10.2 m. 10.5 m. 10.2 m. 8.3 m. 11.5 m. 11.5 m. 7.2 m. | 0.051" thick. X 0.874" height. CS Sol. 5.0 fins/in. 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 1.000" height. 11-13Cr. Sol. 5.0 fins/in. 0.051" thick. X 0.250" height. 18Cr-8Ni Sol. 2.2 fins/in. 0.051" thick. X 0.500" height. 18Cr-8Ni Sol. 4.4 fins/in. 0.051" thick. X 0.626" height. 18Cr-8Ni Sol. 2.8 fins/in. 0.051" thick. X 0.750" height. 18Cr-8Ni Sol. 2.9 fins/in. 0.051" thick. X 1.000" height. 18Cr-8Ni Sol. 5.0 fins/in. | Rust Veto 377T |
| 82 | 2011 | J-F1038 | Selas Fluid Processing Corporation (SFPC) | Jubail - Convection | 398 | 4.000" O.D. SA-335-P11 (80 Tubes) 4.500" O.D. SA-335-P11 (60 Tubes) 5.563" O.D. SA-312-TP321 (60 Tubes) 6.625" O.D. SA-335-P9 (168 Tubes) 8.625" O.D. SA-376-TP347H (30 Tubes) | 6.2 m. 7.1 m. 4.5 m. 7.6 m. 8.2 m. | 0.050" thick. X 0.984" height. 11-13Cr. Sol. 5.0 fins/in. 0.098" thick. X 0.748" height. CS Sol. 3.0 fins/in. 0.098" thick. X 0.748" height. 11-13Cr. Sol. 3.0 fins/in. 0.050" thick. X 1.000" height. 11-13Cr. Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.750" height. 11-13Cr. Sol. 5.0 fins/in. 0.098" thick. X 0.500" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 83 | 2011 | J-F1039 | Petro-Chem Development Co.,In | F101990-05 | 28 | 6.625" O.D. SA-312-TP347H | 5.0 m. | 0.100" thick. X 1.000" height. 304-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 84 | 2011 | J-F1041 | Boustead International Heaters. | 628-240 | 480 | 1.660" O.D. SA-106-B | 3.9 m. | 0.051" thick. X 0.256" height. CS Sol. 4.0 fins/in. 0.051" thick. X 0.630" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 85 | 2011 | J-F1042 | Vogt Power International | Amata | 5,460 | 1.500" O.D. SA-178-A (5,112 Tubes) 1.500" O.D. SA-213-T11 (116 Tubes) 1.500" O.D. SA-213-T22 (232 Tubes) | 15.7 m. | 0.040" thick. X 0.375" height. CS Sol. 7.3 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. 0.040" thick. X 0.375" height. 409-SS Sol. 6.8 fins/in. 0.040" thick. X 0.500" height. 409-SS Sol. 7.3 fins/in. | Rust Veto 377T |
| 86 | 2011 | J-F1043 | Boustead International Heaters. | 629-240 | 3,360 | 1.660" O.D. SA-355-P22 | 5.0 m. | 0.051" thick. X 0.492" height. 409-SS Serr. 5.1 fins/in. | Rust Veto 377T |
| 87 | 2011 | J-F1044 | Petro-Chem Development Co.,In | F-10-1995-1996 | 62 | 4.500" O.D. SA-106-B (32 Tubes) 6.625" O.D. SA-106-B (30 Tubes) | 6.8 m. | 0.051" thick. X 0.752" height. CS Sol. 3.5 fins/in. | Rust Veto 377T |
| 88 | 2011 | J-F1045 | Petro-Chem Development Co.,In | F-10-1991-0510 | 756 | 4.500" O.D. SA-106-B (648 Tubes) 4.500" O.D. SA-335-P22 (108 Tubes) | 8.9 m. | 0.050" thick. X 0.750" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.500" height. 11-13Cr. Sol. 3.0 fins/in. | Rust Veto 377T |
| 89 | 2011 | J-F1046 | Electricity Generating Authority of Thailand (EGAT) | Namphong project | 13,420 | 1.250" O.D. SA-192 (10,280 Tubes) 1.500" O.D. SA-192 (3,140 Tubes) | 15.0 m. 15.0 m. | 0.031" thick. X 0.394" height. CS Sol. 5.0 fins/in. 0.031" thick. X 0.472" height. CS Sol. 3.5 fins/in. | Rust Veto 377T |
| 90 | 2011 | J-F1047 | EMCO (Thailand) | TKT30643 | 824 | 4.500" O.D. SA-106-B (384 Tubes) 4.500" O.D. SA-355-P22 (152 Tubes) 4.500" O.D. SA-312-TP347H (288 Tubes) | 12.9 m. | 0.051" thick. X 0.787" height. 11-13Cr. Sol. 5.0 fins/in. 0.051" thick. X 0.984" height. 18Cr-8Ni. Sol. 5.0 fins/in. 0.051" thick. X 0.512" height. 18Cr-8Ni. Sol. 5.0 fins/in. | Rust Veto 377T |
| 91 | 2011 | J-F1048 | Lummus Technology Heat Transfer | 6-2571-1120 | 1,253 | 6.625" O.D. SA-312-TP304H (60 Tubes) 6.625" O.D. SA-335-P5 (45 Tubes) 6.625" O.D. SA-335-P22 (60 Tubes) 5.563" O.D. SA-312-TP304H (24 Tubes) 5.563" O.D. SA-335-P5 (36 Tubes) 5.563" O.D. SA-106-B (150 Tubes) 4.000" O.D. SA-106-B (54 Tubes) 3.500" O.D. SA-106-B (120 Tubes) | 12.2 m. 12.9 m. 12.0 m. 8.9 m. 11.9 m. 12.9 m. 11.9 m. 12.9 m. | 0.051" thick. X 0.752" height. 18Cr-8Ni. Sol. 5.0 fins/in. 0.051" thick. X 0.752" height. 11-13Cr. Sol. 5.0 fins/in. 0.051" thick. X 0.752" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.500" height. 18Cr-8Ni. Sol. 4.0 fins/in. 0.051" thick. X 0.500" height. 11-13Cr. Sol. 5.0 fins/in. 0.051" thick. X 0.500" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|---|-------------------------------------|-------|--|---|---|----------------|
| | | | | | | 2.875" O.D. SA-335-P91 (236 Tubes) 2.875" O.D. SA-335-P22 (96 Tubes) 2.875" O.D. SA-106-B (372 Tubes) | 11.5 m. 11.6 m. 11.6 m. | | |
| 92 | 2011 | J-F1049 | Kinetics Technology International Corporation | KT018236P18606 | 56 | 6.625" O.D. SA-106-B | 10.0 m. | 0.059" thick. X 0.985" height. CS Sol. 4.0 fins/in. | Rust Veto 377T |
| 93 | 2011 | J-F1050 | Boustead International Heaters. | 630/240 | 196 | 6.625" O.D. SA-106-B (132 Tubes) 6.625" O.D. SA-312-TP347H (64 Tubes) | 7.9 m. | 0.050" thick. X 0.374" height. CS Sol. 2.0 fins/in. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.752" height. 11Cr. Sol. 5.0 fins/in. | Rust Veto 377T |
| 94 | 2011 | J-F1051 | Boustead International Heaters. | 631/240 | 128 | 6.625" O.D. SA-335-P9 | 6.3 m. | 0.050" thick. X 0.512" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.478" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.984" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 95 | 2011 | J-F1052 | Boustead International Heaters. | 632/240 | 80 | 5.563" O.D. SA-106-B | 5.5 m. | 0.059" thick. X 0.752" height. CS Sol. 2.5 fins/in. | Rust Veto 377T |
| 96 | 2011 | J-F1055 | Boustead International Heaters. | 634/240 | 744 | 6.625" O.D. SA-106-B (64 Tubes) 2.375" O.D. SA-106-B (680 Tubes) | 5.1 m. 5.2 m. | 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.748" height. CS Sol. 3.0 fins/in. 0.051" thick. X 0.492" height. CS Sol. 2.0 fins/in. 0.051" thick. X 0.394" height. CS Sol. 3.0 fins/in. 0.051" thick. X 0.236" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 97 | 2011 | J-F1056 | Boustead International Heaters. | 633/240 | 52 | 5.563" O.D. SA-312-TP347 | 3.3 m. | 0.059" thick. X 1.000" height. 304-SS Sol. 4.0 fins/in. | Rust Veto 377T |
| 98 | 2011 | J-F1057 | Boustead International Heaters. | 635/240 | 480 | 1.900" O.D. SA-213-T22 | 4.5 m. | 0.051" thick. X 0.500" height. 11Cr. Serr. 5.0 fins/in. | Rust Veto 377T |
| 99 | 2011 | J-F1058 | Petro-Chem Development Co.,In | F11-2008-09 | 384 | 4.500" O.D. SA-335-P9 | 9.7 m. | 0.105" thick. X 0.748" height. 11-13Cr. Sol. 4.0 fins/in. | Rust Veto 377T |
| 100 | 2011 | J-F1059 | Boustead International Heaters. | 639/240 | 16 | 6.625" O.D. SA-106-B | 4.2 m. | 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.500" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 101 | 2011 | J-F1060 | Boustead International Heaters. | 636/240 | 272 | 4.500" O.D. SA-106-B (240 Tubes) 4.500" O.D. SA-335-P22 (32 Tubes) | 10.8 m. 7.6 m. | 0.051" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.866" height. CS Sol. 5.0 fins/in. 0.051" thick. X 0.750" height. 11Cr. Sol. 4.0 fins/in. 0.051" thick. X 0.630" height. CS Sol. 4.0 fins/in. 0.051" thick. X 0.500" height. 11Cr. Sol. 4.0 fins/in. | Rust Veto 377T |
