Rising of Super Hybrid Rice in the Philippines

Henry Lim Bin Liong
Chairman & CEO, SL Agritech Corp
November, 2007

The Challenge

Between 1982 and 2000, average world prices of rice have been falling by 0.58% yearly. In contrast, Philippine wholesale prices have been rising by 10.60% yearly.

In order to procure the price of domestic market, Filipinos are paying billions of pesos annually due to rice importation.

China is the most populated country in the world.

China feeds its 1.3 billion people with only one-seventh of world arable land.

Hybrid Rice

In order to regain rice self-sufficiency, our government has made great effort to popularize hybrid rice technology in the Philippines.
The SUPER hybrid (indica/japonica):

“A tiger with wings!”

Prof. Yuan Long Ping, father of hybrid rice

Our Response

Mr. Henry Lim made a historical visit to Prof. Yuan Long Ping in his residence at Hunan, China in 1997

Prof. Yuan Long Ping and Dona Maria, mother of Mr. Henry Lim Bon Liong

In order to develop the super hybrid rice in the Philippines, SL AGRITECH CORP., the first Filipino Hybrid Rice Enterprise was established.

Prof. Yuan Long Ping sent his best assistant, Mr. Zhang Zhao Dong, to us

DA Sec. Luis Lorenzo, Jr. was paying his first visit to our experimental farm in Laguna.
Sec. Angelo Reyes and Former Sec. Montemayor with top officials of SL Agritech Corp.

We provide technical support to PHILRICE

We have good collaboration with IRRI.

Dr. Ronald Cantrell, Director General of IRRI visited SL Agritech farm in Laguna

Prof. Zhang Zhaodong and Dr. S.S. Virmani IRRI scientist.

Mr. Henry Lim Bon Liong was frequently invited by Sec. Lorenzo to speak on hybrid rice update

Mr. Henry Lim Bon Liong was invited by ANC stock market program to speak about the relation of agriculture to our country's economy.

Mr. Henry Lim Bon Liong with Presidential Adviser Lito Sarmiento and Congressman Ben Cruz in Dighay Bayan TV program.

The Achievement

SL Agritech Corp.
SL Agritech Corporation is fully committed to support the hybrid rice program of President Gloria Macapagal Arroyo.

In order to produce hybrid rice, we conducted large scale F1 hybrid rice & parental seed production in DAVAO.

To ensure purity, male parents (B line) was removed from production fields.

In order to popularize hybrid rice, we conducted large scale F1 hybrid rice & parental seed production in DAVAO.

To ensure purity, male parents (B line) was removed from production fields.

F1 hybrid rice seeds were harvested.

Our industry has greatly increased rural employment opportunity.

If we could really solve our food security problem, we could also solve our insurgency problems.

By supplying tons of MESTIZO hybrid seeds every year, SL Agritech has emerged as the largest supplier in the country.

Development of SUPER HYBRID RICE in the Philippines

A SUPER hybrid rice was projected as:

• High yielding
• Medium maturity
• Good disease resistance
• Excellent grain quality

As guided by principles of development of super hybrid from Prof. YUAN LONG PING, SL Agritech started to collect germplasm from China, IRRI, and PhilRice. Thousands of protoses were made and evaluated for many traits.

As guided by principles of development of super hybrid from Prof. YUAN LONG PING, SL Agritech started to collect germplasm from China, IRRI, and PhilRice. Thousands of protoses were made and evaluated for many traits.
Testing crossing and screening for Super Hybrid Rice at Research Center of SL Agritech Corp.

Prof. Zhang Zhaodong, breeder of SL-8H.

Prof. Yuan Long Ping gave pointers to our research scientists of SL Agritech Corp. during his visit in April, 2000.

SL-8H was finally released as the THIRD GENERATION hybrid rice in the Philippines SUPER HYBRID SL-8H at flowering stage

Mr. Henry Lim often visits the farm and examines the plant.

SL-8H was finally released as the THIRD GENERATION hybrid rice in the Philippines

Demonstration Farm in Pangasinan

SUPER HYBRID SL-8H at flowering stage

Excellent!!
How to grow like this?

No doubt!

SL-8

Farmer examined carefully and was convinced
(Iloilo, WS)

Not so bad!!

Mestiso

SL-8H

Heavy,

SL-8H!!

Very light,

Inbred!!

Farmers from Pangasinan appreciated heavy panicles of SL-8H:

Dr. Leo Sebastian, Director of PhilRice, makes a careful observation of SUPER HYBRID RICE.

Frisco Malabanan, DA-GMA Director, was convinced.

SL-8H, 11 tonner in PILA, Laguna!!
Farmer’s Name: FELINO B. GARCIA, JR.
Chairman, Model Hybrid Rice Cluster
Bagong Buhay Multi-Purpose Cooperative
Farm Address: Brgy. Mabini, Sto. Domingo, Nueva Ecija
Variety Planted: SL-8H
Yield: 246 cavans/ha at 56 kg/cav (sold fresh at P10.30/kg)

Cost of Production (per hectare):
IChicken Manure (25 bags x P40) - P1,000
IISeeds (20 kg x P90) - P1,800
IIILand Preparation - P3,500
IVPulling of Seedlings - P1,500
VTransplanting - P3,500
VIHerbicide and Fertilizer - P9,250
VIIHarvesting and Threshing - P13,000
VIII Sack & Twine - P1,506
IX Hauling - P2,214
X Labor, etc - P7,200
TOTAL P44,470

Computation of NET INCOME (per hectare):
(246 cavans x 56 kg/cav x P10.30) 141,892.80 Gross Income
44,470.00 Cost of Production
P97,422.80 Net Income per hectare

