

# THEREC CORPORATION LTD.

## Bulk Material Handling Project Reference List

### Dutch Mill Co., Ltd.

#### Nakornprathom

System description : Positive Pneumatic Conveying System

Equipment description: Bulk bag unloading station with Stainless steel dumping tank, Cyclone, Jet pulse bag filter, Control Panel, Rotary valve and Blower

Main blower : Centrifugal, 15.0 hp

Control : Analog

Handling Material : Sugar

Capacity : 3,600 kg/hr

Total Distance : 14 m

Year : 1999

Value : 510,000.00 Baht

### Nestle (Thailand) Co., Ltd.

#### Nawanakorn plant

System description : Positive Pneumatic Conveying System (modified job)

Equipment description: Quick cleaning Dairy Valve size 8.0" ,in sus 316(Food grade rotary valve , USDA approved)

Long radius bends , compression coupling, piping work

Acoustic enclosure for three of Arzen (existing ) blower

Main blower : Roots blower

Handling Material : Milk powder

Capacity : 500 kg/hr

Total Distance : 28 m

Year : 2000

Value : 685,000.00 Baht

### Dairy Plus Co., Ltd.

#### Nakornsawan

System description : Negative Pneumatic Conveying System,

From Washing machine to Crusher

Equipment description: Cyclone, Inline filter, Control Panel, Butterfly valves and Blower

Main blower : Roots, 10.0 hp

Control : Analog

Handling Material : Soya bean ,wet

Capacity : 1300 kg/hr

Total Distance : 30 m

Year : 2000

Value : 580,000.00 Baht

---

**THEREC CORPORATION LTD./ บริษัท เทอร์เรคคอปอเรชั่น จำกัด**

105/156 ม.4 ถนน กาญจนภิเษก บางบอน กรุงเทพฯ 10150 โทร 662 893 9003-4 (4 lines) แฟกซ์ 662 893 9005

E-mail : sales@thereccorp.com

Web-site : www.thereccorp.com

## **Thai Offset Co., Ltd.**

### **Samuthprakarn, Well Grow industrial Estate**

System description : Positive & Negative Pneumatic conveying system,  
From Bulk bag to 6 silos

Equipment description: Cyclone, Inline filter, Control Panel, Rotary valve and Blowers  
6 units Stainless steel Storage silo

Main blower : Roots, 15.0 hp, 2 units, (1 unit for stand by)

Control : Analog

Handling Material : Low density PE pellet

Capacity : 5,000 kg/hr

Total Distance : 40 m

Year : 2000

Value : 1,800,000.00 Baht.

## **BMA I (โรงงาน บำบัดน้ำเสีย กทม. ,ดินแดง)**

### **Dindeang, Bangkok**

System description : Positive Pneumatic conveying system,  
From Dumping station to 6 silo

Equipment description: Dumping station with self cleaning bag filter set, Rotary valve  
and Blower

Main blower : Roots, 10.0 hp

Handling Material : Lime

Capacity : 1,650 kg/hr

Total Distance : 40 m

Year : 2000

Value : 400,000 Baht.

## **Dairy Plus Co., Ltd.**

### **Nakornsawan**

System description : Positive Pneumatic Conveying System,  
From Blow Molding machine to Silo

Equipment description: Diverter valve (In house PVC fabricating valve), Control panel and  
Blowers

Main blower : Centrifugal, 2.0 hp, 2 units

Control : Analog

Handling Material : Plastic Bottle

Capacity : 1000 bottle/hr

Total Distance : 80 m

Year : 2001

Value : 200,000 Baht

## **Thai Offset Co., Ltd.**

### **Samuthprakarn (Well Grow industrial Estate)**

System description : Negative Pneumatic conveying system

From 6 storage silos to 8 Jet loader hoppers

Equipment description: Cyclone, Inline filter, Control Panel and Blower

Main blower : Ring, 7.5 hp

Control : Analog

Handling Material : Low density PE pellet  
Capacity : 500 kg/hr  
Total Distance : 40 m  
Year : 2001  
Value : 220,000.00 Baht.

### **Thai KK Industry Co., Ltd**

#### **Samuthprakarn,**

System description : Negative Pneumatic conveying system and Compactor Machine  
Control system  
From dumping tank to Compactor machine  
From Compactor machine to Bag filling hopper

Equipment description: Cyclone, Jet pulse bag filter receiver, Inline filter, Control Panel  
Rotary Valve, Butterfly valve and Gate valve, Stainless steel  
Loading tank, Piping work, Wiring work

Main blower : Roots, 10.0 hp  
Control : Fully automatic system, PLC control, SIEMENS S7 series 300  
Handling Material : Urea and Melamine powder and pellet  
Capacity : 1500 kg/hr  
Total Distance : 30 m  
Year : 2002  
Value : 2,100,000.00 Baht.

### **Thai KK Industry Co., Ltd**

#### **Samuthprakarn,**

System description : Negative Pneumatic conveying system  
From Dumping tank to Compactor machine

Equipment description: Cyclone, Jet Pulse Bag filter Receiver & Inline filter

Main blower : Ring, 5.5 hp  
Control : Fully automatic system, Programmable Control Relay, SIEMENS LOGO  
Handling Material : Urea and Melamine powder and pellet  
Capacity : 500 kg/hr  
Total Distance : 15 m  
Year : 2002  
Value : 270,000.00 Baht.

