



FORGE & GRIND

COMPANY BROCHURE

F.G. STEEL WORKS CO.,LTD.

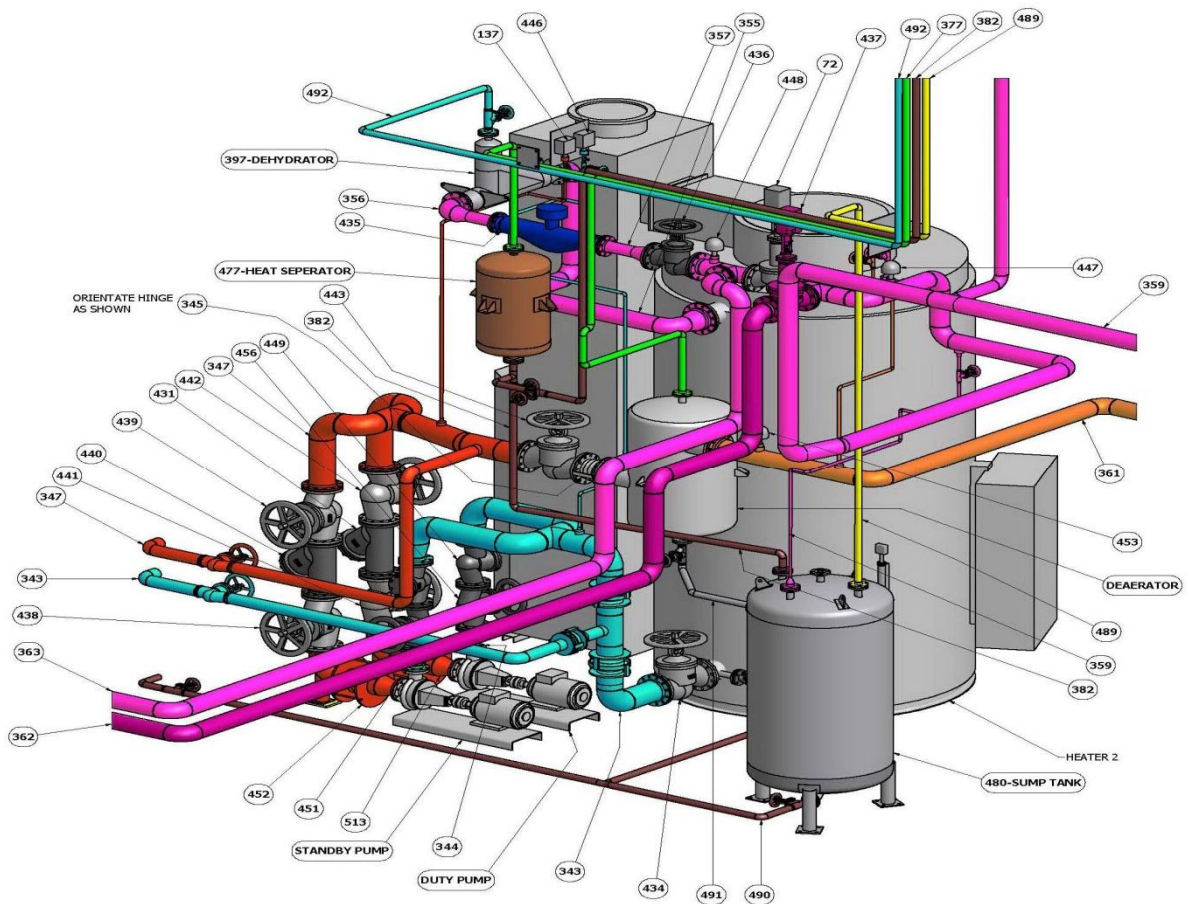
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PREFACE

Our office : 50/739 Chaengwattana-Pakkret 33 Rd. Moo 9, Tumbol Bangpood,

Amphur Pakkret, Nonthaburi 11120

Tel : (66) 0-2984-0975-7, (66) 0-2503-4482-4

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INTRODUCTION

F.G. STEEL WORKS Co., Ltd. Wholly owned Thai company established in 1981 by a group of professional engineers with years of experience in the field of mechanical works.

F.G. has steadily built up the expertise and specialization over a decade for the consolidated team work to service our customers.

