

# Solar Water Heating System And Hydrotherapy Room

Hospita-lar Nossa Senhora das Graças na Providencia de Deus São José do Rio Preto – SP District 4480

Information: From beginning to end

Rotary



- The project aims to acquirement and installation of a solar water heater at the charity hospital called Hospita-Lar Nossa Senhora das Graças da Providencia de Deus.
- The equipment is designed to promote heated water in the rooms of therapy treatment patients that suffer from circulatory, joint, and degenerative diseases, such as stroke, rheumatoid arthritis and multiple arthroses.
- This institution welcomes elderly, poor and patients without family in the worse conditions of health and family support.
- They are physically disabled patients, paraplegics, or quadriplegics; patients suffering from strokes; joint diseases and psychiatric patients.

# **Hospital building before the Project**











# **Start Project point**

#### The visit of Governor 2011/12, Pedro Appendino Neto that occurred in October, 2011



### **Initial Project Planning**

- Meeting with all Rotary clubs of Sao Jose do Rio Preto Presidents to workgroup training in order to plan the project.
- Organizing of event to raise national funds
- Search for international partnership

# **Paella do Rotary**







Organizing of event to raise national funds: "PAELLA DO ROTARY" – November 05, 2011

Presence of Governor 2011-12 Pedro Appendino Neto, Rotary Clubs Presidents and representatives of hospital administration.

# **Members of Project Commission**

#### Committee Local Sponsor Club :

- 1º Contact => Freitas, Roberto B. RC SJRP Novo Cinquentenario
- 2º Contact => Januário, Gerson RC SJRP Novo Cinquentenario
- 3º Contact => Gongora, Delzi RC SJRP Novo Cinquentenario

#### Committee International Sponsor Club:

- 1º Contact => Kenneth, Yuk Shing Chow RC Tsuen Wan
- 2º Contact => Cleeve, Shun-Ching Chan RC Tsuen Wan
- 3º Contact => Tai-Hung Lo RC Tsuen Wan

# **Local Partners**

• Distrito 4480	US\$10.000
Rotary Club SJRP Alvorada	US\$ 1.000
Rotary Club SJRP Boa Vista	. US\$ 1.000
Rotary Club SJRP Centenário	. US\$ 1.000
Rotary Club SJRO Jardins	US\$ 1.000
Rotary Club SJRP Norte	US\$ 1.000
<ul> <li>Rotary Club SJRP Novas Gerações</li> </ul>	. US\$ 1.000
<ul> <li>Rotary Club SJRP Novo Cinquentenário</li> </ul>	US\$ 1.000
<ul> <li>Rotary Club SJRP Palácio das Águas</li> </ul>	US\$ 1.000
<ul> <li>Rotary Club São José do Rio Preto</li> </ul>	US\$ 1.000
Rotary Club SJRP Sul	. US\$ 1.000
• Total	. US\$ 20.000

# **International Partners**

• Distrito 7210	US\$ 2.000
Rotary Club Central Calcutta	US\$ 1.000
<ul> <li>Rotary Club North Rockland (Haverstraw)</li> </ul>	
Rotary Club Beirut Cedars	US\$1.000
<ul> <li>Rotary Club Dearborn Heights</li> </ul>	US\$ 1.000
Rotary Club Delhi East End	
Rotary Club Tsuen Wan	
Rotary Club Delhi Midwest	
Rotary Club Tai Po	
Rotary Club Bayview Sunshine	US\$ 1.000
Rotary Club Kowloon East	
Rotary Club Taipei Tatung	
• Total	

#### The Global Fund to Match Programs

• subtotal		US\$ 3	28.842
<ul> <li>Related to credits Rota</li> </ul>	ry Clubs	US\$	16.842
<ul> <li>District Designated Fur</li> </ul>	nd	US\$	12.000

 Total General of Project:
 US\$ 62.526

 Total Received (US\$):
 US\$ 62.526

 Total Received (Real) =
 R\$ 141.133,50

Change: US\$ 1.00 = R\$ 2,2572

# Sustentability

- The physiotherapists had technical training and certificates of expertise in hydrotherapy and the hospital provided reporting with number of therapy by / month.
- Operational training of hospital staff.
- After the project was launched, all corrective maintenance costs will be covered by the manufacturer's warranty in the specified period by the Brazilian legislation, which is 01 years for equipment and up to 05 years for civilian facilities.
- From this period, the costs for maintenance will be covered by the beneficiary institution, with part of the financial resources generated by savings from the replacement of electricity by solar energy for heating water.
- All to the accompaniment of Rotary Clubs project sponsors.