| 102 | 2011 | J-F1061 | Boustead International Heaters. | 637/240 | 216 | 8.625" O.D. SA-213-TP321 (192 Tubes) 8.625" O.D. SA-106-B (24 Tubes) | 6.4 m. 11.2 m. | 0.059" thick. X 0.748" height. 11Cr. Sol. 5.0 fins/in. 0.059" thick. X 0.315" height. CS Sol. 3.0 fins/in. | Rust Veto 377T |
| 103 | 2011 | J-F1062 | Born Heaters Canada ULC | IRPC 8059 | 6 | 6.625" O.D. SA-312-TP321 | 2.7 m. | 0.050" thick. X 0.984" height. CS Sol. 5.0 fins/in. | Rust Veto 377T |
| 104 | 2011 | J-F1063 | Born Heaters Canada ULC | IRPC 8060 | 36 | 4.500" O.D. SA-106-B | 3.7 m. | 0.050" thick. X 0.984" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.984" height. 11Cr. Sol. 5.0 fins/in. | Rust Veto 377T |
| 105 | 2011 | J-F1064 | Petro-Chem Development Co.,In | F11200407-09 / (622/PD54022) | 230 | 5.563" O.D. SA-106-B (36 Tubes) 4.500" O.D. SA-213-TP347 (64 Tubes) 4.500" O.D. SA-335-P22 (96 Tubes) 4.500" O.D. SA-335-P9 (24 Tubes) 4.500" O.D. SA-106-B (10 Tubes) | 6.0 m. 6.2 m. 6.2 m. 6.2 m. 11.4 m. | 0.060" thick. X 1.000" height. 304SS Sol. 3.5 fins/in. 0.050" thick. X 1.000" height. 304SS Sol. 3.5 fins/in. 0.050" thick. X 1.000" height. 11Cr. Sol. 5.0 fins/in. 0.050" thick. X 1.000" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.875" height. 11Cr. Sol. 4.0 fins/in. 0.050" thick. X 0.500" height. 11Cr. Sol. 2.0 fins/in. | Rust Veto 377T |
| 106 | 2011 | J-F1065 | Petro-Chem Development Co.,In | F102003-28 / (608/PD54018) | 6 | 4.500" O.D. Incoloy 600H | 5.9 m. | 0.060" thick. X 0.500" height. 304SS Serr. 1.5 fins/in. | Rust Veto 377T |
| 107 | 2011 | J-F1066 | Petro-Chem Development Co.,In | F102000-21 | 160 | 8.625" O.D. Incoloy 800H (36 Tubes) 8.625" O.D. SA-335-P5 (80 Tubes) 3.500" O.D. SA-335-P5 (44 Tubes) | 6.1 m. 8.2 m. 8.2 m. | 0.050" thick. X 0.500" height. 11Cr. Sol. 2.0 fins/in. 0.050" thick. X 0.625" height. 11Cr. Sol. 4.5 fins/in. 0.050" thick. X 0.752" height. 11Cr. Sol. 5.0 fins/in. | Rust Veto 377T |
| 108 | 2011 | J-F1070 | Kinetics Technology International Corporation | KT419608 | 466 | 141.3 mm O.D. TP347 (20 Tubes) 168.3 mm O.D. P22 (56 Tubes) 114.3 mm O.D. P91 (198 Tubes) 89.1 mm O.D. A106B (192 Tubes) | 13.285 | 1.27 mm thick. X 19.1 mm height. 18Cr-8Ni Sol. 197 fins/m. 1.27 mm thick. X 19.1 mm height. CS Sol. 197 fins/m. 1.5 mm thick. X 12.7 mm height. 18Cr-8Ni Sol. 197 fins/m. 1.5 mm thick. X 12.7 mm height. CS Sol. 197 fins/m. | Rust Veto 377T |
| 109 | 2011 | J-F1071 | Boustead International Heaters. | 645/240 | 1,008 | 48.1 mm O.D. TP321 (1008 Tubes) | 3.571 m. | 1.27 mm thick. X 16.00 mm height. 4095s Serr 197 fins/m. | Rust Veto 377T |
| 110 | 2011 | J-F1072 | Boustead International Heaters. | 641/240 | 320 | 114.3 mm O.D. P5 (320 Tubes) | 6.644 m. | 1.5 mm thick. X 25.4 mm height. 11Cr. Sol. 100 fins/m. | Rust Veto 377T |
| 111 | 2011 | J-F1073 | Lummus Technology Heat Transfer B.V. | 6-2608-1126 | 880 | 114.3-219 mm O.D. TP347 114.3-219 mm O.D. P9 114.3-219 mm O.D. P22 114.3-219 mm O.D. A106B | 8.455-9.320 m. | 1.27-1.5 thick. X 19 mm height. 18Cr-8Ni Sol. 118 fins/m. 1.27-1.5 thick. X 19 mm height. 11-13Cr Sol. 118 fins/m. 1.27-1.5 thick. X 19 mm height. CS Sol. 118 fins/m. | Rust Veto 377T |
| 112 | 2011 | J-F1074 | Boustead International Heaters. | 640/240 | 600 | 42.2 mm O.D. TP347 | 3.838-4.589 m. | 1.27 mm thick. X 10 mm height. 304SS Serr. 197 fins/m. | Rust Veto 377T |
| 113 | 2011 | J-F1077 | Boustead International Heaters. | 648/240 | 88 | 88.9 mm O.D. A106B 88.9 mm O.D. TP316i | 7.832-8.895 m. 7.832-8.895 m. | 1.5 mm thick. X 12.7 mm height. 11-13Cr Sol. 157 fins/m. 1.5 mm thick. X 12.7 mm height. CS Sol. 157 fins/m. | Rust Veto 377T |
| 114 | 2012 | J-F1078 | Boustead International Heaters. | 647/262 (repeat order F1055 & 1074) | 1,304 | 42.2 mm O.D. 347SS 60.33 mm O.D. A106B 168.3 mm O.D. A106B | 3.919-6.030 m. | 1.27 mm thick. X 6-25.4 mm height. 304SS Sol. 79-197 fins/m. 1.27 mm thick. X 6-25.4 mm height. CS Sol. 79-197 fins/m. | Rust Veto 377T |
| 115 | 2012 | J-F1079 | Boustead International Heaters. | 644/240 & 644/241 | 666 | 42.2,60.3,141.3 mm O.D. TP347H 42.2,60.3,141.3 mm O.D. A106 | 4.582-6.871 m. | 1.27 mm thick. X 7-25.4 mm height. 4095S Sol. 138-197 fins/m. 1.27 mm thick. X 7-25.4 mm height. CS Sol. 138-197 fins/m. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|-------------------------------------|---|-------|--|----------------------------------|---|----------------|
| 116 | 2012 | J-F1080 | Boustead International Heaters. | 650/240 | 320 | 88.9 mm O.D. A106B | 2.032-3.000 m. | 1.27 thick. X 12.7 mm height.CS Serr. 118-157 fins/m. | Rust Veto 377T |
| 117 | 2012 | J-F1081 | Boustead International Heaters. | 656/240 & 656/241 (repeat order F1079/1605) | 666 | 42,2,60,3,141.3 mm O.D. TP347H 42,2,60,3,141.3 mm O.D. A106 | 4.582-6.871 m. | 1.27 mm thick. X 7-25.4 mm height. 409SS Sol. 138-197 fins/m. 1.27 mm thick. X 7-25.4 mm height.CS Sol. 138-197 fins/m. | Rust Veto 377T |
| 118 | 2012 | J-F1083 | Lumms Technology Heat Transfer B.V. | IRPC 6-2623-1120 | 114 | 114.3 mm O.D. A106B | 4.320-5.455 m. | 2.5 mm thick. X 12.7mm height.CS Sol. 118 fins/m. | Rust Veto 377T |
| 119 | 2012 | J-F1084 | Born Heaters Canada ULC. | 9399-08 | 36 | 168.3 mm O.D. A335 P5 | 3.505-4.560 m. | 1.27 mm thick. X 12.7-25.4 mm height.CS Sol. 197 fins/m. | Rust Veto 377T |
| 120 | 2012 | J-F1085 | Born Heaters Canada ULC. | 8063-08 | 65 | 168.3 mm O.D. A106B | 4.75-5.67 m. | 2.7 mm thick X 19 mm height CS Sol.118 Fins/m. | Rust Veto 377T |
| 121 | 2012 | J-F1086 | Born Heaters Canada ULC. | 8064-08 | 153 | 168.3 mm O.D. A106B | 5.368-6.268 m. | 1.27 mm thick X 12.7-25.4 mm height CS Sol. 197 fins/m. | Rust Veto 377T |
| 122 | 2012 | J-F1087 | ITT S.P.A. | KB-11022-23 | 64 | 165.2 mm O.D. P11 165.2 mm O.D. 347SS | 5.176-6.715 m. 5.176-6.715 m. | 1.5 mm thick X 16-25.4 mm height CS Sol. 157-197 fins/m. | Rust Veto 377T |
| 123 | 2012 | J-F1088 | Boustead International Heaters. | 665/240 | 160 | 42.2 mm O.D. A106B | 3.359 - 3.925 m. | 1.27 mm thick X 6.5-16 mm height CS Sol. 157-197 fins/m. | Rust Veto 377T |
| 124 | 2012 | J-F1089 | GASCO | Finning | 92 | 114.3 mm O.D. A106B | 6-8 m. | 1.5 mm thick X 25.4 mm height 409SS Sol. 170 fins/m. | Rust Veto 377T |
| 125 | 2012 | J-F1090 | Thi Tulsa Heaters INC. | 12-772-BM-5A | 338 | 101.6,168.3 mm O.D. A106B | 3.455-7.318 m | 1.27 mm thick X 19.05-25.4 mm height CS Sol. 197-276 fins/m. | Rust Veto 377T |
| 126 | 2012 | J-F1091 | Thi Tulsa Heaters INC. | 12-774-BM-5A | 209 | 101.6,168.3 mm O.D. A106B | 3.455-7.318 m | 1.27 mm thick X 19.05-25.4 mm height CS Sol. 197-276 fins/m. | Rust Veto 377T |
| 127 | 2012 | J-F1092 | Foster Wheeler India Private Ltd. | PTT / Chevron Project (Thailand) | 757 | 114.3 mm O.D. A106B | 2.15-8.661 m | 1.27 mm thick X 12.7-25.4 mm height CS Serr. 98-197 fins/m. | Rust Veto 377T |
| 128 | 2012 | J-F1093 | Selas Fluid Processing Corporatiion | BASF Fina Finning | 996 | 3",3.51",4.5",5.5" O.D. SA-106-B 3",3.51",4.5",5.5" O.D. P11 3",3.51",4.5",5.5" O.D.T91 | 28.625-36.714 ft | 0.050" thick. X 0.75"-1" height. CS Sol. 5.0 fins/in. 0.050" thick. X 0.75"-1" height. 11-13Cr Sol. 5.0 fins/in. 0.050" thick. X 0.75"-1" height. 18Cr-8Ni Sol. 5.0 fins/in. | Rust Veto 377T |