F.G.'s reputation have been recognized and proven by maintaining long standing relationship with reference customers.

F.G. is reliable for its superior of quality and commitment for delivery within schedule to meet customer's satisfaction. It is our highest policy to provide the first class services and top quality works to our customers.

F.G. offers the full services for mechanical works in lines of shop fabrication for customer order of steel work, steel structure erection, on site vessel fabrication, piping work, machine installation and insulation work.

F.G.'s commitment to provide the customer after-sale services ensuring the highest degree of customer's satisfaction.

F.G.'s philosophy to serve our promising clients for satisfaction of better services, maintaining quality standard and long term business relationship making our company the forefront as reliable mechanical contractor.



COMPANY PROFILE & QUALITY CONTROL POLICY

F.G.'s fabrication shop are fully equipped to undertake a wide variety of machining of steel works, cover a floor area of 6,400 square meters, consisting of manpower :

8 Engineers

15 Foremans

10 Qualified welders

150 Workers

150 workers are our permanent people, number of workers can be increased depending on work volume, we have ever increased them (temporary) till nearly 350 persons.

The fabrication shop are arranged with complete facilities that included overhead crane, heavy duty plate bending and cutting machines, necessary machine tools and over 60 sets of welding machines.

As part of its manufacturing services, F.G. offer through quality control and inspection service by our inspector or by independent inspector designated by customer to ensure that strictly quality control level are maintained at all times to meet customer's standards/specifications.



FABRICATION

Each year 1,800 ton of steel and stainless steel is fabricated from our work shop,
the work was done according to API, ASME & AWWA standard .

Some of our works were exported to these country i.e :

Srilangka

Vietnam

Bangkhadesh

South Africa

Australia

Some type of fabricated products :

Pressure vessel such as reactor, heat exchanger etc.

Storage tank and silo

Conveyor system

Waste treatment plant

Dust collecting system and other duct work.

Steel structure



INSTALLATION

Our installation section is servicing (under engineering knowledge of principal of safety, rigging method, alignment precision) for :

Equipment installation

Plant renovation

Plant relocation

Our experience in some of these plant :

Equipment installation :

Paper Mill

Chemical plant

Modified Starch plant

Paint manufacturing

Equipment installation & plant relocation :

Quality Coffee (Nescafe) plant

Cable manufacturing plant

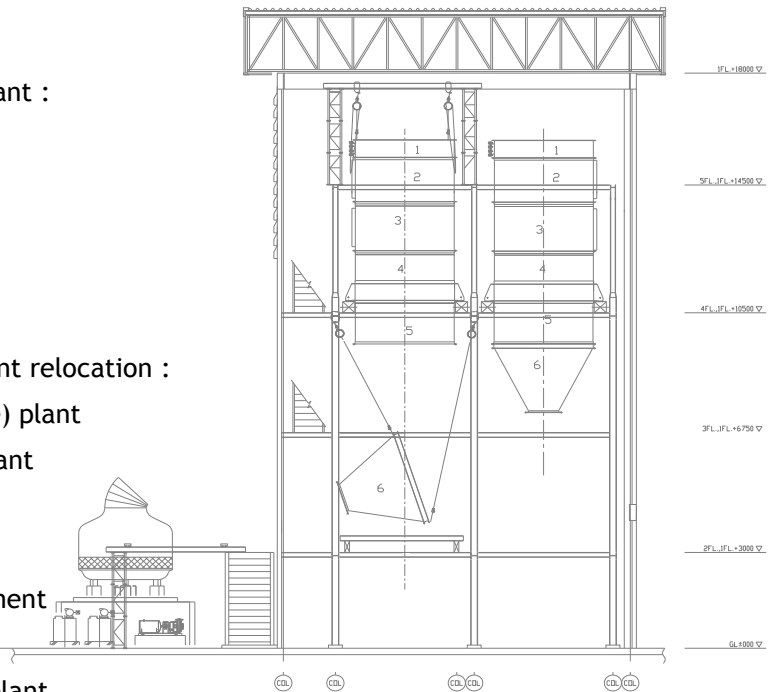
Lube oil manufacturing

Gypsum board manuf.

