

# THEREC CORPORATION LTD.

## Air & Gas Boosting Blower Job Reference List

### Chotiwat Frozen Food Co., Ltd. (Bio Fuel Co., Ltd.)

#### Hadd yai Songkha

System description : Bio-Gas Boosting System for Boiler and Cooking

Equipment description:

Blower : Roots blower, 1 unit  
Brand / Model : Dresser Roots / URAI24  
Motor : 2.0 hp, explosion proof, **2B T4**, NEMA Standard,  
Blower Material : Cast iron  
Seal : -  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 128 m<sup>3</sup>/hr  
Pressure : 2,500 mmAqG  
Year : 2001  
Value : 100,000.00 Baht

### King Mongkut Institute of Technology ,Thonburi

System description : Bio-Gas Boosting System for Boiler and Cooking

Equipment description:

Blower : Ring blower, 1 unit  
Brand / Model : Nuova Rimal / R2004  
Motor : 2.0 hp, IP 55 Class F  
Blower Material : Cast Aluminium  
Seal : NBR lip seal  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 70 m<sup>3</sup>/hr  
Pressure : 1,500 mmAqG  
Year : 2001  
Value : 30,000.00 Baht

### Triwirat Co., Ltd.

#### Bangkok

System description : Combustion Air Boosting System for Burner, Glass Injection Needle

Equipment description:

Blower : Roots blower, 1 unit  
Brand / Model : Dresser Roots / URAI33  
Motor : 5.0 hp, IP 55 Class F  
Blower Material : Cast iron  
Seal : -  
Gas Handling : Normal air  
Capacity : 200 m<sup>3</sup>/hr

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## THEREC CORPORATION LTD./ บริษัท เทอร์เรคคอปอเรชั่น จำกัด

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Pressure : 3,500 mmAqG  
Year : 2002  
Value : 130,000.00 Baht.

### **Union Frozen Product Co., Ltd. (Bio Fuel Co., Ltd.)**

#### **Samuthsakorn**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 20 SH COR TMD, SCL 30 SH COR TMD,  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 2.0 hp & 3.0 hp, explosion proof, **Eexd**, IEC Standard  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 75 m<sup>3</sup>/hr  
Pressure : 1,700 mmAqG  
Year : 2002  
Value : 208,000.00 Baht

### **Lime Quality Co., Ltd.**

#### **Saraburi**

System description : Combustion Air Boosting System for Burner, Kiln Furnace

Equipment description

Blower : Roots blower, 1 unit  
Brand / Model : Dresser Roots / XLP 310  
Motor : 5.0 hp, IP 55 Class F  
Blower Material : Cast iron  
Seal : -  
Gas Handling : Normal air  
Capacity : 7000 Nm<sup>3</sup>/hr  
Pressure : 3,000 mmAqG  
Year : 2002  
Value : 500,000.00 Baht

### **Siam Food Product Co., Ltd. (Papop Enterprise Co., Ltd.)**

#### **Cholburi**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 20.0 hp, **explosion proof**, **Eexd**, IEC Standard  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 700 Nm<sup>3</sup>/hr  
Pressure : 2,000 mmAqG  
Year : 2003  
Value : 780,000.00 Baht

## **Thai Yasaki Co., Ltd.**

### **Samuthprakarn**

System description : Nitrogen Gas Boosting System for Plastic Insulation coating process

Equipment description:

Blower : Roots blower, 1 unit  
Brand / Model : Dresser Roots / Urai 33 - G  
Blower Material : Cast Iron  
Seal : Dry mechanical seal  
Motor : 7.5 hp, IP 55 ClassF, IEC Standard  
Gas Handling : 100 % Nitrogen  
Capacity : 200 Nm<sup>3</sup>/hr  
Pressure : 8,000 mmAqG  
Year : 2003  
Value : 300,000.00 Baht

## **Cemex Cement Co., Ltd.**

### **Saraburi**

System description : Combustion Air Boosting System for Burner, Kiln Furnace

Equipment description

Blower : Roots blower, 2 units  
Brand / Model : Dresser Roots / XLP N08  
Motor : 30.0 hp, IP 55 Class F  
Blower Material : Cast iron  
Seal : -  
Gas Handling : Normal air  
Capacity : 3600 Nm<sup>3</sup>/hr  
Pressure : 2,200 mmAqG  
Year : 2002  
Value : 400,000.00 Baht

