

MEXICAN PEDIATRIC NEUROLOGICAL PROGRAM

PROJECT DATA OVERVIEW

Updated version 14-May-2020

	<u>Completion date</u>
1 - Quotes Selection	
• Hydroponic Growing System (HGS)	06-Jun-2015
• Electroencephalograph (EEG) and Electromyograph (EMG)	11-Jun-2015
2 - Rotary Grants GG1526171	
• Submission by the project team:	16-Jun-2015
• Acceptation by TRF:	27-Oct-2015
3 - Equipment Acquisition	
• HGS parts	12-Jan-2016
• Purchase EEG and EMG in US and ship to Mexico	03-Jun-2016
4 - Equipment Installation	
<u>HGS</u>	
• Prepare field in Atlixco Puebla, MX	22-Jan-2016
• Install irrigation system	28-Apr-2016
• Set up Bamboo structure	15-Jul-2016
• Re-plan, redesign of the structure of the HGS due to hurricane destruction of part of similar system nearby	14-Jul-2016
• Weekly trips to Atlixco to track progress	30-Nov-2016
• Preparation operations including: - soil and water analysis, - embankment's final shape, - coal ash, - embankment plastic cover, - disinfection by irrigation with Carbathion and 3 weeks of rest.	
• Plant, grow and harvest onions on the HGS property to cover overage costs, during completion of the HGS. Open air onions project needed cash infusion.	31-Aug-2017
• HGS up and operational	01-Sep-2017
<u>EEG & EMG</u>	
• Importation authorization documents finalized	22-Jan-2016
• Importation agreement	05-Feb-2016
• Machines sent	28-Feb-2016
• Delivered at the customs of the Mexico City airport	03-Apr-2016
• All required documents delivered to the COFEPRIS	09-May-2016
• EEG & EMG delivered in Naucalpan	03-Jun-2016
• Problem of static electricity solved	01-Aug-2016

- EEG & EMG operational

01-Sep-2016

5 - Financing

	<u>Budgeted</u>	<u>Spent</u>
• HGS - Additional cost due to required reinforcement	47'825	68'533
• EEG & EMG – reduced expenses	41'608	37'898
• Consumable – budget reduced	<u>17'998</u>	<u>1'000</u>
Total – budget and expenses equilibrated	107'431	107'431

HGS cost overages paid by Dr. F. Jasso of FUMENEP

EEG & EMG consumables acquired by FUMENEP

6 - Equipment Operation

6.1 - Hydroponic Growing System (HGS) part of the project

FIRST PRODUCTION CYCLE - Aug-2017 – Jan-2018

Germination & planting	Unit	Aug	Sep	Oct	Nov	Dec	Jan	Σ
Tomato plants	Plant		15'000					
Cucumber plants	Plant		10'000					
Harvest								
Onions	Ton	10.4	-	-	-	-	-	10.4
Tomatoes	Ton	-	-	-	14.4	18.0	16.2	48.6
Cucumbers	Ton	-	-	-	14.0	13.5	12.5	40.0
Results								
Total cost	MXN							552'154
Total sales	MXN							601'800
Gain/loss	MXN							49'646
Allocation								
FUMENEP botulinum toxin	MXN							9'646
HGS seeds & consumables	MXN							40'000

Events

Jun-2017 - After a **storm** with winds of 60 MPH (100 KPH) hitting other greenhouses around Atlixco, we changed the architecture to reinforce some of the external supports with steel, significantly increasing the cost, but ensuring that a storm of this magnitude does not impact the structure. This requires most Rotary funds, after the purchase of the medical equipment, to be diverted to cover the additional cost. Additional contributions of approximately \$ 20,000 was needed by the Jasso family to complete the initial structure.

As a result, the reinforced bamboo frame weathered better than local traditional metal greenhouses to the first storms.

Sep-2017 - **Hurricane** Katia ends its course in the state of Puebla, which strongly affected the structure of the installation, particularly the heavy rains

SECOND PRODUCTION CYCLE - Feb-2018 – Jul-2018

Germination & planting	Unit	Feb	Mar	Apr	May	Jun	Jul	Σ
Tomato	Plant							
Cucumber	Plant							
Harvest								
Onions	Ton							
Tomatoes (1)	Ton	-	-	-	-	2.0	-	2.0
Cucumbers	Ton	-	-	-	0.9	8.0	4.5	13.4
Results								
Costs	MXN	20'000	52'000	52'000	44'000	39'800	73'800	395'200
Sales	MXN		-	-	7'000	45'000	30'000	82'000
Gain/loss	MXN		-52'000	-52'000	-37'000	5'200	-43'800	-313'200
Allocation								
FUMENEP	MXN	-	-	-	-	-	-	-
HGS seeds & consumables	MXN	-	-	-	-	-	-	-

Note 1 – The tomato plants are affected by a disease, Acan Quenami worked on the problem with the seed provider and switched to cucumbers.

Open Fields - The project expended through open fields around the HGS, with the following results:

Area under cultivation: 1.75 ha

- Jalapeno 1 ha
- Onions 0.25 ha
- Watermelon 0.5 ha

- Costs 243'800
- Sales 154'000
- Results -89'800
-

Events

2018 – **Cost increase** of seeds and agricultural fertilizers.

May-2018 - A **storm** with winds up to 170 Km/h ruined the cultivation and affected the structure of the installation, particularly the plastic roofs and also a part of the structure of bamboo and metal.
 NB - The maximum wind speed to be considered for the calculation of the constructions in the Atlixco area is 120 Km/h, according to the National Congress of Structural Engineering, maximum speed for three seconds, statistics over 50 years.