| 129 | 2012 | J-F1094 | Boustead International Heaters. | 667/240 | 1,026 | 42.2 mm O.D. A335 P11 | 3.932 - 4.4 m. | 1.27 mm thick X 15.9 mm height 11-13Cr Sol. 197 fins/m. | Rust Veto 377T |
| 130 | 2012 | J-F1095 | ITT S.P.A. | 11093-5B/476 | 168 | 114.3 , 139.8 mm O.D. A106B | 5.092 - 8.018 m. | 1.27 mm thick X 19-25.4 mm height CS Sol. 197 fins/m. | Rust Veto 377T |
| 131 | 2012 | J-F1097 | Boustead International Heaters. | 671-240 Finning | 1,272 | 114.3 mm O.D. A106B ; P22 | 6.237 - 9.509 m. | 1.27 mm thick X 12.7-19.05 mm height CS Sol. 157-197 fins/m. 1.27 mm thick X 12.7-19.05 mm height 11-13Cr Sol. 157-197 fins/m. | Rust Veto 377T |
| 132 | 2012 | J-F1098 | Petro-Chem Development Co.,In | F-12-2028 Finning | 612 | 114.3 mm O.D. A106B ; P11 | 8 - 9.721 m. | 1.27 mm thick X 19 mm height CS Sol. 118-197 fins/m. 1.27 mm thick X 19 mm height 11-13Cr Sol. 118-197 fins/m. | Rust Veto 377T |
| 133 | 2012 | J-F1099 | Petro-Chem Development Co.,In | F-12-0890 Finning | 48 | 114.3 mm O.D. TP316 | 9.59 - 9.965 m. | 2.5 mm thick X 19.05 mm height 11-13Cr Sol. 118 fins/m. 2.5 mm thick X 19.05 mm height CS Sol. 118 fins/m. | Rust Veto 377T |
| 134 | 2012 | J-F1100 | Petro-Chem Development Co.,In | F-12-2025-2026 Finning | 2,688 | 4.500" O.D. P22;P11 | 27.333 - 30.937 ft | 0.050" thick. X 0.38"-1" height. 11-13Cr Sol. 3-5.0 fins/in. | Rust Veto 377T |
| 135 | 2012 | J-F1101 | Boustead International Heaters. | 658-240 Finning | 3,360 | 60.3 ; 73 mm O.D A106B;A312 TP316L | 15.332 - 16.32 m. | 1.27 mm thick X 12-22 mm height CS Sol. 157-197 fins/m. 1.27 mm thick X 12-22 mm height 304SS Sol. 157-197 fins/m. | Rust Veto 377T |
| 136 | 2012 | J-F1102 | Born Heaters Canada ULC. | 9405-08 Finning | 120 | 168.3 mm O.D. P11;316Ti | 9.320-10.052 m. | 1.27 mm thick X 12.7 mm height CS Sol. 158-197 fins/m. 1.27 mm thick X 12.7 mm height 11-13Cr Sol. 158-197 fins/m. | Rust Veto 377T |
| 137 | 2012 | J-F1103 | FURNACE ENGINEERING INC. | ICHTHYS PROJECT | 96 | 168.3 mm O.D. A106B | 8.33 - 9.17 m. | 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/m. | Rust Veto 377T |
| 138 | 2013 | J-F1106 | EMCO (Thailand) | BHC/EB2-021/13M001 Finning | 56 | 141.3;168.3 mm O.D. P22,P9 | 3.422-5.254 m. | 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/ m. 1.27 mm thick X 25.4 mm height 11-13Cr Sol. 197 fins/ m. | Rust Veto 377T |
| 139 | 2013 | J-F1107 | ITT S.P.A. | B-10119-20-040 Finning | 4 | 165.2 mm O.D. A106B | 5.192 m | 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/ m. | Rust Veto 377T |
| 140 | 2013 | J-F1108 | ITT S.P.A. | 12329-B Finning | 18 | 168.3 mm O.D. TP304H | 4.401-5.1 m | 1.27 mm thick X 19 mm height 18Cr-8Ni Sol. 197 fins/m. | Rust Veto 377T |
| 141 | 2013 | J-F1109 | Born Heaters Canada ULC. | 9417-05 & 08 Finning | 40 | 219.1 mm O.D. A106B | 12.534 m | 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/ m. 1.27 mm thick X 25.4 mm height 11-13Cr Sol. 197 fins/ m. | Rust Veto 377T |
| 142 | 2013 | J-F1110 | ITT S.P.A. | 11141-9B Finning | 794 | 101.6,114.3,168.3,219.1,88.9 mm O.D A213_T5 101.6,114.3,168.3,219.1,88.9 mm O.D TP347H 101.6,114.3,168.3,219.1,88.9 mm O.D A335_P5 101.6,114.3,168.3,219.1,88.9 mm O.D A335_P9 101.6,114.3,168.3,219.1,88.9 mm O.D SA106_GrB | 3.426 - 13.800 m | 1.27 mm thick X 10-25.4 mm height 11-13Cr, CS, 304SS Sol. 75-197 fins/ m. 1.27 mm thick X 10-25.4 mm height 11-13Cr, CS, 304SS Sol. 75-197 fins/ m. 1.52 mm thick X 10-25.4 mm height 11-13Cr, CS, 304SS Sol. 75-197 fins/ m. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|--|---------------------------------------|-------|---|---|--|----------------|
| | | | | | | 101.6,114.3,168.3,219.1,88.9 mm O.D SA335_P22 | | | |
| 143 | 2013 | J-F1111 | Petro-Chem Development Co.,In | F122043-12 Finning | 524 | 114.3,89.1 mm O.D Incoloy 800H 114.3,89.1 mm O.D A335 P22 114.3,89.1 mm O.D TP304H 114.3,89.1 mm O.D A106B | 7.992 - 9.706 m | 1.5mm thick X 9.53-15.87 mm height 11-13Cr, CS, 304SS,310SS Sol.39 - 197 fins/ m. | Rust Veto 377T |
| 144 | 2013 | J-F1112 | Boustead International Heaters. | 679/240 Finning | 15 | 168 mm O.D A106B | 9.254-10.000 m | 1.27 mm thick X 12.7-25.4 mm height CS Serr 197 fins/m. | Rust Veto 377T |
| 145 | 2013 | J-F1114 | ITT S.P.A. | 12638-41B-010 Finning | 138 | 168.3 , 114.3 mm O.D A312_Tp347H 168.3 , 114.3 mm O.D A312_Tp321 168.3 , 114.3 mm O.D A106_GrB | 3.776 - 7.625 m. | 1.5 mm thick X 18 -25.4 mm height 304SS,409SS ,CS Sol. 122-197 fins/m. 1.27 mm thick X 18 -25.4 mm height 304SS,409SS ,CS Sol. 122-197 fins/m. | Rust Veto 377T |
| 146 | 2013 | J-F1115 | Kirchner Italia S.p.A. | DANGOTE FERTILIZER PROJE CT - NIGERIA | 1,299 | 141.3,168.3 mm O.D A106B 141.3,168.3 mm O.D A335 P11 141.3,168.3 mm O.D TP304H | 14.626 - 16.014 m. | 1.27 mm thick X 12.7 - 19.1 mm height 304SS,409SS ,CS Sol. 177-197 fins/m. | Rust Veto 377T |
| 147 | 2013 | J-F1116 | GASCO | Upgrade Project | 72 | 4" O.D. A106B | 17.333-18.55 m | 0.064 " thick X 1 " height 409SS ,CS Serr 5.5 fins/ in | Rust Veto 377T |
| 148 | 2013 | J-F1119 | Boustead International Heaters. | 676-240 Finning | 3,648 | 42.2 mm O.D A106B | 8.424 - 8.9 m | 1.27 mm thick X 9.5 - 25.4 mm height CS Sol. 118-236 fins/m. 1.27 mm thick X 9.5 - 25.4 mm height CS Serr. 118-236 fins/m. | Rust Veto 377T |
| 149 | 2013 | J-F1120 | Boustead International Heaters. | 675-240 Finning | 870 | 42.2 mm O.D A106B | 3.024 - 3.283 m | 1.27 mm thick X 12.7 mm height 11-13Cr Serr. 236 fins/m. | Rust Veto 377T |
| 150 | 2013 | J-F1121 | Boustead International Heaters. | 680-240 Finning suspended | 672 | 168.3,141.3 mm O.D A312 TP317L 168.3,141.3 mm O.D SA335 P22 | 9.393 - 11.8 m | 0.059 " thick X 0.375 " - 1 " height 11-13Cr Sol. 2-4 fins/in | Rust Veto 377T |
| 151 | 2013 | J-F1122 | Boustead International Heaters. | 681-240 Finning | 1,002 | 48.3 mm O.D A335 P11 | 4.624 - 4.860 | 1.27 mm thick X 15 mm height 11-13Cr Serr. 197 fins/m. | Rust Veto 377T |
| 152 | 2013 | J-F1123 | Petro-Chem Development Co.,In | F132051-01 Finning | 160 | 4.500" O.D. Incoloy 800H | 23.496 - 58.198 ft | 0.050" thick. X 1" height. TP321SS Sol. 5 fins/in. | Rust Veto 377T |
| 153 | 2013 | J-F1124 | Kirchner Italia S.p.A. | B-7080 Finning | 1,466 | 141.3 mm O.D A106B | 5.246 - 6.386 m. | 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/m. | Rust Veto 377T |
| 154 | 2013 | J-F1125 | Born Heaters Canada ULC. | 9428-08 Finning | 232 | 60.3 mm O.D A106B 114.3 mm O.D TP316TI 114.3 mm O.D TP316TI | 10.100-10.83 m 10.100 m 10.100-10.850 m | 1.27 mm thick X 12.7 mm height CS Sol. 197 fins/m. 1.27 mm thick X 25.4 mm height 11-13Cr Sol. 197 fins/m. 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/m. | Rust Veto 377T |