## **Lee Kij Chareonsang Co., Ltd.**

### **Samuthsakorn**

System description : Combustion Air Boosting System for Burner, Fluorescence Light

Equipment description:-Outlet, Inline filter,

-Control Panel,

-Pneumatic Control valve with pressure transmitter to maintain the very accurate pressure

-Flow meter, Turbine type

-Pressure switch

-Outlet header, size 3.0 m<sup>3</sup>

Blower : Roots blower, 2 units  
Brand / Model : Dresser Roots / Urai 59  
Blower Material : Cast Iron  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Normal air  
Capacity : 2,000 Nm<sup>3</sup>/hr  
Pressure : 3,000 mmAqG  
Year : 2004

Value : 950,000.00 Baht

### **Thai Paper Mill Co., Ltd. (Papop Enterprise Co., Ltd.)**

#### **Rayong**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 45 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 10.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 300 m<sup>3</sup>/hr  
Pressure : 2,000 mmAqG  
Year : 2004  
Value : 330,000.00 Baht

### **P. Foundry Co., Ltd.**

System description : Combustion Air Boosting System for Burner, Melting Furnace

Equipment description

Blower : Ring blower, 3 units  
Brand / Model : FPZ effepizeta / SCL V6 MOR  
Blower Material : Cast Aluminium,  
Seal : NBR lip seal  
Motor : 5.5 hp, IP 55 Class F  
Gas Handling : Normal air  
Capacity : 200 Nm<sup>3</sup>/hr  
Pressure : 2,500 mmAqG  
Year : 2004  
Value : 110,000.00 Baht

### **Thai General Starch Co., Ltd. (Papop Enterprise Co., Ltd.)**

#### **Nakornrachsrma**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 6 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 20.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 3,750 m<sup>3</sup>/hr  
Pressure : 2,500 mmAqG  
Year : 2004, Expansion in 2005 and 2007  
Value : 1,650,000.00 Baht

## **Chareon Sompong Co., Ltd. “Rachatewa Landfill Gas Project”**

### **Samuthprakarn**

System description : Bio-Gas Boosting System for Generator, **1.0 Mega Watt**

Equipment description: -Water trap tank,,SS304

-Inlet and Outlet, Inline filter, SS304

-Control Panel, PLC SIEMENS S7 200,SAGADA Control Remote to PC in main control room

-Heat exchanger for gas cooling before gets into engine

-Cooling tower

-Flare, automatic ignition

-Balance tank , 1 m3 ,SS304

-Pneumatic Control valve with pressure transmitter

-Oxygen sensor

-Fire back protector, SS304

-Pressure and Vacuum switch

-Inlet and outlet header, SS304

Blower	: Roots blower, 2 units
Brand / Model	: Dresser Roots / Urai 56 - G
Blower Material	: Cast Iron
Seal	: Dry mechanical seal
Motor	: 25.0 hp, IP 55 Class F
Gas Handling	: Bio gas, 40-46% Methane
Capacity	: 800 Nm <sup>3</sup> /hr
Pressure	: 4,700 mmAqG
Year	: 2004
Value	: 1,650,000.00 Baht

## **Rachasrima Inter Product Co., Ltd. (Papop Enterprise Co., Ltd.)**

### **Nakornrachsrma**

System description : Bio-Gas Boosting System for Boiler and Generator

Equipment description:

Blower : Ring blower, 2 units

Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD

Blower Material : Cast Aluminium, with hard anodize

Seal : Double side mechanical seal with oil lubrication

Motor : 30.0 hp, IP 55 Class F

Gas Handling : Bio gas, 60-70% Methane

Capacity : 750 m<sup>3</sup>/hr

Pressure : 3,800 mmAqG

Year : 2005

Value : 760,000.00 Baht

## **Aeim Heng Co., Ltd. (Papop Enterprise Co., Ltd.)**

### **Nakornrachsrma**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 5 units

Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD

Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 3,000 m<sup>3</sup>/hr  
Pressure : 3,000 mmAqG  
Year : 2005 Expansion in 2007  
Value : 1,390,000.00 Baht