THIRD PRODUCTION CYCLE - Aug-2018 – Jan-2019

Germination & planting	Unit	Aug	Sep	Oct	Nov	Dec	Jan	Σ
Onion plants	Plant	NA	NA	NA	NA	NA	NA	NA
Tomato plants	Plant	NA	NA	NA	NA	NA	NA	NA
Cucumber plants	Plant	NA	NA	NA	NA	NA	NA	NA
Harvest								
Onions	Ton	NA	NA	NA	NA	NA	NA	NA
Tomatoes (1)	Ton	-	-	-	-	-	-	-
Cucumbers	Ton	-	-	1.89	7.56	3.78	3.50	16.73
Results								
Costs	MXN	23'500	16'600	7'000	26'000	13'000	52'000	138'100
Sales	MXN	-	-	11'340	45'360	22'680	34'400	113'780
Gain/loss	MXN	-23'500	-16'600	11'340	19'360	9'680	-17'600	-17'320
Allocation								
FUMENEP	MXN	-	-	-	-	-	-	-
HGS seeds & consumables	MXN	-	-	-	-	-	-	-

Note 1 – The new tomato plants are still affected.

Open Fields

From August to September, buying seeds, germination, transplantation, nutriment.

Total cost MXN 25'500.

Events

This was the last production cycle, as:

2019 - With the beginning of the mandate of the new president of Mexico, the 01-Dec-2018, the Federal Government starts a campaign of direct economic support to families in the form of **scholarships** for: disability, school support, single mothers.

2019 - **Resignation of parents** to the commercialization of the crop, for effect the scholarship program of the Federal Government.

2019 - **Vegetable's prices drop** persistently, after the end of the previous administration in power at the start of the incoming Government, after the 01-Dec-2018.

2019 - The owner of the field **cut the access to the local well**, reserving it for his own usage for a new cultivated field.

2019 - The owner of the field **increased the rental price** of the field.

Jun-2019 - The **tariffs put on Mexican products** during the renegotiation of the NAFTA, caused a halt to some Mexican product shipments to the US and further caused a glut of product on the Mexican market. and a drop of the selling price of our produces.

Aug-2019 - Not having the economic income from the production, it is **decided to close the operation of the greenhouses**. This situation is reported to the Rotary Club and the National Defense Secretariat

Sep-2019 - Material resources are concentrated in a rented warehouse for storage in Santa Ana Acozautla. We can't go to take photos because of the confinement.

There was no money available to fix the structure, change location or trying to produce adequate crops after this turned out to be a money losing operation. This caused us to withdraw from the rental agreement that the Rotary structure was erected on. All materials from the structure are currently being stored and we will continue to work with Fumenep, even after the closing the Rotary International project, to evaluate the possibility of restarting this part of the project.

The results of the exploitation, when available, were used to:
- The maintenance of the greenhouse.
- The purchase of medicines, botulinum toxin, etc.
Agreement with medicines suppliers, for applying reduced prices.

EMPLOYMENT CREATION

The employment creation, which was:

- Direct employment in the HGS 4
- Direct employment in open fields 4
- Indirect employment, distributors in rural areas 12

Total 20
is now reduced to 0.

6.2 - Medical part of the project with EEG & EMG

DISEASE PREVENTION AND TREATMENT

- | | |
|--|-----|
| • Monthly new patients | 74 |
| The average treatment is rather of 5 years rather than 4, and there are more permanent patients additional to the yearly 893 new patients. | |
| • Up to date EEG exams | 429 |
| • Up to date EMG exams | 114 |

IMPROVING THE CAPACITY OF LOCAL HEALTH CARE PROFESSIONALS:

Employment creation

- | | |
|------------------------------------|----------|
| • Doctor specialists en Acupuntura | 2 |
| • Psychiatrist | 1 |
| • Health coach | 3 |
| • Lic. In rehabilitation | 1 |
| • Volunteers | <u>8</u> |

Total	15
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ENHANCEMENT OF THE HEALTH INFRASTRUCTURE OF LOCAL COMMUNITIES

- | | |
|------------------------------------|-----------------------------|
| • Puebla Pue. | opening of a practice |
| • Tilapa Pue. | Botulinum toxin application |
| • Santa Ana Acozautla Atlixco Pue. | Botulinum toxin application |

REDUCING POVERTY IN UNDESERVED COMMUNITIES

Additionally to the above mentioned employment creation, the following supports must be considered:

- | | |
|--|-----------------------------|
| • EEG exams, regular price MXN 1'000.- or one month of basic salary, up to MXN 4'000 | free |
| • EMG exams, regular price MXN 4'000.- or four months of basic salary | free |
| • Botulinum toxin, MXN 44'000.- for application | free |
| • Acupuntura, financial support of MXN 600.- by child | 40-50 children weekly |
| • Medicines, agreement with Herbanario, price reduction to the FUMENEP's patients, for about | MXN 40'000 – 60'000 monthly |
| • Blood analysis, agreement with Petrolab, MXN 2'500.- | free for new patients |
| • Activities of volunteers in favor of Tilapa and Santa Ana. | |

7 - Project objective

The objective of the project realized with Rotary was adapted to the economic situation, suspension of the Hydroponics Growing System and expansion of the medical part of the project.

The medical equipment allowing exams for children of families without resources, attracting laboratories for participating in this global humanitarian project, gained momentum.

Making awareness + taking action

Mariana

Disease:
Hypotonia-
Dystonia

(Issues with Central
Nervous System)

Total Disability

Walking after 4
months



We want to help children like Mariana because, now, we know it is possible.

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