| 155 | 2013 | J-F1126 | ITT S.P.A. | 12657-8B - RfQ MR 18921 Finning | 732 | 4.5 " O.D 304H 4.5 " O.D 304H 4.5 " O.D A106B 4.5 " O.D A106B 4.5 " O.D P11 4.5 " O.D P11 4.5 " O.D P11 4.5 " O.D P11 4.5 " O.D P22 | 11.934 - 12.38 m 11.934 - 13.607 m 11.934 - 12.449 m 11.934 - 12.441 m 11.934 - 12.9071 m 11.934 - 12.534 m 11.934 m 11.934-12.422 m 11.934-12.507 m. | 1.50 mm thick X 9.50 mm height 304SS Sol. 63-79 fins/m. 1.50 mm thick X 15.9 mm height 304SS Sol. 197 fins/m. 1.50 mm thick X 15.9 mm height CS Sol. 197 fins/m. 1.50 mm thick X19.1 mm height CS Sol. 197 fins/m. 1.50 mm thick X12.7 mm height CS Sol. 118 fins/m. 1.50 mm thick X15.9 mm height 410 Sol. 161 fins/m. 1.50 mm thick X15.9 mm height CS Sol. 197 fins/m. 1.50 mm thick X15.9 mm height CS Sol. 98 fins/m. 1.50 mm thick X15.9 mm height 410 Sol.197 fins/m. | Rust Veto 377T |
| 156 | 2013 | J-F1127 | Alstom Procurement and Logistics Dept. | 4100482865-0 Finning | 237 | 114.3 mm O.D A106C 114.3 mm O.D A106C | 15.545 m 15.545 m | 1.27 mm thick X12.7 mm height 409SS Sol. 118 fins/m. 1.27 mm thick X12.7 mm height CS Serr. 157-236 fins/m. | Rust Veto 377T |
| 157 | 2013 | J-F1128 | Vogt Power International | IRPC-PP-(Q13099R2) Finning | 7,752 | 1.500" O.D. SA-213-T22 1.500" O.D. SA-213-T11 1.500" O.D. SA-210-A1 | 12.6 m. | 0.040" thick. X 0.375" height. 409-SS Sol. 5.0 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. | Rust Veto 377T |
| 158 | 2013 | J-F1129 | Vogt Power International | Amata 4 Finning | 5,460 | 1.500" O.D. SA-178-A 1.500" O.D. SA-213-T11 1.500" O.D. SA-213-T22 | 15.7 m. | 0.040" thick. X 0.375" height. CS Sol. 7.3 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. 0.040" thick. X 0.375" height. 409-SS Sol. 6.8 fins/in. 0.040" thick. X 0.500" height. 409-SS Sol. 7.3 fins/in. | Rust Veto 377T |
| 159 | 2013 | J-F1130 | Vogt Power International | Amata 5 Finning | 5,460 | 1.500" O.D. SA-178-A 1.500" O.D. SA-213-T11 1.500" O.D. SA-213-T22 | 15.7 m. | 0.040" thick. X 0.375" height. CS Sol. 7.3 fins/in. 0.040" thick. X 0.500" height. CS Serr. 7.3 fins/in. 0.040" thick. X 0.375" height. 409-SS Sol. 6.8 fins/in. 0.040" thick. X 0.500" height. 409-SS Sol. 7.3 fins/in. | Rust Veto 377T |
| 160 | 2013 | J-F1131 | PTT Thailand | 3120006527 Finning | 379 | 114.3 mm O.D. A106B | 2.000-9.121 m | 1.27 mm thick X12.7-25.4 mm height CS Serr. 98- 197 fins/m. | Rust Veto 377T |
| 161 | 2014 | J-F1132 | Alstom Procurement and Logistics Dept. | 4100516384 Finning | 16 | 168.3 mm O.D. A106B | 15.545 m | 1.27 mm thick X19 mm height CS Serr. 236 fins/m. | Rust Veto 377T |
| 162 | 2014 | J-F1133 | Petro-Chem Development Co.,In | F132050-17 Finning | 608 | 3.5 " O.D. SA106B 4.5 " O.D. SA335 P22 4.5 " O.D. A312 TP304H 4.5 " O.D. SA106B | 35.27083 ft -37.36458 ft 36.10417 ft -40.71875 ft 36.10417 ft -39.61979 ft 35.27083 ft -38.59896 ft | 0.049" thick. X 0.625 " - 0.75" height. CS Sol.5 fins/in. 0.049" thick. X 0.625" height.409SS Sol.5 fins/in. 0.049" thick. X 0.5" height. 18Cr-8Ni Sol.5 fins/in. 0.049" thick. X 0.625 " height. CS Sol.5 fins/in. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|---------------------------------|--|--------|---|---|--|----------------|
| 163 | 2014 | J-F1134 | Petro-Chem Development Co.,In | NORTH AMERICAN GROWTH (NAG) | 2,192 | 88.9 mm O.D A/SA312 TP316H,A/SA335 P22, 141.3 mm O.D A106 Gr.B 168.3 mm O.D A312 TP304H,A106 Gr.B | 16.966-18.215 m 16.814-18.479 m 16.966-18.053 m | 1.27 mm thick X 19,22.2 mm height 310SS,304SS,11-13Cr Sol. 197 fins/m. 1.27 mm thick X 25.4 mm height CS Sol. 197 fins/m. 1.27 mm thick X 12.7, 19 mm height 310SS,CS Sol. 197 fins/m. | Rust Veto 377T |
| 164 | 2014 | J-F1135 | Born Heaters Canada ULC. | 8070-08 Finning | 352 | 114.3 mm O.D A106B 114.3 mm O.D A106B | 11.828-12.486 m 11.828-12.486 m | 1.27 mm thick X 22.2 mm height CS Sol. 197 fins/m. 1.27 mm thick X 22.2,12.7,9.5 mm height 11-13Cr Sol. 197,138, 79 fins/m. | Rust Veto 377T |
| 165 | 2014 | J-F1136 | Born Heaters Canada ULC. | 8068-08 Finning | 133 | 141.3 mm O.D A335 P11 168.3 mm O.D A335 P11 | 11.58-12.748 m 11.551-13.756 m | 1.27 mm thick X 25.4mm height CS,11-13Cr Sol. 197 fins/m. 1.27 mm thick X 25.4mm height CS,11-13Cr Sol. 197 fins/m. | Rust Veto 377T |
| 166 | 2014 | J-F1137 | PCD HEURTEY INDIA | PX4-Charge Heater for RIL Jammagar P.O No 300719 | 64 | 219.1 mm O.D A335 P22 219.1 mm O.D A335 P22 | 6.205 m 7.391 m | 1.27 mm thick X 25.4mm height 304SS Sol. 197 fins/m. 1.27 mm thick X 25.4mm height 304SS Sol. 197 fins/m. | Rust Veto 377T |
| 167 | 2014 | J-F1138 | Petro-Chem Development Co.,In | ABINE PASS LIQUEFACTION PROJECT STAGE 2 | 2,688 | 4,500" O.D. P22;P11 | 27.333 - 30.937 ft | 0.050" thick. X 0.38"-1" height. 11-13Cr Sol. 3-5.0 fins/in. | Rust Veto 377T |
| 168 | 2014 | J-F1139 | Boustead International Heaters | 683/240 Finning | 504 | 42.2 mm O.D. SA312 TP310S | 4.824-5.027 m | 1.3 mm thick. X 15 mm height. 409SS Serr 220 fins/m. | Rust Veto 377T |
| 169 | 2014 | J-F1140 | Boustead International Heaters | 684/240 Finning (cancel) | 2,520 | 88.9 mm O.D. Alloy 800 NO8810 | 9.4-10.058 m | 1.3 mm thick. X 15.00,17.00 mm height. AISI 409 Solid 167,197 fins/m. | Rust Veto 377T |
| 170 | 2014 | J-F1141 | Vatana Phaisal Engineering | CP-Chem/JGC Finning | 3,152 | 4.5 mm O.D. TP304H,347SS,A335 P22,A106B | 57.83-60.83 ft | 0.05" thick. X 0.5,0.75,1" height. 310SS,304SS,11-13Cr Serr 5 fins/in. | Rust Veto 377T |
| 171 | 2014 | J-F1142 | Kirchner Italia S.p.A. | B-7220-23/148 Finning | 544 | 114.3 mm O.D. A106B,A335 P22 | 12.33-13 m | 1.3 mm thick. X 19.05 mm height. CS,11-13Cr Solid 197,157 fins/m. | Rust Veto 377T |
| 172 | 2014 | J-F1143 | Thai Oil Public Company Limited | TR14023 Finning | 12 | 114.3 mm O.D. 304SS | 12 m | 1.25 mm thick. X 17.85 mm height. 304SS Solid 197 fins/m. | Rust Veto 377T |
| 173 | 2014 | J-F1144 | RCR Asia | Thai oil Box 1 | 4,526 | 38.1 mm O.D. SA 213 T22,SA210A1 | 13.845 m | 1 mm thick. X 13.00,16.00 mm height. 409SS,CS 197,260 fins/m. | Rust Veto 377T |
| 174 | 2014 | J-F1145 | OnQuest Canada | 9432-08 | 288 | 1.5" O.D. SA 213 T22 | 10.64583-11.375 ft | 0.05" thick. X 0.5" height. 11-13Cr 2.0,5.0 fins/in. | Rust Veto 377T |
| 175 | 2014 | J-F1146 | Boustead International Heaters | 686/240 | 1,188 | 48.3 mm O.D. A335 P11 | 4.024-4.300 m | 1.3 mm thick. X 19.1 mm height. 409SS Serr 197 fins/m. | Rust Veto 377T |
| 176 | 2014 | J-F1147 | Kirchner Italia S.p.A. | B-7422-67/279 | 564 | 88.9,141.3 mm O.D. A335 P11,TP304H,SA333 Gr.6,A335 P22 | 12.326-13.866 m | 1.27 mm thick. X 9.5,15.9 mm height. CS,304SS,11-13Cr Solid 197,177 fins/m. | Rust Veto 377T |
| 177 | 2014 | J-F1148 | Vogt Power International | NNEG-17483 | 5,264 | 1.5" O.D. SA 213 T22, SA 178 | 52.083-52.634 ft | 0.039" thick. X 0.5" height. CS,409SS Serr 6.59892,7.29996,6.49986,1.99898,5.99948 fins/in. | Rust Veto 377T |
| 178 | 2014 | J-F1149 | Vogt Power International | SPR-17484 | 5,264 | 1.5" O.D. SA 213 T22,SA 178 | 52.083-52.634 ft | 0.039" thick. X 0.5" height. CS,409SS Serr,Solid 7.0,7.3,6.5,2.0 fins/in. | Rust Veto 377T |
| 179 | 2014 | J-F1150 | Foster Wheeler Engineering | 020101-UK-0010 a/c NSRP Reformer Project | 2,214 | 60.3,101.6,114.3 mm O.D. A106B,A335 P22,TP304H | 9.60-14.80 m | 1.5 mm thick. X 23,13,10,21 mm height. CS,11-13Cr,18Cr-8Ni Solid 60,177,197 fins/m. | Rust Veto 377T |
| 180 | 2014 | J-F1151 | Boustead International Heaters | 687/240 | 32 | 114.3 mm O.D. A106B | 8-10 m | 1.27 mm thick. X 12.7,19.05 mm height. CS Solid 197,138 fins/m. | Rust Veto 377T |