# Project equipment

- Boilers of 1000 liters => 14 Units
- Collectors Plate Solar Energy => 84 Units
- Hydrotherapy Bath for lower limbs. => 01 Units
- Hydrotherapy Bath for upper limbs. => 01 Units
- Metal frame for support and safety => As relation presented by the hospital
- Pipes, valves and fittings for hot water => as relation presented by the hospital

# **Installation of Equipment**

Mount Structure for Boiler's Support Installation of Hot Water Boilers Installation of Plates Collector Connection network

# **Support structure for Boilers**

Start date: November 01, 2014

### Installation of Gates



### Liner aspect of hospital



# **View of Line and Roof**

#### Shears of Roof

Steel Structure to Support the Boilers





### **Steel Structure to Support the Boilers**



# **Installation of Boilers**

Start date: December 01, 2014

# **Lifting of Boilers**





## Aligning on the structure



# View of Catwalk



Stairs to the Catwalk





# **Installation of Collectors Plates**

Start Date: December 17, 2014

"Ongoing services"

### **Boilers and Plates of the Main Building**





## **Boilers Auxiliary of the Annex Building**







# **Current view of the Hospital**



# Hydrotherapy Room

Work started in January 2015

# Works in the Hydrotherapy Room







### **Bathroom and Eddies Spa Equipment**





# Performance System - ok





Water temperature Input Boilers 58,8°C

# **Performance System**



#### Inspection of Works March / 2015

#### **Rotarian and Technical:**

Electrical Engineer: Pedro V. Stuginski

Civil Engineer: Roberto B. de Freitas

Technical Solar Heating: Luis Henrique -

Lawyer: Gerson Januario

**Committee Local Project** 

RC SJRP – Novo Cinquentenario 4480 District - Brazil



#### Inspection of Works Mai / 2015

The rotarians John Passos Nogueira and Roberto B. de Freitas visiting the facilities of the project shortly before

the opening date



#### **Current Situation – The project is finished**

- The system installation is complete and has been tested with success.
- The operational training for technicians, nurses and hospital physiotherapists was performed successful.
- The Project is completed and now the local committee will be send all reports to The Rotary Foundation.,
- Now, the boilers and the others equipment already received the Rotary identification.
- Openning Ceremony: Jun 01, 2015

# Aspect of opening ceremony





Frei Francisco - Hospital Association Chairman speaks at the time of inauguration – Jun 01, 2015

# **Project's Opening**



Udibel Jose da Costa - Governor 4480 Gerson Januario e Roberto B Freitas - Committee members

### Opening



A. G. Maria Cristina Lopes; A. G. Vinicius Gori; Frei Marcos; Frei Francisco (Hospital Chaiman) with ; Roberto B. de Freitas (PLP) and A.G. Gerson Januario with Udibel Jose da Costa (Governor 4480) and Nelson Ohno rotarian on Physiotherapy room.

# **Opening Moments with rotarians**

-

Tatiana, Udibel , Gerson, Rosangela,

Silvia and Rosa Maria



Frei Ezequiel and Frei Marcos

Edson R. Vechiato e Vitória L. Vuillot

## **Overview Final**



We appreciate the collaboration of all Rotarians, Rotary Clubs and District by cooperating with the GG 1413735 Project

All you've done the Rotary shine

Allusive board of the inauguration held on June 1, 2015

PROJETO GLOBAL GRANTS GG 1413735 - BRASIL Rotary UB\$ 67.528.00 <=> R\$ 141.133.50 Sistema de Aquecimento Solar de Água e Turbilhões de Hidroterapia do Hospita-lar Nossa Senhora das Graças na Providência de Deus de São José do Rio Preto DOAÇÃO E PARTICIPAÇÃO RUNDACAD ROTARIA / DISTRITOS 4450 E 7213 E OS ROTARY CLUBS PRACEWOOD LOCAR Reading Street Street and Street Property PARCENDS INTERNACIONALS Name Card (no. - State of Robert Club Reiner Carborn Name and Address of the Owner, Notary Club Reports Suppliers NAME AND ADDRESS OF TAXABLE PARTY. Roberty Chill General Caller Br NAMES AND ADDRESS OF TAXABLE Party Cash Desiring States NAME OF TAXABLE PARTY. Name and Desired States Over Name and Address of the Owner, or other Restory Club Dates Millioned No. of Concession, Name Personny Chub Mundmann East of the Party of South Renary Chief Room Street and (Personalities) of the Lord Div otary Club Tarmi Talarte Actany Clock Terrary Mar Actary Cast Tai Pa GERTON STREAM COMAL DO PROLETO EDWENTOS & TODOS OS PARTICIPANTES E EN ESPECIAL LAR SÃO PRANCISCO DE ASSIS NA PROVIDÊNCIA DE DEUS DE BÃO ÁCRE DO RIO IRRETO E A TODOS OS ROTARIANOS TERESTE SULT A 3015 QUE TRABALHARAM NO PROJETO ENGLY DETINITIAL THAT PLANDAC AD ADTABLE ALLEY DETTRICK, DE ANCRY & PROLETON NUMBER AGE ON CONTRACTOR And a set Diverse was a rear of the

Copyright - Chef Ana Silvin / Poliphote

# Greeting

#### Local and International Committee Members GG 1413735

Freitas, Roberto B. / Januário, Gerson / Gongora, Delzi. V. N.

Kenneth, Yuk Shing Chow / Cleeve, Shun-Ching Chan / Tai-Hung Lo

#### **Special Participation**

Gov. 2011-12 Pedro Appendino Neto / G.E. Rubens Thevenard /

João Passos Nogueira / Pedro Vitório Stuginski / Susan Doxtator



The Rotary Foundation Districtal Committee - DRFC Alcir Monteiro / Peter Wan / Tanton Mustapha

Udibel Jose da Costa 4480 District Governor **Drew Kessier** 7210 District Governor

Gary C. K. Huang R.I. President 2014-2015



Showing: Freitas, Roberto B. - Support Group for Project's Instructon – Global Grants – District 4480 2014 - 2015