### **Thai Wah (Public) Co., Ltd.**

#### **Nakornprathom**

System description : Positive Pneumatic conveying system  
From Screen separator to Storage Silo  
From Storage Silo to Soaking tank

Equipment description: Silo (50 m<sup>3</sup>), Rotary valve, Diverter valve, Blower, Control panel

Main blower : Roots 50.0 hp, 2 units  
Control : Fully automatic system, Programmable Control Relay, SIEMENS LOGO  
Handling Material : Green and White bean

Capacity : 5,000 kg/hr  
Total Distance : 200 m  
Year : 2002  
Value : 1,880,000.00 Baht.

### **Siam Riso Co., Ltd.**

#### **Suratthanee**

System description : Positive Pneumatic conveying system  
From Rejecting screen in process line to Boiler  
Equipment description: Cyclone, filter, Rotary valve, Loading tank ,Blower  
Main blower : Roots 10.0 hp  
Control : Fully automatic system, PLC control, SIEMEN S7 series 200, by customer  
Handling Material : Wood dust, explosive material  
Capacity : 1,500 kg/hr  
Total Distance : 260 m  
Year : 2003  
Value : 810,000.00 Baht.

### **Mahaphant Fibre Cement Co., Ltd.**

#### **Lopburi**

System description : Positive Pneumatic conveying system  
From Storage Silo to Boiler  
Equipment description: Cyclone, Jet pulse bag filter ,Rotary valve, Loading tank ,Blower  
Control panel  
Main blower : Roots 20.0 hp  
Control : Fully automatic system, PLC control, Omron  
Handling Material : Rice peel  
Capacity : 2,000.00 kg/hr  
Total Distance : 30 m  
Year : 2003  
Value : 1,250,000.00 Baht.

### **Thai Standard Pipe Co., Ltd.**

#### **Samuthsakorn**

System description : Negative Pneumatic conveying system (Jet loader)  
From Storage small bag to top of Injection machine  
Equipment description: Cyclone, Jet pulse bag filter ,Rotary valve, ,Blower  
Control panel  
Main blower : Ring 5.5.0 hp  
Control : Fully automatic system ,Programmable Control Relay, SIEMENS LOGO  
Handling Material : PVC powder  
Capacity : 2,000 kg/hr  
Total Distance : 6 m  
Year : 2003  
Value : 200,000.00 Baht.

## **Thai Gypsum Co., Ltd.**

### **Cholburi (Lheamchabang Industrial Estate)**

System description : Positive Pneumatic conveying system

Equipment description: 2 units of Roots blower, 250.0 Hp.

Control : -  
Handling Material : Gypsum  
Capacity : 32,000 kg/hr  
Total Distance : 150 m  
Year : 2003  
Value : 2,620,000.00 Baht.

## **Thai KK Industry Co., Ltd**

### **Samuthprakarn,**

System description : Positive & Negative Pneumatic conveying system and Drier machine control system

From Drier machine to Mixer

From Mixer to 4 Silos

From 4 Silos to 24 Ball mills

Equipment description: 6 units of stainless steel Cyclone  
4 units of stainless steel Loading tank  
2 units of Jet Pulse Bag filter Receiver, stainless steel,  
2 units of stainless steel Inline filter  
9 units of stainless steel Rotary valve, size 12.0"  
1 unit stainless steel Diverter valve  
2 units of Roots blower  
Control panel and Computer

Main blower : Roots 20.0 hp , 2 units

Control : Fully automatic system, PLC control, SIEMENS S7 series 300 and Remote Computerized control unit by WIN CC

Handling Material : Urea and Melamine powder and popcorn

Capacity : 6,000 kg/hr  
Total Distance : 110 m  
Year : 2004  
Value : 5,250,000.00 Baht.

## **TCVS Co., Ltd.** (A Siam Cement Group of Company)

### **Prathumthanee**

System description : Positive & Negative Pneumatic conveying system

From Bag dumping station to Silo

From Silo to 2 Mixing tanks

Equipment description: 1 unit of stainless steel Cyclone  
1 unit of 30 m3 Silo  
1 unit of Dumping station with self cleaning bag filter set  
1 unit of stainless steel Rotary valve, size 4.0"  
1 unit stainless steel Diverter valve  
2 units of Ring blower  
Control panel

Main blower : Ring 2.0 hp , 2 units  
Control : Fully automatic system ,Programmable Control Relay, SIEMENS LOGO  
Handling Material : Modify starch and Tapioca flour  
Capacity : 350 kg/hr  
Total Distance : 30 m  
Year : 2004  
Value : 800,000.00 Baht.