| 181 | 2014 | J-F1152 | ITT S.P.A. | 13643-5B | 28 | 168.3 mm O.D. A335 P11 | 5.026-6.015 m | 1.27 mm thick. X 25.4 mm height. CS,11-13Cr Solid 197 fins/m. | Rust Veto 377T |
| 182 | 2014 | J-F1153 | Vogt Power International | Trans Canada 17479 | 17,520 | 44.5,38.1,30.8 mm O.D. SA 213 T91,SA 213 T22,SA210A1,SA 102 A312 T44 SA 210 C31802 | 19.85-22.09 m | 1.00,1.25 mm thick. X 6.00,12.7,9.5,2.5,15.875, mm height. 409SS,CS Solid, Serr 140,60,371,65,375,60,157,48,181,10,118,11,355,60,68,43,226 | Rust Veto 377T |
| 183 | 2014 | J-F1154 | Boustead International Heaters | 693/240 | 196 | 5.562,4.5" O.D. A312 TP317L,SA335 P11 | 8.27-11.80 m | 0.059" thick. X 1.0,0.75,0.5,0.375,0.8,0.875" height. 11-13Cr Solid 4,3.5 fins/in. | Rust Veto 377T |
| 184 | 2014 | J-F1155 | Boustead International Heaters | 692/240 | 2,304 | 60.3 mm O.D. ASTM A106B | 6.32-7.25 m | 1.27 mm thick. X 20 mm height. CS Solid 197 fins/m. | Rust Veto 377T |
| 185 | 2014 | J-F1156 | Kirchner Italia S.p.A. | SRC Mogas Cogen PJ – Furnaces 7101-B/7102-B | 72 | 168.3 mm O.D. A312 TP347 | 3.73 m | 1.27 mm thick. X 25.4 mm height. 304SS Solid 197 fins/m. | Rust Veto 377T |
| 186 | 2014 | J-F1157 | Boustead International Heaters | 695/240 | 504 | 42.2 mm O.D. A335 P11 | 6.458 m | 1.27 mm thick. X 18.5 mm height. 409SS Solid 197 fins/m. | Rust Veto 377T |
| 187 | 2014 | J-F1158 | Boustead International Heaters | 696/240 | 96 | 168.3 mm O.D. ASTM A312 TP317L | 10.668-11.652 m | 1.5 mm thick. X 25.4 mm height. 11-13Cr Solid 158 fins/m. | Rust Veto 377T |
| 188 | 2015 | J-F1159 | Vogt Power International | Amata Bowin BPB1 17488-HRSG x 2 | 5,460 | 38.1 mm O.D. SA 213 T22,A213-T11,SA 178 | 15.8496 m | 1 mm thick. X 9.53,12.70 mm height. 409SS,CS Solid,Serr 268,287,201 fins/m. | Rust Veto 377T |
| 189 | 2015 | J-F1160 | Vogt Power International | Duke Lee 17487 | 12,128 | 1.5" O.D. SA210A1,SA 192 | 74.073-74.521 ft | 0.032" thick. X 0.50" height. CS Serr 7.20,6.00 fins/in. | Rust Veto 377T |
| 190 | 2015 | J-F1161 | Boustead International Heaters | 698/240 | 31 | 168.3 mm O.D. A106B | 4.432-5.99 m | 1.5 mm thick. X 25.4 mm height. CS Solid 118 fins/m. | Rust Veto 377T |
| 191 | 2015 | J-F1162 | Boustead International Heaters | 699/240 | 360 | 42.2 mm O.D. A335 P11 | 4.274-4.424 m | 1.3 mm thick. X 16 mm height. 11-13Cr Serr 197 fins/m. | Rust Veto 377T |
| 192 | 2015 | J-F1163 | Boustead International Heaters | 694/240 | 192 | 141.3 mm O.D. A335 P9,A335 P11, | 9.64-11.800 m | 1.27 mm thick. X 25.4,15.88,12.7, mm height. CS,11-13Cr Solid 197,158,138,79,170 fins/m. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|--|-------------------------------------|--------|---|----------------------|--|----------------|
| 193 | 2015 | J-F1164 | Boustead International Heaters | 701/240 | 750 | 42.2 mm O.D. A106B | 3.274-3.574 m | 1.25 mm thick. X 16,18 mm height. CS Serr 197 fins/m. | Rust Veto 377T |
| 194 | 2015 | J-F1165 | Boustead International Heaters | 697/242 | 256 | 114.3 mm O.D. SA106B,SA335 P22 | 11.862-12.91 m | 1.5 mm thick. X 12.7,25.4 mm height. CS,11-13Cr Solid 118,158 fins/m. | Rust Veto 377T |
| 195 | 2015 | J-F1166 | Vogt Power International | KCE 17493 | 4,536 | 1.25,1.5" O.D. SA 178,A213-T11 | 51.36-51.526 ft | 0.039" thick. X 0.5" height. CS,409SS Serr 5.9,7.1,7.3 fins/in. | Rust Veto 377T |
| 196 | 2015 | J-F1167 | CBI (Thailand) LTD | 6-2722-0073 | 4,282 | 141.3,73,114.3 mm O.D. TP304H,SA335 P91,A335 P5,A106B | 12.87-27.860 m | 1.27 mm thick. X 12.7,19.1 mm height. 18Cr-8Ni,11-13Cr,CS Solid 118,197,157 fins/m. | Rust Veto 377T |
| 197 | 2015 | J-F1169 | Nooter Eriksen | 142000 Chilca Coil Bundle | 3,823 | 2.248,1.5,1.251,1.751" O.D. SA 213 T91,A213-T11,SA 178 | 58.01-59.173 ft | 0.039" thick. X 0.5,0.374" height. 409SS,CS Serr,Solid 2,625,6.121,6.125,7.000,3.875,6.875 fins/in. | Rust Veto 377T |
| 198 | 2015 | J-F1170 | Heurtey Petrochem | F-15-2064 | 504 | 5.563" O.D. A312 TP 316H,A312 TP 304H | 61.75-63.115 ft | 0.05" thick. X 1,0.5" height. 11-13Cr Solid 2.5,3.8,5 fins/in. | Rust Veto 377T |
| 199 | 2015 | J-F1171 | Boustead International Heaters | 704-240 | 672 | 88.9 mm O.D. A335 Gr P11 | 5.4.824-621 m | 1.27 mm thick. X 16.00 mm height. CS Serr 197 fins/m. | Rust Veto 377T |
| 200 | 2015 | J-F1172 | Heurtey Petrochem | F-14-2061-2062 | 2,688 | 4.500" O.D. P22;P11 | 27.333 - 30.937 ft | 0.050" thick. X 0.38"-1" height. 11-13Cr Sol. 3-5.0 fins/in. | Rust Veto 377T |
| 201 | 2015 | J-F1173 | CBI (Thailand) LTD | 192026-0073 | 16,284 | 73mm,114.3mm,141.3mm O.D. A106 ,TP304H;P91;P11 | 7.488 - 9.731 m | 1.5mm thick. X 12.7-19.1mm height. 11-13Cr,18Cr-8Ni;CS Sol. 157-197 fins/m. | Rust Veto 377T |
| 202 | 2016 | J-F1175 | CBI (Thailand) LTD | 192774 | 502 | 73mm,88.9mm,114.3mm,141.3mm,168.3mm O.D.P22,P11,TP321,TP347H | 2.179 - 13.008 m | 1.27mm thick. X 6.35-25.4mm height. 11-13Cr,18Cr-8Ni;CS Sol. 79-158 fins/m. | Rust Veto 377T |
| 203 | 2016 | J-F1176 | CBI (Thailand) LTD | 192773 | 256 | 101.6mm O.D.P11,TP347H | 8.363 - 8.920 m | 1.27mm thick. X 12.70mm height. 11-13Cr Sol. 118-157 fins/m. | Rust Veto 377T |
| 204 | 2016 | J-F1177 | Boustead International Heaters | 706/240 | 168 | 114.3mm O.D.P11 | 3.932-4.566 m | 1.27mm thick. X 12.70-25.4mm height. 11-13Cr Sol. 118-197 fins/m. | Rust Veto 377T |
| 205 | 2016 | J-F1178 | Heurtey Petrochem | F-15-2068 | 1,344 | 4.5"O.D.P11,P22 | 27.333 ft-30.938 ft | 0.050" thick. X 0.38"-1.00" height. 11-13Cr Sol. 3-5 fins/in. | Rust Veto 377T |
| 206 | 2016 | J-F1179 | Alstom Procurement and Logistics Dept. | Haveli 8055 - OCC x 2 | 33,300 | 1.50",1.75",1.752"O.D.T91,T22,SA210 A ;SA210C | 72.999 ft | 0.031" thick. X 0.51"-0.63" height. 11-13Cr,CS Serr. 2.25-7.37 fins/in. | Rust Veto 377T |
| 207 | 2016 | J-F1180 | Vogt Power International | Amata ABRP3 -17489 - MSG x2 | 5,460 | 38.1 mm O.D. SA 213 T22,A213-T11,SA 178 | 15.8496 m | 1.00 mm thick. X 9.53,12.70 mm height. 409SS,CS Solid,Serr 268,287,201 fins/m. | Rust Veto 377T |
| 208 | 2016 | J-F1182 | Boustead International Heaters | 711/240 | 132 | 219.1,168.3,114.3 mm O.D. A312 TP347,A335 Gr P11 | 4.674 m - 6.116 m | 1.27 mm thick. X 25.4,12.70 mm height. 409SS,Solid, 197 fins/m. | Rust Veto 377T |
| 209 | 2016 | J-F1183 | Boustead International Heaters | 713/240 | 88 | 168.3 mm O.D.,A335 Gr P9 | 6.336 m - 7.889 m | 1.50 mm thick. X 25.4,19.05 mm height. 409SS,Solid, 157,118 fins/m. | Rust Veto 377T |
| 210 | 2016 | J-F1184 | Vogt Power International | Amata ABRP -IV17490 - MSG x 2 | 5,460 | 38.1 mm O.D. SA 213 T22,A213-T11,SA 178 | 15.8496 m | 1.00 mm thick. X 9.53,12.70 mm height. 409SS,CS Solid,Serr 268,287,201 fins/m. | Rust Veto 377T |
| 210 | 2016 | J-F1185 | Vogt Power International | Maputo V 17502 | 4,518 | 1.25",1.50",1.75" O.D. SA213-T11,SA 192 | 50.00 ft | 0.039",0.032" thick. X 0.5" mm height. 409SS,CS ,Serr 3,7,8 fins/inch. | Rust Veto 377T |
| 210 | 2016 | J-F1186 | CBI (Thailand) LTD | 192378 ORPIC LIWA Plastics Project | 2,686 | 73,114.3,101.6,141.3,168.3 mm O.D.A106B,TP-347H,A335 P22,SA335 P91 | 10.514 m-21.214 m | 1.27 mm thick. X 12.7,15.9,19.1,22.2mm height. 409SS,CS,304SS,310SS Serr 108,118,157,197 fins/m. | Rust Veto 377T |