### **Aeim Burapa Co., Ltd. (Papop Enterprise Co., Ltd.)**

#### **Nakornrachsrma**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 3,000 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2005  
Value : 750,000.00 Baht

### **Thai Citric Co., Ltd. (Papop Co., Ltd.)**

#### **Samuthsakorn**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 60 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 10.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 135 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2006  
Value : 380,000.00 Baht

### **Lime Master Co., Ltd.**

#### **Saraburi**

System description : Combustion Air Boosting System for Burner, Kiln Furnace

Equipment description

Blower : Roots blower, 2 units  
Brand / Model : Dresser Roots / XLP 410  
Motor : 30.0 hp, IP 55 Class F  
Blower Material : Cast iron

Seal : -  
Gas Handling : Normal air  
Capacity : 7200 Nm<sup>3</sup>/hr  
Pressure : 500 mmAqG  
Year : 2006  
Value : 800,000.00 Baht

### **Bangna Starch Co., Ltd. (P & Papop Renewable Co., Ltd.)**

#### **Samuthprakarn**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 700 m<sup>3</sup>/hr  
Pressure : 3,000 mmAqG  
Year : 2007  
Value : 750,000.00 Baht

### **Quang Ngai Starch Co., Ltd. (Papop Co., Ltd.)**

#### **Quang Ngai Island ,Vietnam**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 700 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2007  
Value : 750,000.00 Baht

### **Heng Chan Starch Co., Ltd. (Papop Co., Ltd.)**

#### **Hojimin City ,Vietnam**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane

Capacity : 700 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2007  
Value : 750,000.00 Baht

### **Chanthaburi Starch Co., Ltd. (Papop Co., Ltd.)**

#### **Chanthaburi**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 3 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 1400 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2007  
Value : 880,000.00 Baht

### **PT. Budiacidjaya Co., Ltd. (Consult by Papop Co., Ltd.)**

#### **Lumpung ,Indonesia**

System description : Bio-Gas Boosting System for Generator ,**6.0 Megawatt**

Equipment description: -Inlet and Outlet, Inline filter, SS304

- Control Panel,
- Heat exchanger for gas cooling before gets into engine
- Pressure and Vacuum switch
- Inlet and outlet header, SS304
- Installation, and commissioning in Indonesia
- Warrantees service for 2 more years

Blower : Ring blower, 7 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 30.0 hp, **explosion proof, Eexd**, IEC Standard  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 5,600 m<sup>3</sup>/hr  
Pressure : 3,500 mmAqG  
Year : 2007  
Value : 4,450,000.00 Baht

### **Papop Enterprise Co., Ltd.**

System description : Bio-Gas Boosting System for Boiler

Equipment description: -Inlet and Outlet, Inline filter, SS304

- Pressure and Vacuum switch
- Inlet and outlet silencer, SS304

Blower : Roots blower, 2 units  
Brand / Model : Dresser Roots / Urai 59 - G  
Blower Material : Cast Iron ,with hard chromed coating for gas stream contact part



Seal : Dry mechanical seal  
Motor : 25.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 950 Nm<sup>3</sup>/hr  
Pressure : 4,000 mmAqG  
Year : 2007  
Value : 650,000.00 Baht

### **Chaokhun Kaset Pauechphol Co., Ltd. (Thai Bio Gas Co., Ltd.)**

#### **Saraburi**

System description : Bio-Gas Boosting System for Boiler

Equipment description: -Inlet and Outlet, Inline filter, SS304  
-Pressure and Vacuum switch  
-Inlet and outlet silencer, SS304

Blower : Roots blower, 3 units  
Brand / Model : Dresser Roots / Urai 615 - G  
Blower Material : Cast Iron ,with hard chromed coating for gas stream contact part  
Seal : Dry mechanical seal  
Motor :30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 1200 Nm<sup>3</sup>/hr  
Pressure : 4,000 mmAqG  
Year : 2007/2008  
Value : 2,260,000.00 Baht