### **CA Petrochemical Co., Ltd.** (A Chareonpokapun , CP,group of company)

#### **Rayong**

System description : Negative Pneumatic conveying system

Modification job for the system of “ LINE-MELT” Germany

Equipment description: Control Panel, Butterfly valve (with automatic operation set for unloading and safety function )

Car bon steel heavy duty Inline filter ,2 units

Main blower : Roots 25.0 hp , 2unit  
Control : Analog control  
Handling Material : PVC powder ,2 lines  
Capacity : 1200 kg/hr  
Total Distance : 45 m  
Year : 2004  
Value : 920,000.00 Baht

### **Dairy Plus Co., Ltd.**

#### **Nakornsawan**

System description : Bulk Material Loading System

Equipment description: Bulk bag unloading station, Bag dumping station, Control Panel,

Rotary valve, Butterfly valve, Screw feeder, Load cell and Plat form, all in stainless steel

2 units of Stainless steel storage tank,

Control : Fully automatic system, PLC control, SIEMENS S7 series 300 and Intra-net connection to main Control room (SIEMENS S7 series 400)  
Handling Material : Sugar and Milk powder  
Capacity : 3,000 kg/hr  
Year : 2004  
Value : 1,900,000.00 Baht

### **Siam Yamato Steel Co., Ltd.** (A Siam Cement Group of Company)

#### **Rayong (Marb-ta-pud Industrial Estate)**

System description : Negative Pneumatic conveying system (Central vacuum system)  
From Overhead crane to dust collecting silo

Equipment description: Jet Pulse Bag filter Receiver & Inline filter, Rotary valve and Blower Flexible hose

Main blower : Roots 15.0 Hp  
Control : Fully automatic system ,Programmable Control Relay,

SIEMENS LOGO  
Handling Material : Dust from foundry furnace  
Capacity : 1,500 kg/hr  
Connecting point : 4 points  
Total Distance : 80 m  
Year : 2005  
Value : 800,000.00 Baht.

### **Seisui S-lec Co., Ltd.**

#### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Negative Pneumatic conveying system  
From Crusher to Extruder

Equipment description: Cyclone, Rotary valve, Diverter valve, Mixer and Blower

Main blower : Ring 3.0.0 hp , 2 units  
Control : Analog, by customer  
Handling Material : Plastic film piece and powder  
Capacity : 150 kg/hr  
Total Distance : 70 m  
Year : 2005  
Value : 800,000.00 Baht.

### **Kellog Co.,Ltd**

#### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Modify Negative Pneumatic conveying system

Equipment description: Cyclone,

Main blower : Roots 25.0 hp  
Control : Analog, by customer  
Handling Material : Dry and crispy rice  
Capacity : 2,000.00 kg/hr  
Total Distance : 80 m  
Year : 2005  
Value : 300,000.00 Baht.

### **NP. Rice Flour Factory**

#### **Nhongbualumpoo**

System description : Negative Pneumatic conveying system and Rice cake bag filling  
equipment From Soaking tank to Crusher

Equipment description: Cyclone, Inline filter, Butterfly valve, Diverter valve, Blower  
Lump breaker, Loading hopper, Platform, Flexible hose and Belt  
Conveyer ,Bag pre-packing station, Storage tank (2 m3) all in

stainless

steel

Main blower : Roots 10.0 hp  
Control : Analog  
Handling Material : Wet and dry rice and Rice cake  
Capacity : 1200 kg/hr  
Total Distance : 22 m

Year : 2005  
Value : 1,180,000.00 Baht.

### **Thai Film (Public) Co., Ltd.**

#### **Rayong**

System description : Positive Pneumatic conveying system

Equipment description: 7 units of Diverter valve size 6.0"

1 units of Diverter valve size 8.0"

8 units of Rotary valve size 12.0"

2 units of Rotary valve size 14.0

8 units of Gate valve size 12.0"

1 units of Gate valve size 14.0"

2 units of Roots blower, 150.0 hp.

1 units of Roots blower, 200.0 hp.

Control : -

Handling Material : LDPE pellet

Capacity : 24,000 kg/hr

Total Distance : 120 m

Year : 2005

Value : 7,850,000.00 Baht.

### **Bangkok PVC Co., Ltd.**

#### **Nakornprathom**

System description : Positive Pneumatic conveying system

From Storage Silo to Storage hopper

Equipment description: Blower, Control panel

Main blower : Roots 50.0 hp ,2 units

Control : Fully automatic system ,Programmable Control Relay, SIEMENS

LOGO

Handling Material : PVC powder and Calcium carbonate powder

Capacity : 6,000 and 8,000 kg/hr

Total Distance : 80 m

Year : 2005

Value : 1,550,000.00 Baht.

### **Mahaphant Fibre Cement Co., Ltd. (Km 18 Engineering Co., Ltd., main contractor)**

#### **Lopburi**

System description : Positive Pneumatic conveying system

From Boiler to Silo

Equipment description: Rotary valve, 10.0", ,Blower, Venture eductor

Main blower : Roots 20.0 hp

Control : -

Handling Material : Rice peel ash

Capacity : 1,000.00 kg/hr

Total Distance : 30 m

Year : 2006

Value : 490,000.00 Baht.