Amusement ride equipment

Plant renovation

Asbestos pipe forming plant



PIPING, DUCT & INSUALTION

Our service is :

Chemical plant piping

Lube oil piping

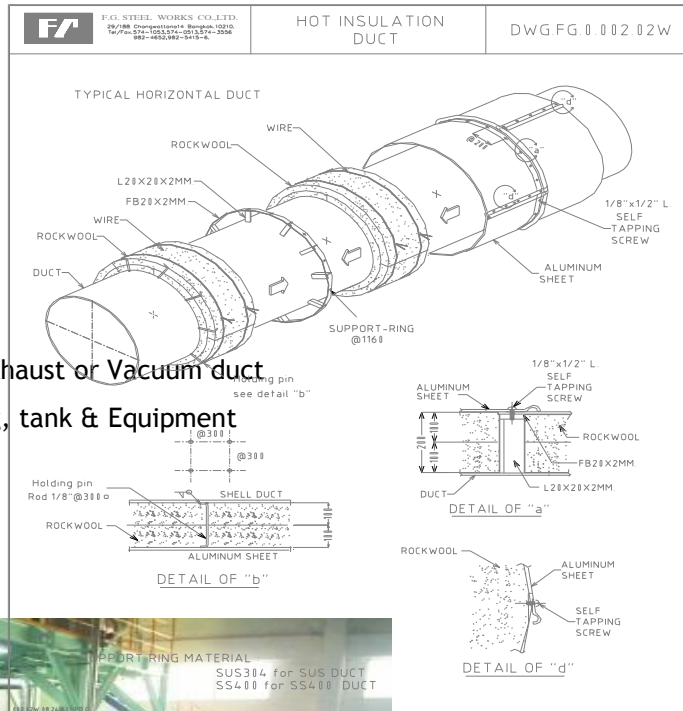
Power plant piping

Waste water piping

Chiller piping

Pneumatic conveying duct & Exhaust or Vacuum duct

Hot & Cold insulation for Piping, tank & Equipment



SAMPLE of OUR WORK



Product : 2,000 cu.m Clarifier tank

Project : Kaeng Khoi-2 Power plant



Product : Reactor tanks

Project : Srilangka Chemical plant



Product : Chemical storage tanks

Project : Tayca Chemical plant



Product : Screw conv., Bucket Elev., Silo
Steel structure

Project : Siam Moulding Plaster Plant

SAMPLE of OUR WORK



Product : Chemical piping & insulation

Project : TGCI Resitop Chemical plant



Product : Paint mixing tanks

Project : 4-Orange paint manuf.

Vietnam



Product : Power plant piping

Project : 9 Mw. Rice Haust Power plant

Electrowatt / Maboon Kong



Product : Revolving platform

Project : Revolving Restaurant

Chittagong, Bangladesh

SAMPLE of OUR WORK



Product : Welder qualification test
- ASME Section IX
Project : 9 Mw. Rice Haust Power plant
Electrowatt / Maboon Kong



Product : Steel structure pre-fabrication
Project : Troy Siam Chemical plant



Product : Regain pipe forming machine
Project : Siam Navatan asbestos pipe
manufacuturing plant



Product : Installation of Hanging Coaster
Project : Dream World

MANUFACTURING FACILITIES

In the working area of 6,400 sq.m near Thammasart University (Rangsit Campus)



completed with 300 kVA power supply and deep well water supply, material and labour force will be available conveniently.

Many of equipments are prepared to complete a work pleasantly to meet the specification or the customer requirement.


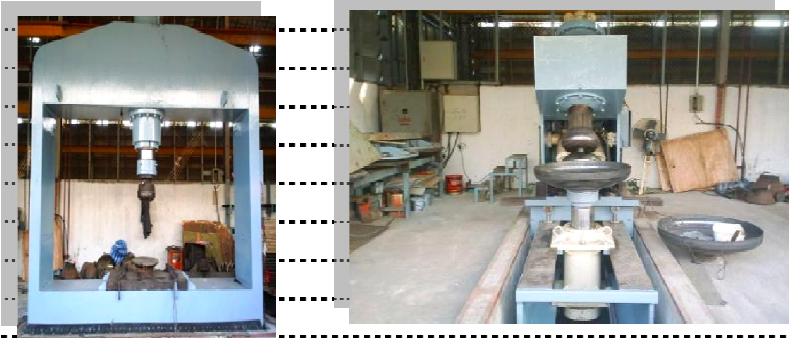


Hoist & Tir Foul test station

TOOL LIST

No.	Description	Capacity	Q'ty
1	Rolling machine	6 ft x 3/4"	1
		6 ft x 1"	1
		6 ft x 3/8"	1
		7 ft x 3/16"	1
2	TIG welding machine	500 A	10
3	Shield metal arc welding machine	300-500 A	60
4	Metal inert Gas welding machine	300A	4
5	Automatic submerge arc welding machine	600A	1
			