Farmer’s Name: FLORENCIO SUDOY
Member, Model Hybrid Rice Cluster
Bagong Buhay Multi-Purpose Cooperative
Farm Address: Brgy. Mabini, Sto. Domingo, Nueva Ecija
Variety Planted: SL-8H
Yield: 215 cavans/ha at 55.1 kg/cav (sold fresh at P10.60/kg)

Cost of Production (per hectare):
IChicken Manure (25 bags x P40) - P1,000
IISeeds (20 kg x P90) - P1,800
IIILand Preparation - P3,500
IVPulling of Seedlings - P1,500
VTransplanting - P3,500
VIHerbicide and Fertilizer - P9,250
VIIHarvesting and Threshing - P12,000
VIII Sack & Twine - P1,320
IX Hauling - P1,935
X Labor, etc - P7,200
TOTAL P43,005

Computation of NET INCOME (per hectare):
(215 cavans x 55.1 kg/cav x P10.60/kg) 125,572.90 Gross Income
43,005.00 Cost of Production
P82,567.90 Net Income per hectare

Farmer’s Name: SEBASTIAN GARCIA
Member, Model Hybrid Rice Cluster
Bagong Buhay Multi-Purpose Cooperative
Farm Address: Brgy. Mabini, Sto. Domingo, Nueva Ecija
Variety Planted: SL-8H
Yield: 205 cavans/ha at 56.5 kg/cav (sold fresh at P10.60/kg)

Cost of Production (per hectare):
IChicken Manure (25 bags x P40) - P1,000
IISeeds (20 kg x P90) - P1,800
IIILand Preparation - P3,500
IVPulling of Seedlings - P1,500
VTransplanting - P3,500
VIHerbicide and Fertilizer - P9,250
VIIHarvesting and Threshing - P12,000
VIII Sack & Twine - P1,260
IX Hauling - P1,845
X Labor, etc - P7,200
TOTAL P42,855

Computation of NET INCOME (per hectare):
(205 cavans x 56.5 kg/cav x P10.60/kg) 122,774.50 Gross Income
42,855.00 Cost of Production
P79,919.50 Net Income per hectare
In Hainan, China, Mr. Thomas Chen, COO of SL Agritech, relates the story of SUPER HYBRID RICE in the Philippines to Prof. Yuan Long Ping. He decided to come to the Philippines, to a FARMER FIELD DAY in Laguna. THE FATHER OF HYBRID RICE, he wanted to be assured.

He came to harvest with Filipino farmers. He feels that Filipino may have good harvest! He personally monitored threshing in the site. Examined the harvest to see if it was clean enough.
Checked the data carefully, if there were any mistakes.

FARMER TO FARMER, 11.08 t/ha. Congratulations!

Recognition of SL-8H from Prof. Yuan Long Ping

The Future

SL Agritech Corp.

The lifetime wish of Prof. Yuan Long Ping is to develop hybrid rice to give prosperity for mankind.

SL Agritech Corp. is determined to fulfill the wish of Prof. Yuan Long Ping by developing better hybrid rice for mankind.

With successful development of SL-8H, SL Agritech Corp. will respond firmly to his leader’s appeal and make significant contributions to rice self-sufficiency in the Philippines.

SL Agritech Corp. will support all level of farmers or farming groups to help them achieve their production goals.
SL Agritech will accelerate its speed in SL-BF F1 hybrid seed production to satisfy the country's demands with all-out effort.

SL Agritech is perfecting its weed processing equipment to assure better and more quality seeds for farmers.

By introducing and demonstrating advanced farm machinery, SL Agritech is playing lead role in the country’s farm mechanization.
SL8H Performance in INDONESIA, VIETNAM, BANGLADESH

SL8H in Indonesia

Indonesia is the fourth most populated country in the world. The rice production was listed world No.3 after China and India. Its total area harvested to rice is 11,963,204 ha. Of this, the irrigated agricultural area, which is very suitable for hybrid rice production, is 4,815,000 ha, namely, three times bigger than in the Philippines.

Several delegations were invited to visit SL AgritechCrop in the Philippines. The future for the development of SL8H in Indonesia is assured.

SL - 8SHS super performance in Indonesia

SL -8H super plant statures in Central Jawa, Indonesia

SL 8H had 82.66 % (WS) - 83.38% (DS) filled spikelets /panicle, compared the 75% (hybrids) - 82%(inbred) of local checks

SL8H in Vietnam

Vietnam is the world no. 5 rice production country. The area harvested to rice is 9.7M ha, with irrigated favorable for hybrid rice plant area 3 M ha.

A development plan using SL 8H was developed for future expansion

SL-8H super performance in Bangladesh

SL International seed production program in Bangladesh
Minister from Ministry of Agriculture in Madagascar visited SL Agritech Corp, Philippines. A total of 360 ha SL8H seeds were exported to the country in 2005.

Minister from Ministry of Agriculture in Malaysia tasted SL Hybrid Rice in SL Agritech Corp, Philippines. SL8H yielded 14t/ha, as reported by researchers in the country.

Delegates from Malaysia & Madagascar SL Agritech Corp will make efforts in promoting organic farming technology by introducing advanced Hi-Tech agri-chemical products.

In the near future, SL Agritech Corp. will expand its hybrid rice technology to outside of the Philippines.

The corporation will be leading the farmers and cooperatives to regain the power for earning foreign exchanges in the world market.

The corporation will surely contribute greatly to our economic recovery.

Super hybrid rice, SL-8H, treasure of Filipino Farmers
Thank you very much!