## **Cifona Coffee Co., Ltd.**

### **Prathumthanee**

System description : Negative Pneumatic conveying system  
From dumping hopper to mixer

Equipment description: Control Panel, Rotary valve, Butterfly valve,  
Cyclone ,Bag filter, Inline filter, all in ss304

Main blower : Rings 4.0 hp , 1units

Control : Fully automatic system ,Programmable Control Relay, SIEMENS  
LOGO

Handling Material : Coffee, Sugar and Non-dairy Creamer powder

Capacity : 650 kg/hr

Total Distance : 25 m

Year : 2006

Value : 470,000.00 Baht

## **Dairy Plus Co., Ltd.**

### **Nakornsawan** (Expansion job from the year 2004 project)

System description : Negative Pneumatic conveying system  
From Bag splitter machine to Storage Silo

Equipment description: Control Panel, Rotary valve, Butterfly valve, Load cell and Plat form,  
all in stainless steel  
1 units of Stainless steel storage tank (13 m3),

Control : Fully automatic system, PLC control, SIEMENS S7 series 300 and  
Intra-net connection to main Control room (SIEMENS S7 series 400)

Handling Material : Milk powder

Capacity : 3,000 kg/hr

Total Distance : 25 m

Year : 2006

Value : 2,140,000.00 Baht

## **Chinchana Industry., Ltd.**

### **Lopburi**

System description : Positive Pneumatic conveying system  
From 3 Crushers to 4 Storage Silos

Equipment description: 3 units of carbon steel Bag filter (1600 m3/hr)  
3 units of hard chromed carbon steel Rotary valve, size 8.0"  
Control panel

Main blower : Roots 15.0 & 20.0 hp , 3 units

Control : Fully automatic system ,Programmable Control Relay, SIEMENS  
LOGO

Handling Material : Calcium carbonate and Barite

Capacity : 3,500 and 5,000 kg/hr

Total Distance : 100 m /lines

Year : 2006

Value : 3,550,000.00 Baht.

## **Nestle (Thailand) Co., Ltd.**

### **Nawanakorn plant**

System description: Positive Pneumatic Conveying System (modification job)  
Installation and piping job for the expansion project ,Main  
Equipment and design by “Nucon” Newsealand  
Together with our sister company *Siam Complex Technology Co.,Ltd.*

Equipment description: Long radius bend and compressed coupling  
Piping work, Dirverter valve and load cell set installation,Plate form  
All in sus 304

Main blower : Roots blower  
Handling Material : Milk powder  
Capacity : -  
Total Distance : 48 meter  
Year : 2006  
Value : 1,465,000.00 Baht

## **Pharma Innova., Ltd.**

### **Pathumthane**

System description : Negative Pneumatic conveying system  
Loading system for plastic blow molding machine  
(packaging for medicine)

Equipment description: 1 units of sus 304 inline filter (500 m3/hr)  
1 units of sus 304 cyclone (300 m3/hr)  
Control panel, Dumping hopper, Heppa outlet filter (for clean room  
used)

Main blower : Ring 7.5 hp , 1 units  
Control : Fully automatic system ,Programmable Control Relay, SIEMENS  
LOGO  
Handling Material : PP pellet  
Capacity : 150 kg/hr  
Total Distance : 12 m  
Year : 2006  
Value : 425,000.00 Baht.

## **CE industry Services Co., Ltd.** (A Chareonpokapan ,CP,group of company)

### **Rayaong**

System description : Negative Pneumatic conveying system  
From dumping hopper to extruder  
Modification job for the system of “ LINE-MELT” Germany

Equipment description: Control Panel, Butterfly valve,  
Heavy-duty Bag filter 500 m3/hr, Inline filter,  
Rotary valve size 8.0” ,all in ss304

Main blower : Roots 30.0 hp , 1unit  
Ring 7.5 hp, 1 unit  
Control : Fully automatic system ,Programmable Control Relay, SIEMENS  
LOGO

Handling Material : PVC powder  
Capacity : 1500 kg/hr  
Total Distance : 40 m  
Year : 2006  
Value : 770,000.00 Baht

**CA Petrochemical Co., Ltd.** (A Chareonpokapan ,CP,group of company)

**Rayaong**

System description : Negative Pneumatic conveying system  
Modification job for the system of “ LINE-MELT” Germany  
Equipment description: Control Panel, Butterfly valve (with automatic operation set for unloading and safety function )  
Car bon steel heavy duty Inline filter,  
Main blower : Roots 25.0 hp , 1unit  
Control : Analog control  
Handling Material : PVC powder  
Capacity : 1200 kg/hr  
Total Distance : 45 m  
Year : 2006  
Value : 520,000.00 Baht

**Thai Rayon (Public) Co., Ltd.** (A Adittaya Bira Group of company)

**Arngthong**

System description : Positive Pneumatic conveying system  
Equipment description: Roots Blower , Car bon steel heavy duty Inline filter,  
Main blower : 7 units of Roots blower 50.0 hp  
1 unit of Roots blower 10.0 hp  
Control : -  
Handling Material : Paper Pulp  
Capacity : -  
Total Distance : -  
Year : 2006  
Value : 2,106,000.00 Baht