6	Hydraulic punching machine	5/8"	2
7	Plasma cutting machine	2"	2
		3/4"	2
8	Automatic gas cutting machine		4
9	Pipe cutting machine		1
10	Automatic duplicate gas cutting machine		1
11	Air compressor	8 Bar	6
12	Pipe threading machine	3"	2
		2"	2
13	Chain hoist	10 tons	4
		5 tons	6
		3 tons	8
		1.5 tons	8

TOOL LIST

<u>No.</u>	<u>Description</u>	<u>Capacity</u>	<u>Q'ty</u>
14	Tir Foul	3 tons	3
		1.5 tons	4
15	Electric winch	3 tons	1
		1.5 tons	1
16	Welding rod oven		2
17	Rolling tank	30 tons	12
18	Hydraulic ram	280 tons	1
		100 tons	1
19	Lathe machine	4 ft	1
		8 ft	1
		6 ft	1
			
20	Planing machine		1
21	Vertical milling machine		1
22	Head pressing machine	200 tons	1
23	Head forming machine	1 "	1
			
24	Power press	35 ton	1
		50 ton	1
25	Radial drilling machine	6 ft	1
		3 ft	1
26	Saw Band	8 "	1

TOOL LIST

No.	Description	Capacity	Q'ty
27	Shearing machine (Guillotine type)	12 ft x 8 mm.	1
		14 ft x 6 mm	1
28	Hydraulic Press Brake machine	150 tons x 4.3 m.	1
		100 tons x 2.5 m	1



29	Overhead crane	2 ton	1
		3 ton	1
		5 ton	3
30	Gantry crane	3 ton	1
31	Truck crane	4 ton	1
32	Forklift	3 ton	1
33	Alignment tools :		
	Transit level	-	4
	Theodolite level	-	2
	Precision Instrument	-	-
34	Test & Inspection tools :		
	Vibration meter	-	1
	Revolution meter	-	1
	Temperature meter	-	1
	Ultrasonic thickness meter	-	1
	Digital coating thickness gauge	-	1