| 211 | 2016 | J-F1187 | Process Technology and Services | 9452-08 | 48 | 168.3 mm O.D. A335 P9 | 9.715 m - 10.715 m | 2.50 mm thick. X 19.00 mm height. CS Solid, 98 fins/m. | Rust Veto 377T |
| 212 | 2016 | J-F1188 | GE | T14-00020 Bridgeport Full Cframe TS | 9,100 | 38.1,44.45 mm O.D. SA210A1,SA210C,SA213T22,SA213T91 | 24.7882 m | 0.80,1.00mm thick. X 10.00,13.00,16.00mm height.409SS, CS ,Serrated,Solid, 80,130,150,220,245,290fins/m. | Rust Veto 377T |
| 213 | 2016 | J-F1189 | Vogt Power International | Amata 5 -IV17491 - MSG x 2 | 5,460 | 38.1 mm O.D. SA 213 T22,A213-T11,SA 178 | 15.8496 m | 1.00 mm thick. X 9.53,12.70 mm height. 409SS,CS Solid,Serr 268,287,201 fins/m. | Rust Veto 377T |
| 214 | 2016 | J-F1190 | OnQuest Canada | 9453-08 | 28 | 168.3 mm O.D. A335 P11 | 3.216 m - 4.180 m | 1.27 mm thick. X 25.40 mm height. 409SS Solid, 197 fins/m. | Rust Veto 377T |
| 215 | 2017 | J-F1191 | Nooter Eriksen | 161200 Riverside Module | 20,640 | 1.5,1.75,2,2.25 mm O.D.A213-T11,SA 178,SA 192,SA 213 T22,SA 213 T91 | 72.03 Ft-73.92 Ft | 0.04 "thick. X 0.5" and 0.375" height. 409SS, CS,Solid,Serr, 3.375 - 7 fins/inch. | Rust Veto 377T |
| 216 | 2017 | J-F1192 | Vatana Phaisal Engineering | Cherry Point | 192 | 114.3 mm O.D. A-312 TP317L,SA-335 P22 | 8.2296 m - 10.0584 m | 2.667 mm thick. X 19.05 and 15.88 mm height. 409SS and 304 Solid, 122-157 fins/m. | Rust Veto 377T |
| 217 | 2017 | J-F1193 | Vogt Power International | Jamaica MSG Module Boxes | 11,406 | 31.8, 38.1 mm O.D. SA192 ,SA213 T91,SA 213 T22 | 17.083 m - 17.243 m | 1.00 mm thick. X 8.00 , 12.7, 15.9 mm height. 409SS and CS Solid,Serr, 110-197 fins/m. | Rust Veto 377T |
| 218 | 2017 | J-F1194 | Vogt Power International | Berk Prai Boxes Final | 2,817 | 38.1 mm O.D. SA192 ,SA210A1,SA 213 T22 | 16.764 m. | 1.00 mm thick. X 8.00 , 12.7, mm height. 409SS and CS Solid,Serr, 177.165-287.401 fins/m. | Rust Veto 377T |
| 219 | 2017 | J-F1195 | Heurtey Petrochem | Farabi Project | 412 | 141.3,168.3 mm O.D. A335 P11 | 8.576m. - 13.677m. | 1.30 mm thick. X25.4 mm height. 409SS and CS Solid, 197 fins/m. | Rust Veto 377T |
| 220 | 2018 | J-F1196 | Kirchner Italia S.p.A. | UZBEKISTAN GAS TO LIQUID | 424 | 168.3,141.3 mm O.D.A106B,P11,TP347,T9 | 5.254m.-19.311m. | 1.30 mm thick. X25.4 and 19.10mm height. 409SS and CS Solid, 197 fins/m. | Rust Veto 377T |
| 221 | 2018 | J-F1197 | Boustead International Heaters | 725/240 | 410 | 114.31 mm O.D. A106B | 6.00m.-8.854m. | 1.27 mm thick. X19.10 mm height. CS Solid, 118-197 fins/m. | Rust Veto 377T |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|-----------------------------------|-------------------------------------|--------|---|-----------------------|---|----------------------|
| 222 | 2018 | J-F1198 | Vatana Phaisal Engineering | INEOS - Convection Pipe Finning | 1,182 | 3.5",4.5",6.63"O.D. A106B,P11,P22,P91,TP347H | 44.33 Ft - 48 Ft | 0.059"-0.098" thick. X0.75" height. CS,409SS,304SS Solid, 2.5-5.0 fins/Inch. | Rust Veto 377T |
| 223 | 2018 | J-F1199 | Vatana Phaisal Engineering | Geismar | 252 | 4.5"O.D. A106B,P11,TP304H | 17.416 Ft - 25.416 Ft | 0.059" thick. X0.5"-0.75" height. CS,304SS Solid,4.0 - 4.5fins/Inch. | Rust Veto 377T |
| 224 | 2018 | J-F1200 | CBI (Thailand) LTD | PTTGC Naphtha Cracker Project | 2,340 | 73.00,141.3,168.30.D. A106B,P11,TP304H,P22,P91,P5 | 10.004m. - 11.762m. | 1.27 mm thick. X12.70-19.50 mm height. CS,304SS,409SS Solid,118-197 fins/m. | Rust Veto 377T |
| 225 | 2018 | J-F1201 | Vogt Power International | V175010 | 2,820 | 1.5"O.D. T22,SA210A1,T11 | 44.187 Ft - 44.401 Ft | 0.039" thick. X0.5"height. CS,409SS Serr,7 fins/Inch. | Rust Veto 377T |
| 226 | 2018 | J-F1202 | Vogt Power International | V175011 | 3,472 | 44.45 and 38.1 mm O.D. T22,SA210A1 | 16.465m - 16.614m. | 1.00 mm thick. X12.70 mm height. CS,409SS Solid,276-287 fins/m. | Rust Veto 377T |
| 227 | 2018 | J-F1203 | Vogt Power International | V17512-17513 | 20,006 | 1.5"O.D. T22,SA210A1 | 46.371FT- 46.646FT. | 0.031"-0.039" thick. X0.5"height. CS,409SS Serr,6-7 fins/Inch. | Rust Veto 377T |
| 228 | 2018 | J-F1204 | Vogt Power International | V17516 | 7,239 | 44.45 and 38.1 mm O.D. T22,SA210A1 | 18.897m - 21.945m. | 1.00 mm thick. X8.00,12.70 mm height. CS,409SS Solid,110-256 fins/m. | Rust Veto 377T |
| 229 | 2018 | J-F1205 | Vatana Phaisal Engineering | 729/240 | 224 | 88.9 mm O.D. P11 | 4.824m.- 5.64m. | 1.27 mm thick. X16.00 mm height. CS Solid,197 fins/m. | Rust Veto 377T |
| 230 | 2018 | J-F1206 | Vatana Phaisal Engineering | 730/240 | 880 | 42.2 mm O.D. P11 | 3.274m.- 3.574m. | 1.27 mm thick. X15.00-18.00 mm height. CS Solid,197 fins/m. | Rust Veto 377T |
| 231 | 2018 | J-F1207 | Process Technology and Services | 8075-08 | 64 | 168.3 mm O.D. A106B | 5.036m - 5.945m. | 1.30 mm thick. X19.10-25.40 mm height. CS Solid,197 fins/m. | Rust Veto 377T |
| 232 | 2018 | J-F1208 | Lotushitemp Metals co.,Ltd. | A015-03-18 | 24 | 168.3 mm O.D. A106B | 12 m. | 1.50 mm thick. X19.10-25.00 mm height. CS Solid,118-197 fins/m. | Rust Veto 377T |
| 233 | 2018 | J-F1209 | Vatana Phaisal Engineering | Shintech Louisiana | 160 | 4.5" O.D. Incoloy 800H | 23.5 FT- 58.197 FT | 0.050" thick. X1.00"height. 321SS Solid,5 fins/Inch. | Rust Veto 377T |
| 234 | 2018 | J-F1210 | Vatana Phaisal Engineering | FHR | 608 | 4" And 4.5" O.D. B407 UNS N08810,P11,A106B | 26.00 FT- 32.349 FT | 0.105" thick. X0.5"-0.75"height. 304SS and 409SS Solid,2.2-74fins/Inch. | Rust Veto 377T |
| 235 | 2018 | J-F1211 | Vogt Power International | V175017 | 27,108 | 31.8,38.1,44.5 mm O.D. ,T11 ,SA178 | 13.468 m. - 13.568 m. | 1.00 mm thick. X8.00,12.70 mm height. CS,409SS Solid,106-256 fins/m. | Rust Veto 377T |
| 236 | 2018 | J-F1212 | Vogt Power International | V175017 | 27,108 | 31.8,38.1,44.5 mm O.D. ,T11 ,SA178 | 13.468 m. - 13.568 m. | 1.00 mm thick. X8.00,12.70 mm height. CS,409SS Solid and Serr,106-256 fins/m. | Rust Veto 377T |
| 237 | 2018 | J-F1213 | Vatana Phaisal Engineering | CCLNG | 1,344 | 4.5" O.D. P11 and P22 | 27.333 FT- 30.937 FT | 0.050" thick. X0.38"-1.00"height. 409SS Solid,3.5-5 fins/Inch. | Rust Veto 377T |
| 238 | 2018 | J-F1214 | Vatana Phaisal Engineering | Midstream | 128 | 5.563"-8.625" O.D. P11 and A106B | 18.25 FT- 55.260 FT | 0.050" thick. X0.875"-1.00"height. 409SS,CS Solid,2.58-5 fins/Inch. | Rust Veto 377T |
| 239 | 2018 | J-F1215 | Boustead International Heaters | 731/240 | 81 | 6.625" O.D. TP317L | 16.416 FT- 32.666 FT | 0.059" thick. X1.00"height. 409SS Solid,4 fins/Inch. | Rust Veto 377T |
| 240 | 2018 | J-F1216 | Boustead International Heaters | 728/240 | 1,600 | 60.3 mm OD. TP347H | 3.838 m. - 4.554 m. | 1.27 mm thick x 15mm height. 304SS Serr, 197 fins/m. | Rust Veto 377T |
| 241 | 2018 | J-F1217 | J.J. Advanced | 9752/1808N005 | 144 | 73 mm - 141.30 mm O.D. TP304H and P91 | 3.2 m.-10.376 m. | 1.3 mm thick x 12.7 mm height. 409SS and 304SS Solid, 59-197 fins/m. | Rust Veto 377T |
| 242 | 2018 | J-F1218 | Chiyoda International Corporation | Exxon GYOF | 1,284 | 88.9 mm - 168.28 mm O.D. 304SS,316L,A106B and A335 P22 | 20.4724 m.-22.7361 m. | 1.27 mm thick x 12.7 mm - 25.40 mm height. 304SS, 310SS, 409SS and CS. Solid, 197 fins/m. | Tectyl 300G FT black |