**CA Petrochemical Co., Ltd.** (A Chareonpokapan ,CP,group of company)

**Rayaong**

System description : Negative Pneumatic conveying system  
Modification job for the system of “ LINE-MELT” Germany  
Equipment description: Control Panel, Butterfly valve (with automatic operation set for unloading and safety function )  
Car bon steel heavy duty Inline filter,  
Main blower : Roots 25.0 hp , 1unit  
Control : Analog control  
Handling Material : PVC powder  
Capacity : 1200 kg/hr  
Total Distance : 45 m  
Year : 2006  
Value : 520,000.00 Baht

## **Rojana Distillery Co., Ltd.** (A Rojana group of company)

### **Seekew Nakornrachasrima**

System description : Positive Pneumatic conveying system  
From lading station to Storage bin  
From 6 Storage bins to 2 Fermentation tanks

Equipment description: 2 units of stainless steel Cyclone  
4 units of stainless steel Loading tank 1.5 m<sup>3</sup>  
2 units of Jet Pulse Bag filter Receiver, Carbon steel,  
2 units of stainless steel Inline filter  
13 units of stainless steel Rotary valve, size 10.0"  
6 units of Roots blower  
-Piping work, ss304  
-Electrical wiring  
-Control panels

Main blower : Roots 30.0 hp , 5units  
Roots 20.0 hp , 1units

Control : Fully automatic system, Programmable Control Relay,  
"SIEMENS LOGO"

Handling Material : Rice and Steaming Rice

Capacity : 6,000 kg/hr (3 lines)

Total Distance : 80 m

Year : 2007

Value : 12,520,000.00 Baht

## **United Silica (Siam) Co., Ltd.**

### **Rayong**

System description : Positive Pneumatic conveying system  
From loading station to Storage Silo

Equipment description: 1 Venture educator  
2 units of Hard-chrome carbon steel Rotary valve, size 8.0",12.0"  
1 units of Roots blower  
-Piping work,

Main blower : Roots 10.0 hp , 1 units

Control : -

Handling Material : Silicon dioxide powder ,5 micron

Capacity : 1,900 kg/hr

Total Distance : 24 m

Year : 2007

Value : 800,000.00 Baht

## **Preserved Food Specialty Co., Ltd.** , (in coordinated job with **Nestle (Thailand) Co., Ltd.**)

### **Mahachai Samuthsakorn**

System description : Negative Pneumatic conveying system  
From dryer to loading station

Equipment description: 1 Bulk bag loading station ,SS304 (order by **Nestle (Thailand) Co., Ltd.** )

	1 units of stainless steel Rotary valve, size 6.0"
	2 units of Ring blower
	1 units of Jet Pulse Bag filter Receiver, SS304
	-Piping work,
Main blower	: Ring 5.5.0 hp , 2 units
Control	: -
Handling Material	: Coffee mate (brand <b>Aro</b> , for <b>Makro</b> )
Capacity	: 2,000 kg/hr
Total Distance	: 25 m
Year	: 2007
Value	: 825,000.00 Baht

### **Volclay Siam Co., Ltd.** (Main contractor" Tractus (Thailand) Co.,Ltd.)

#### **Borwin Cholburi (Eastern sea board industrial estate)**

System description : Positive Pneumatic conveying system

From 3 loading stations to 2 Storage Silos

Equipment description: 3 Bulk bag unloading stations

6 units of stainless steel Loading tank 1.5 m<sup>3</sup>

4 units of carbon steel, hard chromed, Rotary valve, size 12.0"

2 units of carbon steel, hard chromed, Rotary valve, size 14.0"

2 units of Roots blower

-Piping work,

Main blower : Roots 50.0 hp , 1units  
Roots 30.0 hp , 1units

Control : -"

Handling Material : Bentonite clay powder

Capacity : 15,000 kg/hr

Total Distance : 60 m

Year : 2007

Value : 11,220,000.00 Baht

### **Noble NC Co., Ltd.**

#### **Chainart**

System description : Positive & Negative Pneumatic conveying system

From 3 slitting machines to 2 Storage Silos

and From 2 Storage Silos to 10 Weighting Hoppers

Equipment description: .

1 units of carbon steel Cyclone 1.5 m<sup>3</sup>

2 units of carbon steel, Rotary valve, size 8.0",special design  
hard chromed body ,hardening blade with stay bar

1 units of carbon steel, Rotary valve, size 10.0", special design  
hard chromed body ,hardening blade with stay bar

2 units of cast iron, Rotary valve, size 14.0",special design  
with stay bar

10 units of cast iron, Fill vent valves, size 4.0"

2 units of Roots blower

4 units of centrifugal blower

1 unit of Bag filter, 1500m<sup>3</sup>/hr with 1,500 m<sup>3</sup>/hr centrifugal blower

	1 unit of Bag filter, 11,500m <sup>3</sup> /hr with 12,000 m <sup>3</sup> /hr centrifugal blower
	1 unit of Cyclone, 11,500m <sup>3</sup> /hr, dia. 3.2 m
	2 units of bulk loading station
	-Plate form for Bag filters,
	-Piping work and Duct work, CS
Main blower	: Roots blower 20.0 hp , 2 units Centrifugal blower , 75.0 hp, 1 unit
Control	: -"
Handling Material	: Paper pieces for TNT explosion raw material
Capacity	: 2,000 kg/hr
Total Distance	: 115 m
Year	: 2007/2008
Value	: 6,220,000.00