WORK EXPERIENCE

Year	Project	Client	Amount (฿)
1984-1994	Plant extension - Yakult	Yakult (Thailand) Co., Ltd	6,200,000
	Insecticide & Herbicide plant	Bayer Thai Co., Ltd	5,000,000
	Installation of Dream World 1994	Park Amusement Co., Ltd	25,000,000
	Dryer plant	Siam Modify Starch Co., Ltd.	9,000,000
	Modified starch plant - Chaiyaphum	Siam Quality Starch Co.,Ltd.	30,000,000
	Water Borne paint manuf. - ICI	ICI Paint (Thailand) Co., Ltd.	55,000,000
	Paper mill	Supattanagorn Paper Mill	5,000,000
	Paper mill	Thai Scott Paper Mill Co., Ltd.	5,500,000
	Dismantle of Coffee plant - Nescafe'	Thai Soluble Coffee Co.,Ltd.	4,500,000
	Instant Coffee Plant - Nescafe'	Quality Coffee Product	6,000,000
	CDCC machine	Charoong Thai Wire & Cable	4,500,000
	Underground tank & FW. pipe	ICI Paint (Thailand) Co., Ltd	6,000,000
	Steel struc. for artificial rock	Future Park	5,500,000
	Mod. of amusement playing equip.	Park Amusement Co., Ltd.	7,000,000
	Steel structure & piping work	Siam Modify Starch Co., Ltd.	7,500,000
	Water & Solvent Borne painting	Siam Paint Co., Ltd	9,600,000
	ERC Plant	Thai Mitsui Specialty Chemicals	7,500,000
	Resin paper CCL plant	TSK Engineering (Thailand) Co.,Ltd.	8,500,000
	- Matsushita Electric Work		
1995-1998	Gypsum Board dryer plant	Siam Gypsum Industry Co., Ltd	6,150,000
	Alkyd resin plant	Troy Siam Co., Ltd.	13,400,000
	Alkyd resin plant	Thai Polyset Chemical Co., Ltd	5,200,000
	Ceramic roof tile plant - Inter roof	Applied Contract Co., Ltd.	19,000,000
	Lubrication oil plant - Veloil	Product Development Manufacturing	13,400,000
	Chemical plant	Phattanapan Chemical Co., Ltd	6,500,000
	Utility piping work	Quality Coffee Products Ltd.	11,000,000
	Polycarbonate packing plant - AIT I	TSK Engineering (Thailand) Co.,Ltd.	15,200,000
	Tapioca Root washing machines	Siam Quality Starch Co., Ltd	7,700,000
	Service pipe for CLC project	Quality Coffee Products Ltd.	5,000,000
1999	Piping for Reactor plant	Siam Modify Starch Co., Ltd	6,500,000
	Seive plant	Siam Quality Starch Co., Ltd	4,700,000
	Utility pipe	Nestle Dairy (Thailand) Ltd.	5,000,000
	Steel structure - Packing plant	Rohm & Haas Chemical Co., Ltd.	3,000,000
2000-2001	Modified Starch - Asia Modified plant	TSK Engineering (Thailand) Co.,Ltd.	12,200,000
	Relocation of amusement rides	Park Amusement Co., Ltd.	7,000,000
	Plant maintenance	Rohm & Haas Chemical Co., Ltd.	4,800,000
	Modify & Extension of equipment	Siam Modify Starch Co., Ltd.	5,500,000
	Milk plant	Nestle Food Co., Ltd.	21,800,000
	Fabrication 7 Overhaul playing equip.	Park Amusement Co., Ltd.	5,000,000