| 243 | 2018 | J-F1219 | CBI (Thailand) LTD | A015-03-18 | 12 | 141.30 mm O.D. 304SS, A312 TP304H | 8.956 m. - 11.800 m. | 1.27 mm thick x 12.7 mm height. 304SS. Solid, 59 fins/m. | Rust Veto 377T |
| 244 | 2018 | J-F1220 | Process Technology and Services | 9485-05 - PTT - Coil Fab | 70 | 168.3 mm O.D. A106B | 4.21 m. - 6.52 m. | 1.5 mm thick x 19 - 25 mm height. CS. Solid and Serr, 118-197 fins/m. | Rust Veto 377T |
| 245 | 2018 | J-F1221 | ITT S.P.A. | HEC - BANGCHAK - CCR HCU - THAILAND | 416 | 114.3 mm O.D. TP321,A106B ,TP347H | 4.126 m. - 10.713 m. | 2.5 mm thick x 11-19.10 mm height. 409SS and CS. Solid, 95-118 fins/m. | Rust Veto 377T |
| 246 | 2018 | J-F1222 | Edgen Murray | SIN-1629 | 39 | 168.3 mm O.D. TP321 | 5.576 m. - 6.449 m. | 2.5 mm thick x 19.05 mm height. CS Solid, 98 fins/m. | Rust Veto 377T |
| 247 | 2018 | J-F1223 | Lotushitemp Metals co.,Ltd. | A11-002-18 | 48 | 73 - 141.3 mm O.D. A106B | 6.000 m. | 1.27 mm thick x 12.7 - 19.05 mm height. Solid, 197 fins/m. | Rust Veto 377T |
| 248 | 2018 | J-F1224 | Kinetics Technology | K315-PTTGC | 236 | 141.3 mm - 168.3 mm O.D. TP316 Ti | 6.250 m. - 10.400 m | 2.5 mm thick x 19-20 mm height. Solid, 79 fins/m. | Rust Veto 377T |
| 249 | 2018 | J-F1225 | Boustead International Heaters | 736/240 | 240 | 114.3 mm O.D. SA106B | 7.852 m. - 9.026 m. | 1.27 mm thick x 12.7 - 25.4 mm height. Serr, 118-197 fins/m. | Rust Veto 377T |
| 250 | 2019 | J-F1226 | CBI (Thailand) LTD | 232153-MOCD2 | 516 | 73 mm - 168.3 mm O.D. A106GR.B,A312TP304H,A335P5,SA335P91 | 12.336 m. - 27.774 m. | 1.27 mm thick x 12.7 - 22.2 mm height. Solid, 197 fins/m. | Rust Veto 377T |
| 251 | 2019 | J-F1227 | Vogt Power International | V17520 | 4,826 | 31.8 mm. - 44.5 mm O.D. A213-T11,SA 192,SA 213 T22 | 12.783 m. - 15.846 m. | 1.27 mm thick x 7.94 - 12.7 mm height. Solid and Serr, 79 - 236 fins/m. | Rust Veto 377T |
| 252 | 2019 | J-F1228 | Vogt Power International | 17522 IPPL Heartland | 3,772 | 31.8 mm. - 38.1 mm O.D. 2205,SA 178,SA 213 T22 | 12.783 m. - 15.846 m. | 0.80-1.00 mm thick x 8.00 - 15.88 mm height. Solid and Serr, 102- 307 fins/m. | Tectyl 300G FT black |
| 253 | 2019 | J-F1229 | Nooter Eriksen | GSRC Sriracha: Modules | 70,588 | 31.75 mm. - 57.15 mm O.D. A213-T11,SA 192,SA 213 T22,SA 213 T91,SA210C,SA213-UNS-S30432,SA-789-S (S31803) | 22.75 m. - 23.662 m. | 0.80-1.00 mm thick x 8.00 - 15.88 mm height. Serr, 198.85-275.59 fins/m. | Tectyl 300G FT black |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|--|---|--------|---|-----------------------|--|----------------------|
| 254 | 2019 | J-F1230 | CBI (Thailand) LTD | 1120655 Rev.02 „Orpic Project | 49 | 168.3 mm. O.D. A-335-GR- P22 | 10.514 m - 11.702 m. | 1.27 mm thick x 22.20 mm height. Serr, 197 fins/m. | Rust Veto 377T |
| 255 | 2019 | J-F1231 | J.J. Advanced | 10128/1810N045 | 50 | 141.3 mm. O.D. A312 TP304H | 10.376 m. | 1.27 mm thick x 12.70 mm height. Solid,59 fins/m. | Rust Veto 377T |
| 256 | 2019 | J-F1232 | Boustead International Heaters | 738/240 | 1,344 | 60.3 mm. O.D. A335 P11 | 5.824 m. - 6.396 m. | 1.27 mm thick x 15.00 mm height. Solid,157 fins/m. | Rust Veto 377T |
| 257 | 2019 | J-F1233 | Kirchner Italia S.p.A. | B-8787-90/57 | 288 | 88.9 - 114.3 mm. O.D. A/SA 106 Gr.B,A/SA 335 P9 | 7.044 m. - 14.601 m. | 1.27 mm thick x 15.00 mm height. Solid,157 fins/m. | Rust Veto 377T |
| 258 | 2019 | J-F1234 | Boustead International Heaters | 739/240 | 72 | 114.3 mm. O.D.A376 TP347H | 9.473 m. - 10.370 m. | 1.27 mm thick x 19.00 mm height. Solid,196 fins/m. | Rust Veto 377T |
| 259 | 2019 | J-F1235 | Kirchner Italia S.p.A. | BAPCO(B-8797-99) | 104 | 88.9 mm. - 114.3 mm. O.D.SA-106 Gr.B | 16.981 m. - 19.517 m. | 1.27 mm thick x 12.7 - 21.00 mm height. Solid,177 - 197 fins/m. | Rust Veto 377T |
| 260 | 2019 | J-F1236 | Kirchner Italia S.p.A. | NESTE SINGAPORE EXPANSION PROJECT | 32 | 219.30 mm.O.D. A335P22 | 10.02 m.-10.865m. | 1.3 mm thk x 25.4 mm height. Solid 197 fins/m. | Rust Veto 377T |
| 261 | 2019 | J-F1237 | Vatana Phaisal Engineering | Long Son Project | 1,790 | 88.9 mm. - 168.3 mm. O.D.SA-106 Gr.B,304H,347H,P22,P11 | 16.30 m.-21.15m. | 1.27 mm thick x 12.7 - 25.4 mm height. Solid,118 - 236 fins/m. | Rust Veto 377T |
| 262 | 2019 | J-F1238 | J.J. Advanced | 10419/1806N002 | 180 | 60.3 mm. O.D. A335 P11 | 6.446 m. - 6.876 m. | 1.5 mm thk x 25.4 mm height. Solid 157.5 fins/m. | Rust Veto 377T |
| 263 | 2019 | J-F1239 | Kirchner Italia S.p.A. | B7993 | 1,840 | 42.3 - 60.3 mm. O.D. 316L,A213-T11,SA 213 T22,SA 213 T91,SA210A1 | 6.887m.-17.32m. | 1.25 mm - 1.50 mm thk x 12.7 mm - 15.9 mm height.Solid 138-197 fins/m. | Rust Veto 377T |
| 264 | 2019 | J-F1240 | J.J. Advanced | 51908/1907N045 | 24 | 73.025mm. - 141.30 mm. O.D. A106B | 9.564m.-10.952m. | 1.3 mm thk x 12.7 mm - 19.05mm height. Solid 197 fins/m. | Rust Veto 377T |
| 265 | 2019 | J-F1241 | Boustead International Heaters | 743/240 | 3,360 | 88.9 mm. O.D. A106B | 18.974 m. - 20.574 m. | 1.3 mm thk x 12.00 mm -16.00mm height. Solid 197 fins/m. | Rust Veto 377T |
| 266 | 2019 | J-F1242 | Boustead International Heaters | 748/240 | 200 | 42.2 mm. O.D. A335 P11 | 6.932 m. | 1.5 mm thk x 15.00mm height. Solid 197 fins/m. | Rust Veto 377T |
| 267 | 2019 | J-F1243 | Boustead International Heaters | 747/240 | 24,458 | 48.3 mm. O.D. SA312 TP 316H SS | 6.324 m. - 13.223 m. | 1.27 mm thick x 10.00 - 15.00 mm height. SERRATED,100-197 fins/m. | Rust Veto 377T |
| 268 | 2020 | J-F1244 | Boustead International Heaters | 749/240 | 916 | 48.3 mm. O.D. A335P11 | 5.274 m. - 5.948 m. | 1.30 mm thk x 16 mm height. Serr, 217 fins/m. | Tectyl 300G FT black |
| 269 | 2020 | J-F1245 | Boustead International Heaters | 746/240 | 648 | 88.9 mm O.D. P22,SA106B, A312 304H SS | 3.224 m. - 6.481 m. | 1.27 mm thk x 12.70 mm - 25.40 mm height. Solid, 197 fins/m. | Tectyl 300G FT black |
| 270 | 2020 | J-F1246 | Boustead International Heaters | 751/240 | 240 | 114.3 mm O.D.,SA106B | 7.852m. - 9.026 m. | 1.27 mm thk x 12.70 mm - 25.40 mm height. Serr, 118-197 fins/m. | Tectyl 300G FT black |
| 271 | 2020 | J-F1247 | Lotushitemp Metals co.,Ltd. | A03-00-20 | 5 | 50.80 mm O.D.,A213-T12 | 12.3 m. | 1.50 mm thk x 12.60 mm height. Solid, 333 fins/m. | Tectyl 300G FT black |
| 272 | 2020 | J-F1248 | Boustead International Heaters | 754/240 | 1,050 | 60.30 mm O.D.,A106B | 4.524 m.-4.652 m. | 1.27 mm thk x 13.00 mm height. Solid, 197fins/m. | Tectyl 300G FT black |
| 273 | 2020 | J-F1249 | ExxonMobil | 4551801638 | 24 | 88.9 mm O.D.,A312 TP 316H | 8.267 m.-9.714 m. | 1.27 mm thk x 12.70 mm height. Solid, 138fins/m. | Tectyl 300G FT black |
| 274 | 2020 | J-F1250 | Nooter Eriksen | Nikolaos | 18,027 | 31.8 mm -63.5 mm O.D.,A213-T11,SA 192,SA 213 T22,SA 213 T91,SA210A1 | 25.339 m.-26.529 m. | 0.8-1.00mm thk x 9.5 mm - 15.9 mm height. Solid,118.11 - 314.96fins/m. | Tectyl 300G FT black |
| 275 | 2020 | J-F1251 | International Heat Transfer Equipment Construction | IHEC-P-02-20-007 | 99 | 168.3 mm O.D.,SA106B | 6.000 m. | 1.27 mm thk x 12.70 mm - 25.4 mm. height. Solid, 197 fins/m. | Tectyl 300G FT black |