### **Thai Rayon (Public) Co., Ltd.** (A Adittaya Bera Group of company)

#### **Arngthong**

System description : Positive Pneumatic conveying system

Equipment description: Roots Blower , Car bon steel heavy duty Inline filter,

Main blower : 7 units of Roots blower 50.0 hp  
2 unit of Roots blower 10.0 hp

Control : -

Handling Material : Paper Pulp

Capacity : -

Total Distance : -

Year : 2007

Value :.1,213,000.00 Baht

### **Seisui S-lec Co., Ltd.**

#### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Negative Pneumatic conveying system  
From Crusher to Extruder

Equipment description: Cyclone, Rotary valve, Diverter valve, Mixer and Blower

Main blower : Ring 3.0.0 hp , 2 units

Control : Analog, by customer

Handling Material : Plastic film piece and powder

Capacity : 150 kg/hr

Total Distance : 50 m

Year : 2007/2008

Value : 860,000.00 Baht.

### **Thai Poly Ethylene (Public) Co., Ltd.** (The Siam Cement Group of company)

#### **Rayong (marb-ta-pud Industrial Estate)**

System description : Positive Pneumatic conveying system (Sea bulk loading system)  
From Silo to 40 feet container

Equipment description: 1 Transfer cart

1 units of SUS304, Rotary valve, size 10.0"(existing unit)

1 units of centrifugal blower ,SUS304

Handling Material : HDPE Pellet

Main blower : Centrifugal blower , 50.0 hp, 1 unit

Control : Fully automatic system, Programmable Control Relay,  
"SIEMENS LOGO"  
Capacity : 40,000 kg/hr (40 tons/hr)  
Total Distance : 15 m  
Year : 2008  
Value : 810,000.00 Baht.

### **United Farmer & Industry Co., Ltd.** (Mitr Phol Group of company)

#### **Khonkean (Nhongreior)**

System description : Negative Pneumatic conveying system  
From bulk bag dumping hopper to filling machine  
Equipment description: 1 unit of Dumping hopper 500 litre, SUS304  
2 units of SUS304, Rotary valve, size 8.0",  
1 units of Roots blower  
1 units of centrifugal blower  
1 unit of Bag filter, 800 m<sup>3</sup>/hr SUS304  
1 unit of Cyclone, 1,000 m<sup>3</sup>/hr, dia. 500 mm, SUS304  
Main blower : Roots blower 15.0 hp, 1 units  
Centrifugal blower, 2.0 hp, 1 unit  
Control : Fully automatic system, Programmable Control Relay,  
"SIEMENS LOGO"  
Handling Material : Sugar (sucrose)  
Capacity : 4,000 kg/hr  
Total Distance : 22 m  
Year : 2008  
Value : 930,000.00 Baht.

### **Collgate Palmolive (Thailand) Co., Ltd.**

#### **Cholburi (Bangprakong)**

System description : Negative Pneumatic conveying system  
From Extruder to storage silo  
Equipment description: 1 unit of Dumping hopper 100 litre, SUS304  
6 units of SUS304, Rotary valve, size 8.0",  
4 units of SUS304, Diverter valve, size 6.0",  
1 units of Roots blower  
1 unit of Bag filter, 1600 m<sup>3</sup>/hr SUS304  
6 units of Cyclone, 1,600 m<sup>3</sup>/hr, dia. 600 mm, SUS304  
Main blower : Roots blower 50.0 hp , 1 units  
Control : By the customer  
Handling Material : Soap pieces  
Capacity : 8,000 kg/hr  
Total Distance : 160 m  
Year : 2008  
Value : 8,830,000.00 Baht.

## **Sekisui Foam Co., Ltd.**

### **Cholburi (Bangprakong)**

System description : Negative Pneumatic conveying system  
From Extruder to storage silo

Equipment description: 1 unit of Dumping hopper 100 litre, SUS304  
1 units of SUS304, Diverter valve, size 4.0",  
2 units of Ring blower  
2 unit of Cyclone, 400 m<sup>3</sup>/hr ,SUS304  
2 units Storage tank 6,000 litre, SUS304

Main blower : Ring blower 4.0 hp , 2 units

Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO

Handling Material : PE and EVA powder

Capacity : 350 kg/hr

Total Distance : 65 m

Year : 2008

Value : 2,956,000 Baht.

## **Ayinomoto (Thailand) Co., Ltd.**

### **Prathumthanee**

System description : Negative Pneumatic conveying system (Central vacuum system)  
From storage area to waste silo

Equipment description: Jet Pulse Bag filter Receiver, with explosive panel  
& Inline filter, Rotary valve and Flexible hose

Main blower : Roots 25.0 Hp

Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO

Handling Material : Coal dust, boiler fuel

Capacity : 1,000 kg/hr

Connecting point : 8 points

Total Distance : 90 m

Year : 2008

Value : 910,000.00 Baht.

