

# 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

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Web-site : [www.therec-corp.com](http://www.therec-corp.com)

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

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

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

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**

### **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 : Low density PE pellet  
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 silo to 8 Jet loader

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

Main blower : Ring, 7.5 hp

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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

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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

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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 Silo

From 4 Silo to 24 Ball mill

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)

**Pratumthane**

System description : Positive & Negative Pneumatic conveying system

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From Bag dumping station to Silo  
From Silo to 2 Mixing tank  
Equipment description: 1 unit of stainless steel Cyclone  
1 unit of 30 m<sup>3</sup> 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 Chareonpokapan , 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

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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**

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### **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 and 200.0 hp.

Control : -

Handling Material : LDPE pellet

Capacity : 24,000 kg/hr

Total Distance : 120 m

Year : 2005

Value : 7,250,000.00 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.

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## **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 slitter 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**

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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 : -  
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

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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 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  
1 unit of Roots blower 10.0 hp  
Control : -  
Handling Material : Paper Pulp  
Capacity : -

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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 Storage bin to Fermentation tank  
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 : 50 m  
Year : 2007  
Value : 10,520,000.00 Baht

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

**Rayong**

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**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 : [therec@truemail.co.th](mailto:therec@truemail.co.th)

Web-site : [www.therec-corp.com](http://www.therec-corp.com)

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 : 20 m  
Year : 2007  
Value : 800,000.00 Baht

**Preserved Food Specialty Co., Ltd.** ,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  
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 : Coffeemate (brand **Aro**, for **Makro**)  
Capacity : 2,000 kg/hr  
Total Distance : 20 m  
Year : 2007  
Value : 825,000.00 Baht

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

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

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

Equipment description: 2 Bulk bag unloading station  
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

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-Piping work, ss304  
Main blower : Roots 50.0 hp , 1units  
                  : Roots 300.0 hp , 1units  
Control : -"  
Handling Material : Bentonite powder  
Capacity : 15,000 kg/hr  
Total Distance : 60 m  
Year : 2007  
Value : 8,220,000.00 Baht

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

### **Chainart**

System description : Positive Pneumatic conveying system  
                          From cutter to Storage Silo and From Storage Silo to Weighting  
                          Hopper

Equipment description: 2 Bulk bag loading stations  
                          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 Roots blower  
                          2 Bag filter, 500m<sup>3</sup>/hr and 5,000m<sup>3</sup>/hr  
                          -Piping work and Duct work, CS

Main blower : Roots 20.0 hp , 2 units  
                  : Centrifugal blower , 75 hp, 1 unit  
Control : -"  
Handling Material : Paper piece  
Capacity : 2,000 kg/hr  
Total Distance : 50 m  
Year : 2007  
Value : 3,760,000.00

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