	Reactor plant - Thai GCI Resitop	TSK Engineering (Thailand) Co.,Ltd.	6,500,000
	Plant maintenance	Siam Modify Starch Co., Ltd	6,400,000
	Plant maintenance & overhaul	Siam Modify Starch Co., Ltd	5,800,000
	Reactor plant	Phattanapan Chemical Co., Ltd.	4,000,000

WORK EXPERIENCE

Year	Project	Client	Amount (฿)
2002	Coffeemate extension project	Nestle Manufacturing Co., Ltd.	11,200,000
	Coffee extension project	Quality Coffee Products Ltd.	16,600,000
	Fabrication playing equipment	Park Amusement Co., Ltd	4,300,000
	Fabrication tanks - AIT Project II	TSK Engineering (Thailand) Co.,Ltd.	4,000,000
	Detergent plant - TAYCA	TSK Engineering (Thailand) Co.,Ltd.	21,800,000
	Chemical storage tanks	Phattanapan Chemical Co., Ltd .	3,900,000
	Piping of Co-generation plant - Maboongkrong Rice Mill	Promech Co., Ltd.	3,500,000
2003	Overhaul of Dream world	Park Amusement Co., Ltd.	5,500,000
	Particle Board plant	Phang Nga Parawood Co., Ltd.	9,800,000
	Crystallizer tank - Tostem	K.T. Tawan Co., Ltd.	3,500,000
	Reactor plant	Troy Siam Co., Ltd.	4,000,000
	Renovation asbestos pipe plant	International Water Pipe Co., Ltd.	3,500,000
	Overhaul dryer plant	Siam Quality Starch Co., Ltd.	3,700,000
	NCO & PPG Plant	Thai Mitsui Specialty Chemicals	5,200,000
2004	Soap solution & detergent plant - Saraya Manuf.	TSK Engineering (Thailand) Co.,Ltd.	15,900,000
	Alkyd resin plant - BN. Brother	Sebring Co.,Ltd.	5,300,000
	No. 500 Autoclave plant	Siam Moulding Co., Ltd.	5,200,000
	Relocation Calcide plant -I	Siam Gypsum Industry Co.,Ltd.	7,000,000
	Wire rope & counter weight system - Siam Niramit	Ratcada Treater Co.,Ltd.	23,500,000
	Water & Solvent borne plant - VIETNAM	4 Orange Co.,Ltd.	29,000,000
	Mixing tank - TOYO Ink	K.T. Tawan Co.,Ltd.	6,400,000
	Stainless tank	Siam Quality Starch Co.,Ltd.	6,700,000
	Thai GCI Resitop extension plant	TSK Engineering (Thailand) Co.,Ltd.	21,700,000
	Adeka Fine Chemical plant		9,700,000
2005	Yoshiro (Thailand) Chemical plant		5,800,000
	Dipsol Bang Plee project		3,000,000
	Reactor plant - TOYO Ink	K.T. Tawan Co.,Ltd.	11,500,000
	Water treatment plant - ATB power plant	Neomaster Co.,Ltd.	3,000,000
	Plant expansion	Troy Siam Co.,Ltd	8,100,000
	Pamper machine install	Procter & Gamble Manufacturing Co.,Ltd.	4,400,000
	Compressed air & chilled water pipe	Perrier Vittel (Thailand) Co.,Ltd.	3,000,000
2006	Stainless mixing tank fabrication	Thai Kansai Paint Co.,Ltd.	9,300,000
	Water treatment plant - Khaeng Koi power plant	Neomaster Co.,Ltd.	18,600,000
	Alkyd plant - VIETNAM	Phattanapan Chemical Co.,Ltd.	13,500,000
	Revolving restaurant - BANGKLADESH	Concord Group	9,000,000