## **Kellog Co.,Ltd**

### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Negative Pneumatic conveying system

Equipment description: 2 units of Cyclone, SUS 304  
2 units , In line filter ,SUS 304  
4 units of rotary valve 6.0", SUS 304  
2 units of Co-mil (conical type light duty lump breaker) ,SUS 304

Main blower : Ring blower 7.5 hp, 2 units

Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO

Handling Material : Dry and Crispy rice powder

Capacity : 1,000 kg/hr, 2 lines

Total Distance : 12 metres

Year : 2009

Value : 850,000.00 Baht.



## **Precision Plastic Co.,Ltd**

### **Nakornsawan ,**

System description : Positive Pneumatic conveying system

Equipment description: 1 units of Bulk Bag Unloader, SUS 304  
3 units , Storage tank 6.0 m<sup>3</sup> ,SUS 304  
1 units of rotary valve 6.0", SUS 304  
3 units of slide gate valve 6.0", SUS 304  
2 units of Co-mil (conical type light duty lump breaker) ,SUS 304

Main blower : Roots blower 20.0 hp, 1 units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : PE and PP Pellet  
Capacity : 4,000 kg/hr, 1 lines  
Total Distance : 16 metres  
Year : 2009  
Value : 1,850,000.00 Baht.

## **CWC Intertrade Co.,Ltd**

### **Bangplee Samuthprakarn**

System description : Positive Pneumatic conveying system

Equipment description:

Main blower : Ring blower 5.0 hp,1units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : Dry and Crispy rice powder  
Capacity : 800 kg/hr ,1 lines  
Total Distance : 16 metres  
Year : 2009  
Value : 290,000.00 Baht.

## **Kellog Co.,Ltd**

### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Negative and Positive Pneumatic conveying system

Equipment description: 6 units of Cyclone, SUS 304  
3 units of In line filter, SUS 304  
6 units of Rotary valve 8.0", SUS 304  
2 units of Co-mil (conical type light duty lump breaker) ,SUS 304

Main blower : Roots blower 20 hp, 4 units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : Dry & Crispy rice and Corn  
Capacity : 4,000 kg/hr, 4 lines  
Total Distance : 50 metres  
Year : 2009  
Value : 3,112,000.00 Baht.

## **Thai Polyester Co.,Ltd**

### **Rayong , (Praugdeang)**

System description : Positive Pneumatic conveying system

Equipment description: 1 unit of Slide gate valve, in SUS304  
1 units of Rotary valve 10.0,in SUS304  
1 unit of Cyclone, in SUS304

Main blower : Roots blower 15 hp,1 units  
Control : Fully automatic system, Programmable PLC,  
SIEMENS S7 200  
Handling Material : PET Recycling Scrap pieces  
Capacity : 3,000 kg/hr ,1 lines  
Total Distance : 30 metres  
Year : 2010  
Value : 1,300,000.00 Baht.

## **Thai Polyethylene (Public) Co.,Ltd**

### **Rayong , (Marb Tapud Industrial Estate)**

System description : Positive Pneumatic conveying system , From storage tank through  
40' container (control volume by flow meter at accuracy of0.1%)

Equipment description: 1 unit of Diverter 8.0", in SUS304  
2 units of Rotary valve 14.0,in SUS304  
3 units of Solid bulk material flow meter 1 unit, in SUS304

Main blower : Roots blower 75 hp,1 units  
Control : Fully automatic system, Programmable PLC,  
SIEMENS S7 300  
Handling Material : HDPE Pellet  
Capacity : 45,000 kg/hr ,1 lines  
Total Distance : 15 metres  
Year : 2010  
Value : 7,800,000.00 Baht.

## **Precision Plastic Co.,Ltd**(expansion project of the system in the year 2009.)

### **Nakornsawan ,**

System description : Positive Pneumatic conveying system

Equipment description: 1 units , Storage tank 4.0 m<sup>3</sup> ,SUS 304

Main blower : Roots blower 20.0 hp, 1 units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : PE and PP Pellet  
Capacity : 4,000 kg/hr, 1 lines  
Total Distance : 18 metres  
Year : 2010  
Value : 450,000.00 Baht.

### **WGC Co.,Ltd** (In coordinating with Siam Complex Technology Co., Ltd.)

#### **Samuthsakorn , (Ban Paew)**

System description : Negative Pneumatic conveying system , From Spray Dryer To Bag Filter and Screener (*Spray Dryer Process*)

Equipment description:

2 units of Rotary valve 4.0", in SUS304

2 units of Bag filter, in SUS304

Main blower : Centrifugal blower 5.0 hp, 1 units , 3.0 Hp 2 units

Control : Analog control panel

Handling Material : Montodextrin powder

Capacity : 500 kg/hr , 2 lines

Total Distance : 25 metres and 12 metres

Year : 2010

Value : 3,200,000.00 Baht.