| 276 | 2020 | J-F1252 | Nooter Eriksen | NE-GPD Project | 70,588 | 31.75 mm. - 57.15 mm O.D. A213-T11,SA 192,SA 213 T22,SA 213 T91,SA210C,SA213-UNS-S30432,SA-789-S (S31803) | 22.75 m. - 23.662 m. | 0.80-1.00 mm thick x 8.00 - 15.88 mm height. Serr, 198.85-275.59 fins/m. | Tectyl 300G FT black |
| 277 | 2020 | J-F1253 | Nooter Eriksen | Golden Pass | 7,056 | 1.5"-2.0" O.D. 213 T22,SA 213 T91,SA210C | 66'-66.25' | 0.050" thk x 0.38" - 0.63". height. Solid and Serr, 3.38 - 6.00 fins/inch. | Tectyl 300G FT black |
| 278 | 2020 | J-F1254 | Vogt Power International | Nexif | 2,856 | 31.75 - 38.10 mm - O.D.,SA192,T22,T91,SA210 | 15.850 m. | 0.80-1.00 mm thk x 9.53 - 12.70 mm height. Serr-Solid, 122-307 fins/m. | Tectyl 300G FT black |
| 279 | 2020 | J-F1255 | Vogt Power International | B-Grimm | 48,076 | 31.75 - 38.10 mm - O.D.,SA178,T22 | 15.850 m. | 0.80-1.00 mm thk x 9.53 - 12.70 mm height. Serr, 94- 307 fins/m. | Tectyl 300G FT black |
| 280 | 2020 | J-F1256 | Vogt Power International | Glow | 9,280 | 31.75 - 38.10 mm - O.D.,SA210A1 and T11 | 17.0688 m. | 0.80-1.00 mm thk x 12.70 mm height. Serr, 134-307 fins/m. | Tectyl 300G FT black |
| 281 | 2020 | J-F1257 | Boustead International Heaters | 756/240 | 8,160 | 42.2 mm -48.3mm O.D.,ASME SB407 N08800 | 6.324 m. - 8.00 m. | 1.27 mm thk x 12.00 mm height. Serr 180 fins/m. | Tectyl 300G FT black |
| 282 | 2020 | J-F1258 | Boustead International Heaters | 755/240 | 824 | 114.3 mm -141.3mm O.D.,ASTM A106 Gr B | 6.058 m. - 8.433 m. | 1.27 mm thk x 12.7 -25.4 mm height. Solid 158-197 fins/m. | Tectyl 300G FT black |
| 283 | 2020 | J-F1259 | Boustead International Heaters | 750/240 | 176 | 168.3 mm O.D.,A335 Gr P5 | 10.032 m. - 12.00 m. | 1.27 mm thk x 12.0 -25.4 mm height. Solid 157-197 fins/m. | Tectyl 300G FT black |
| 284 | 2021 | J-F1260 | Vatana Phaisal Engineering | APCI Texas City Project and APCI Jubail Project | 3,764 | 1.9"-4.5" O.D.,A335 Gr P11,TP304H,SA106B and B407 N08811 | 46.042' -48.75' | 1.5 mm thk x 0.375"-0.75" height. Serr 3.5 - 5 fins/Inch. 410SS,304SS and CS | HV-1001N(B |

PROJECT EXPERIENCE LIST : FINNED TUBE

| No. | Year | Job No. | Customer Name | Project Name | Q'ty | Tubes : | Tube Length | Fins : | Coating Type |
|-----|------|---------|--------------------------------|--|-------|---|----------------------|--|-----------------------------------|
| 285 | 2021 | J-F1261 | Vatana Phaisal Engineering | KT K383 Dos Bocas Refinery ICA Fluor Project | 384 | 114.3 mm O.D., A312 TP317L | 8.900 m. - 10.089 m. | 2.65 mm thk x19.mm height. Sol 157 fins/Inch. 11-13Cr | HV-1001N(B) |
| 286 | 2021 | J-F1262 | Boustead International Heaters | 758/240 | 1,203 | 60.3 mm O.D., A335 Gr P22 | 5.324 m. - 6.000 m. | 1.27 mm. thk x 12.7 mm height. Serr 197 fins/m., 409SS | HV-1001N(B) |
| 287 | 2021 | J-F1263 | Vatana Phaisal Engineering | KT-Assiut-Egypt Project | 72 | 114.3 mm O.D., A335 Gr P9 | 9.245 m. - 9.813m. | 2.65 mm thk x19.mm height. Sol 157 fins/Inch. 11-13Cr | HV-1001N(B) |
| 288 | 2021 | J-F1264 | Vatana Phaisal Engineering | Dos Bocas-Mexico Project | 112 | 141.3-168.3 mm O.D., A335 Gr P11 and TP321 | 6.960m. - 9.108m. | 1.30 mm thk x25.40mm height. Sol 138-197 fins/Inch. 11-13Cr, CS | HV-1001N(B) |
| 289 | 2021 | J-F1265 | Lummus Technology | Baltic Chemical Complex LLC (BCC) | 8,714 | 73.00-168.3 mm O.D., A106,P91,P5 and TP347H | 10.514m. -21.402m. | 1.27mm thk x 12.70-25.40mm height. Sol 128-197 fins/Inch. 11-13Cr,CS,18Cr-8Ni | HV-1001N(B) |
| 290 | 2021 | J-F1266 | Lotushitemp Metals co.,Ltd. | A02-005-21 | 24 | 141.3 mm O.D.,TP304H | 10.380 m. | 1.30 mm thk x12.70mm height. Sol 59 fins/Inch. 304SS | N/A |
| 291 | 2021 | J-F1267 | Kirchner Italia S.p.A. | KI-/B-5008 | 52 | 141.30 mm - 168.3 mm O.D TP347H and TP321H | 4.760 m. - 12.313 m. | 1.30 mm - 1.5 mm thk. X 25.4 mm height, Sol. 197 fins/meter, 11-13Cr and CS | HV-1001N or BTectyl 300G FT black |
| 292 | 2021 | J-F1268 | Jord International Pty Ltd | C7709 | 4,248 | 38.1 mm OD., T22, SA-210A1 and TP430 | 14.405 m. | 1.25 mm thk. X 19 mm height, Serr. 150 - 236 fins/meter,409SS, 410SS and CS | HV-1001N or BTectyl 300G FT black |
| 293 | 2021 | J-F1269 | Nooter Eriksen | North Field Project | 3,500 | 38.1 mm - 50.8 mm. OD., T22 and SA-210A1 | 9.400 m. - 9.959 m. | 1.50 mm thk. X 12.7-15.9 mm height, Serr. 167-221 fins/meter,409SS and CS | HV-1001N or BTectyl 300G FT black |
| 294 | 2021 | J-F1270 | Boustead International Heaters | 761/240 | 434 | 114.3 mm. OD.,A106B | 6.724 m. - 7.595 m. | 1.27 mm thk. X 12.7-25.4 mm height, Solid. 79 - 236 fins/meter, CS | HV-1001N or BTectyl 300G FT black |
| 295 | 2021 | J-F1271 | Boustead International Heaters | 762/240 | 40 | 168.3 mm. OD.,A106B | 6.232 m. - 6.582 m. | 1.5 mm thk. X 25.4 mm height, Solid. 197 fins/meter, CS | HV-1001N or BTectyl 300G FT black |
| 296 | 2021 | J-F1272 | Primoris Services Corporation | OnQuest PO 9522-08 | 20 | 141.30 mm - 168.3 mm O.D A106B | 3.976 m. - 5.138 m. | 1.27 mm and 1.50 mm thk. X 25 mm height, Solid. 197 fins/meter, CS | HV-1001N or BTectyl 300G FT black |
| 297 | 2021 | J-F1273 | Boustead International Heaters | 759/240 | 2,288 | 42.2 mm - 48.3 mm O.D A106B,304H and 321SS | 7.521 m. - 8.499 m. | 1.27 mm. X 10 mm - 16 mm.height, Solid. 197 fins/meter, CS,304ss and 409SS | HV-1001N or BTectyl 300G FT black |
| 298 | 2022 | J-F1274 | J.J. Advanced | 52140/2112N018 | 20 | 114.3 mm O.D SS316L | 3.324 m. | 1.27 mm. X 12.70 mm - 25.4 mm.height, Solid. 197 fins/meter,304ss | N/A |
| 299 | 2022 | J-F1275 | Boustead International Heaters | 763/240 | 880 | 60.3 mm O.D A106B and P11 | 14.324 m. -15.00 m. | 1.27 mm. X 12.7 mm - 16 mm.height, Solid. 137-236 fins/meter, CS | HV-1001N or BTectyl 300G FT black |
| 300 | 2022 | J-F1276 | Boustead International Heaters | 764/240 | 1,224 | 42.2 mm O.D A335 P11 | 3.174 m. -3.264 m. | 1.27 mm. X 12.7 mm - 12.70 mm.height, Serr 217 fins/meter,409SS | HV-1001N or BTectyl 300G FT black |
| 301 | 2022 | J-F1277 | Nooter Eriksen | NE-QAPCO Project | 1,107 | 31.75-38.10 mm O.D A213-T11 and SA192 | 17.850 m. -18.408 m. | 0.8 mm. X 12.7 mm - 12.70 -15.90 mm.height, Serr172-315 fins/meter,409SS and CS | HV-1001N or BTectyl 300G FT black |
| 302 | 2022 | J-F1278 | Lotushitemp Metals co.,Ltd. | A01-024-22 | 6 | 114.3 mm O.D.,A106B | 9.750 m. | 1.27 mm thk x 25.40 mm height. Sol 236 fins/Inch. CS | HV-1001N or BTectyl 300G FT black |
| 303 | 2022 | J-F1279 | Vogt Power International | Saha Cogen MSG | 2,556 | 31.75-38.1 OD., T91,T22,SA210A1 | 15.644 m.-15.702 m. | 0.8 mm -1.0 mm x 12.7 mm height Serr, 157.48 - 307.09 fins/ meter, 409Ss and CS | HV-1001N or BTectyl 300G FT black |
| 304 | 2022 | J-F1280 | Vogt Power International | Glow 2 | 4,744 | 1.25"-1.5", T91, T22 and SA210A1 | 55.374'-55.407' | 0.032"-0.039" x 0.5" height Serr, 5.5-7.8 fins/ inch, 409SS and CS | HV-1001N or BTectyl 300G FT black |
| 305 | 2022 | J-F1281 | Nooter Eriksen | Dradenau | 5,082 | 31.80-38.1 OD., T91,T22,SA210A1 | 10.18 m - 14.127 m | 0.8 mm -1.0 mm x 12.7 mm - 15.90 mm. height Serr, 152.56-314.96fins/ meter, 409Ss and CS | HV-1001N or BTectyl 300G FT black |