WORK EXPERIENCE

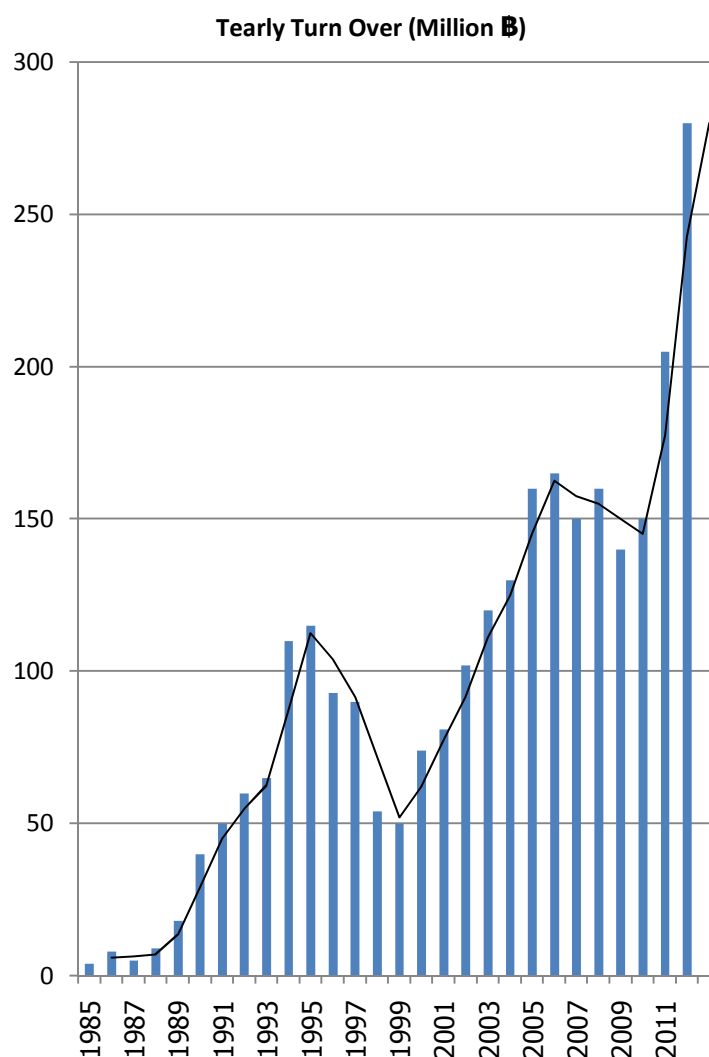
Year	Project	Client	Amount (฿)
2006	Vessel fabrication - Kao PHILLIPINE	K.T. Tawan Co.,Ltd.	4,800,000
	Reactor set - Thai Mitsui		9,000,000
	Mixing tank - KRT project		19,700,000
	Cascade cooler & Stainless tanks	TSK Engineering (Thailand) Co.,Ltd.	4,000,000
	- TAYCA		
	Stainless storage tank - Alcohol plant		5,100,000
	-Thai Roong Ruang Energy		
	Chiller plant - PTT Research center	Accord Co., Ltd	3,400,000
2007	Bangkok Crystal extension plant		2,500,000
	Fabrication equipments D line	TSK Engineering (Thailand) Co.,Ltd.	17,700,000
	- Tostem		
	Waste gas boiler - Navigat Indonesia	DGA Co.,Ltd.	3,500,000
	Bag house - Applied group Australia	Engineering Solution Inter. Co.,Ltd.	4,500,000
	Reactor set - Thai Mitsui	K.T. Tawan Co.,Ltd.	6,000,000
	Stainless Hopper - Toyo Ink	K.T. Tawan Co.,Ltd.	3,500,000
	Waste water tank - Tostem	K.T. Tawan Co.,Ltd.	4,200,000
2008	Mixing tank - General paint Srilangka	Paint & General Co.,Ltd.	5,600,000
	Dispersing plant	Troy Siam Co., Ltd.	5,200,000
	Steel tower & Machine installation	Bangkok Cable Co.,Ltd.	4,700,000
	Lube oil plant	TSK Engineering (Thailand) Co.,Ltd.	4,000,000
	Thermoplastic plant	Matsushita / TSK	5,300,000
	Carbon Black plant	Bridgestone / TSK	10,000,000
	Baristar plant	Thai Mitsui Specialty Chemicals Co.,Ltd.	5,000,000
	Coconut fiber burner-Vibrating grate	DGA Co.,Ltd.	12,000,000
	Bottle storage tank & Stainless platform	Yakult / Obayashi	16,700,000
	Stainless steel storage tank	Tokoyama / K.T. Tawan Co.,Ltd.	8,400,000
	& Heat exchanger fabrication		
	Plaster cement plant	Siam Moulding Co.,Ltd.	26,000,000
	Multishaft disperser	Paint & General Co.,Ltd. - Srilangka	3,200,000
	Provision of Bucket Elevator	Thermal Innovation Co.,Ltd. - Australia	19,000,000
	Chain conveyor, Bag breaker		
	Fish feed mill	Betrigo	4,100,000
2009	Mixing tank - Solvent borne paint	Precision Co.,Ltd.	4,000,000
	Extend packing hall - DFZ proj.	Syngenta Crop. Protection Ltd.	6,000,000
	Chemical tank - Butanol & Styrene	Thai Mitsui Specialty Chemicals Co.,Ltd.	2,600,000
	Bottle storage tank	Yakult / Obayashi	12,500,000
	& Stainless platform (Phase-2)		
	Thermal oxidiser & Simveyor - Australia	Applied Contract Ltd.	11,000,000
	Coconut fiber burner-Vibrating grate	DGA Co.,Ltd.	10,000,000
	Rubber mixer project	Bridgestone / TSK	18,500,000
	Chemical plant - AT3 Proj.	Adeka / TSK	7,000,000
	Chilled water pipe	Nestle' Thai	2,500,000
2010	Thermal oxidiser plant	ESI / Australia	12,500,000
	Chemical plant - Equip. Install & Piping	Saiden / TSK	3,000,000
	Chemical plant - Equip. Install & Piping	Soken / TSK	7,500,000
	Mixing tank - Barista Project	Thai Mitsui Specialty Chemicals Co.,Ltd.	6,000,000
	Coconut fiber burner-Vibrating grate	DGA Co.,Ltd.	12,000,000
	Mixing tank - Fabrication	Thai Nippon / Chukyo Yushi	4,000,000
	Mixing tank - Fabrication	Thai Nippon / Tim Food	11,000,000
	Mixing tank - Fabrication	Thai Mitsui Specialty Chemicals Co.,Ltd.	3,000,000
	Chemical Plant - Reactor	Troy Siam Co., Ltd.	8,000,000
	Chemical Plant - Reactor	Sebring / BN Brother	4,000,000