### **Chaodee Startch Co., Ltd.**

#### **Nakornratchasrma**

System description : Bio-Gas Boosting System for Boiler

Equipment description: -Inlet and Outlet, Inline filter, SS304  
-Pressure and Vacuum switch  
-Inlet and outlet silencer, SS304

Blower : Ring blower, 1 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Seal : Dry mechanical seal  
Motor :30.0 hp, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 800 Nm<sup>3</sup>/hr  
Pressure : 3,000 mmAqG  
Year : 2008  
Value : 400,000.00 Baht

### **Ratchaburi Pig Farm (Siam Technique Co., Ltd.)**

#### **Ratchaburi**

System description : Bio-Gas Boosting System for Boiler

Equipment description: -Inlet and Outlet, Inline filter, SS304  
-Pressure and Vacuum switch  
-Inlet and outlet silencer, SS304

Blower : Roots blower, 1 units  
Brand / Model : Dresser Roots / RAM404 - GJ  
Blower Material : Cast Iron ,with hard chromed coating for gas stream contact part  
Seal : Dry mechanical seal  
Motor : 20.0 hp, EExd, IIB ,T4, Explosion proof  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 550 Nm<sup>3</sup>/hr  
Pressure : 4,000 mmAqG  
Year : 2008  
Value : 450,000.00 Baht

## **Siamtechnic engineering Co., Ltd.**

### **Chomporn**

System description : Bio-Gas Boosting System หมักก๊าซ

Equipment description: -Inlet and Outlet, Inline filter, SS304  
-Pressure and Vacuum switch  
-Inlet and outlet silencer, SS304

Blower : Ring blower, 1 units  
Brand / Model : FPZ effepizeta / SCL 50 DH  
Blower Material : Cast Aluminium, with hard anodize  
Seal :  
Seal :  
Motor : 4.0 KW, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 150 m<sup>3</sup>/hr  
Pressure : 100 mbarG  
Year : 2008  
Value : 269,000 Baht

## **Pituk Palm Oil LTD. (Papop Biometane Ltd.)**

### **Trung**

System description : Bio-Gas Boosting System

Equipment description: -Inlet and Outlet, Inline filter, SS304  
-Pressure and Vacuum switch  
-Inlet and outlet silencer, SS304

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH  
Blower Material : Cast Aluminium, with hard anodize  
Seal :  
Seal :  
Motor : 15 KW, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 600 m<sup>3</sup>/hr  
Pressure : 250 mbarG  
Year : 2008  
Value : 617,200 Baht

## **Aeim Heng Modified Co., Ltd.**

### **Nakornrachsrma**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 2 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor :  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : m<sup>3</sup>/hr  
Pressure : mmAqG  
Year : 2008  
Value : 500,000.00 Baht

## **Aeim Siri Ltd. (Papop Ltd.)**

### **Srisakate**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Ring blower, 3 units  
Brand / Model : FPZ effepizeta / SCL 90 SH COR TMD  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 22 KW, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 700 m<sup>3</sup>/hr  
Pressure : 300 mbar  
Year : 2008  
Value : 1,028,044.80 Baht

## **Thai Sanmigel Liter LTD. (Papop Renewable Ltd.)**

### **Karnjanaburi**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower : Roots blower, 3 units  
Brand / Model : Dresser Roots / Urai 59 - G  
Blower Material : Cast Aluminium, with hard anodize  
Seal : Double side mechanical seal with oil lubrication  
Motor : 22 KW, IP 55 Class F  
Gas Handling : Bio gas, 60-70% Methane  
Capacity : 1,100 m<sup>3</sup>/hr  
Pressure : 450 mbarG  
Year : 2008  
Value : 1,035,342.00 Baht

## **San Max Control Ltd. part**

### **Khonkaen**

System description : Bio-Gas Boosting System for Boiler

Equipment description:

Blower	: Roots blower, 1 units
Brand / Model	: FPZ effepizeta / SCL 90 SH COR TMD
Blower Material	: Cast Aluminium, with hard anodize
Seal	:
Motor	:
Gas Handling	: Bio gas, 60-70% Methane
Capacity	: 780 m <sup>3</sup> /hr
Pressure	: 400 mbarG
Year	: 2008
Value	: 220,000.00 Baht