### **Diachromed Chemical Co.,Ltd**

#### **Samuthprakarn , (Bangpoo Industrial Estate)**

System description : Negative Pneumatic conveying system , Lump crusher To cyclone dryer, Cyclones, Bag Filter Storage tank and Screener (*Flash Dryer Process*)

Equipment description:

1 units of Rotary valve 6.0", in SUS304

1 units of Bag filter, in SUS304

2 units of high efficiency cyclone, in SUS304

1 unit of lump barker, in SUS304

Main blower : Centrifugal blower 45.0 hp, 1 units , 3.0 Hp 2 units

Control : -

Handling Material : Bi-sodium Carbonate powder

Capacity : 500 kg/hr , 2 lines

Total Distance : 25 metres and 12 metres

Year : 2010

Value : 2,700,000.00 Baht.

### **Siam Fiber Cement (Public) Co.,Ltd** (The Siam Cement Group of company)

( กระเบื้อง ลอนกู่ ทรายข้าง )

#### **Saraburi**

System description : Positive Pneumatic conveying system , From Silo To receiver distance 500 m

Equipment description: 6 unit of Diverter 5.0",  
8 units of Rotary valve 8.0

Main blower : Roots blower 45 hp, 1 units

Control : Fully automatic system, Programmable PLC,  
SIEMENS S7 300

Handling Material : Fiber cement

Capacity : 5,000 kg/hr , 1 lines

Total Distance : 500 metres

Year : 2010

Value : 7,800,000.00 Baht.

## **Precision Plastic Co.,Ltd**

**Nakornsawan ,**

System description : Positive Pneumatic conveying system

Equipment description: 1 units of Bulk Bag Unloader, SUS 304  
3 units , Storage tank 6.0 m<sup>3</sup> ,SUS 304  
1 units , Storage tank 4.0 m<sup>3</sup> ,SUS 304  
1 units of rotary valve 8.0", SUS 304  
4 units of slide gate valve 8.0", SUS 304

Main blower : Roots blower 25.0 hp, 1 units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : PE and PP Pellet  
Capacity : 6,000 kg/hr, 1 lines  
Total Distance : 29 metres  
Year : 2011  
Value : 2,850,000.00 Baht.

## **Thai Petrochemical Industry (Public) Co.,Ltd (TPC, ไทยพลาสติกและเคมีภัณฑ์)**

**Rayong , (Marb Tapud Industrial Estate)**

System description : Dust collectig system

Equipment description: 1 unit of Bag filter, in CS  
1 units of Rotary valve 10.0,in CS

Main blower : Centrifugal blower 20 hp,1 units  
Control : Fully automatic system, Programmable PLC,  
SIEMENS S7 200  
Handling Material : HDPE dust  
Capacity : 1,000 kg/hr ,1 lines  
Total Distance : 25 metres  
Year : 2011  
Value : 1,910,000.00 Baht.

## **PTT Chemical (Public) Co.,Ltd (ปตท.เคมีภัณฑ์)**

**Rayong , (Marb Tapud Industrial Estate)**

System description : Sea bulk Loading , 40 feet container loading system

Equipment description: 1 unit of Slide gate valve, in SUS304  
2 units of Rotary valve 14.0,in SUS304

Main blower : Centrifugal blower 45 hp,1 units  
Control : Fully automatic system, Programmable PLC,  
SIEMENS S7 200  
Handling Material : HDPE Pellet  
Capacity : 25,000 kg/hr ,1 lines  
Total Distance : 15 metres  
Year : 2011  
Value : 16,300,000.00 Baht.

### **Saralee Co.,Ltd ( Mocona Coffee)**

#### **Prathumthane**

System description : Negative Pneumatic conveying system  
Main blower : Roots blower 10 hp, 2 units  
Control : Fully automatic system, Programmable PLC,  
Alan Bradley  
Handling Material : Three in one coffee (Coffee, non dairy cream, & sugar)  
Capacity : 2,000 kg/hr ,2 lines  
Total Distance : 50 metres  
Year : 2011  
Value : 6,523,000.00 Baht.

### **Emerson (Thailand) Co.,Ltd**

#### **Cholburi , (Eastern Seaboard Industrial Estate)**

System description : Negative and Positive Pneumatic conveying system  
Equipment description: 1 unit of bag filter  
12 units of Diverter valve  
12 units of Rotary valve 6.0", Steel

Main blower : Roots blower 10 hp, 2 units  
Control : Fully automatic system, Programmable Control Relay,  
Alan Bradley  
Handling Material : Aluminum Oxy  
Capacity : 1,000 kg/hr  
Total Distance : 60 metres  
Year : 2011  
Value : 4,500,000.00 Baht.

### **Carbokarn (Thailand) Co.,Ltd**

#### **Cholburi , (Panusnikom)**

System description : Negative and Positive Pneumatic conveying system  
Equipment description: 1 unit of bag filter  
1 units of Diverter valve  
1 units of Rotary valve 6.0", Steel

Main blower : Roots blower 15 hp, 1 units  
Control : Fully automatic system, Programmable Control Relay,  
SIEMENS LOGO  
Handling Material : Saturated carbon for filtration and odor absorption  
Capacity : 1,500 kg/hr  
Total Distance : 80 metres  
Year : 2011  
Value : 1,860,000.00 Baht.