WORK EXPERIENCE

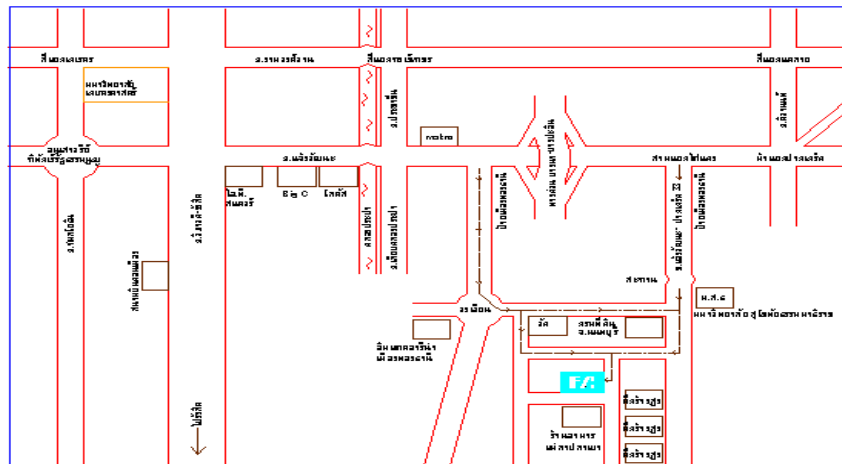
2011	Structure work	Nestle Thai	9,500,000
	TTC 2nd.Sulfonation Plant	Tayca / TSK	50,000,000
	Chemical Plant - Renovation work	Thai Young Chemical Co.,Ltd.	8,000,000
	Chemical Plant - Reactor	Shin Chem - Vietnam	4,500,000
	New Plaster Plant	Siam moulding Plaster Co.,Ltd.	75,000,000
2012	Chemical Plant - Cir. cleaning proj.	Sankyu Thai co.,Ltd.	10,000,000
	Mixing tank - Fabrication	Akzo Nobel Co.,Ltd.	5,000,000
	Lime Hydrate Plant	Aris Inter / Chememan	40,000,000
	Chemical Plant - Plant expansion	Thai Young Chemical Co.,Ltd.	30,000,000
	Combustion, Stack, Chain Conv.	ESI / Indonesia	17,500,000
	Mixing tank - Fabrication	Thai kansai Paint	15,000,000
	Chemical Plant - Expansion phase 3	Troy Siam Co., Ltd.	47,000,000

YEARLY TURN OVER

Year	Million (฿)
1985	4
1986	8
1987	5
1988	9
1989	18
1990	40
1991	50
1992	60
1993	65
1994	110
1995	115
1996	93
1997	90
1998	54
1999	50
2000	74
2001	81
2002	102
2003	120
2004	130
2005	160
2006	165
2007	150
2008	160
2009	140
2010	150
2011	205
2012	280

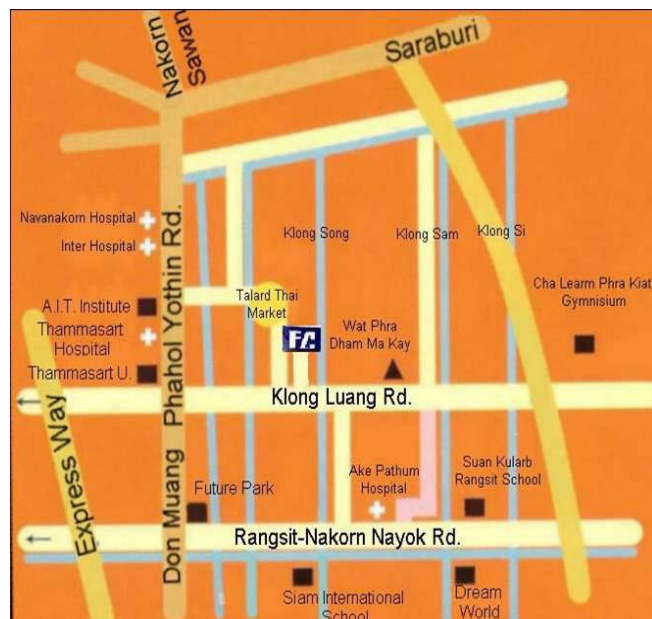


LOCATION



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