

**PROJECT: MOBILE MEDICAL DIAGNOSTICS UNIT**  
**GLOBAL GRANTS - ROTARY INTERNATIONAL**

**PROJECT SYNOPSIS:**

Rotary project for the acquisition of a VAN type vehicle adapted, equipped and intended to work as a **MOBILE MEDICAL DIAGNOSTICS UNIT**, for preferential realizations of diagnosis of liver abnormalities or dysfunctions, through simple and non-invasive examinations, consisting liver's functions test, supplemented by ultrasound and elastomography, replacing biopsies, in patients at risk of carrying liver diseases, thus reducing the health compromise of these patients and the number of deaths.

Patients undergoing ultrasound examinations and other health problems, such as epigastric hernias, bile duct stones or stenoses, will also be favored with the project, receiving medical guidance for specific treatments in the respective medical care sector of the Hospital de Base, or in other more convenient hospital for the patient.

This project will be carried out with international partnership and subsidies of the ROTARY FOUNDATION in the system called "Global Grants" and will have as a beneficiary FUNFARME - Regional Medical School Foundation of São José do Rio Preto.

The project will be conducted in accordance with ROTARY FOUNDATION norms and will have a partnership of District 4480, the ten Rotary Clubs of this municipality, and other international partners, and the Rotary Club of São José do Rio Preto - Novo Cinquentenario will be responsible for the local management of the project.

The scope of work for the project will be that of the administrative region of São José do Rio Preto, and more specifically the localities belonging to District 4480 of Rotary International and the DRS XV Regional Office of Health - São José do Rio Preto - SP - Brazil . Other cities belonging to District 4480, which are not part of this regional health station, such as Lins, Barretos and Jau, should also be attended to, provided that the project receives request and support from the respective DRS II - Araçatuba regional health police stations; DRS V - Barretos and DRS VI - Bauru

The project planning was carried out to be developed in four phases: 1st) Selection Phase and Project Justifications; 2nd) Identification Phase of the receiving Institution and of the Partners; 3ª) Phase of Approval and Implantation; 4th) Operation and Monitoring Phase.

Estimated deadline for implementation will be 06 months after approval by The Rotary Foundation and follow-up will take place for two years after the start of operational activities. Its cost is estimated for Rotary until the implementation phase at **US \$ 79,128.21**, with all operational and maintenance costs, through an agreement, under the responsibility of **FUNFARME** - Foundation of the Regional Faculty of Medicine of Sao Jose do Rio Preto.

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**We look for international partners who could contribute to the project**

## 1. INTRODUCTION

The municipality of São José do Rio Preto, a city located in the northwest region of the State of São Paulo, Brazil, and home to a state administrative region, currently has eleven Rotary clubs that form with Rotaract Club, Interact Club, Kids and Houses of Friendship a large Rotary family belonging to Rotary District D 4480 of Rotary International, interested and willing to work towards the goals of ROTARY® and meet the needs of their communities.

The best way these clubs have found for service is to carry out projects in partnerships with community participation. To initiate projects, Rotary clubs in São José do Rio Preto conduct research in the communities of the municipality, identify the various needs and choose the main ones, so that they can receive transformative actions and through projects to improve the lives of their residents. Its associates who work with diverse qualifications throughout the territorial base of the municipality come to know the existing needs of their housing communities, or professionals, to be able to support initiatives already in progress or to elaborate new researches, in order to know the main necessities that communities require.

Because every project needs financial resources, Rotary clubs hold individual or collective events to raise a certain importance that can guarantee the beginning of projects, and to complement with the cooperative participation of other Rotary clubs or districts international partners, which promotes the multiplication of resources and also allows receiving the subsidies of the ROTARY FOUNDATION if the project is framed within areas of focus predefined to the subsidies of GLOBAL GRANTS.

## 2- METHOD OF IDENTIFICATION AND CHOICE OF THE PROJECT

The Rotary Club of São José do Rio Preto New Fifty years of experience in projects sponsored by The Rotary Foundation during the Rotary year 2017-2018, a "Panel" was attended by representatives of local community institutions as well as professionals, to make presentations during the club's weekly meetings, some outstanding social needs, such as work proposals and be chosen as a priority for the club. From that point an "Analysis and Development Group" was formed to study the feasibility of carrying out a Rotary project, which was approved by the Director of the Council and the Assembly of Associates of the club.

The option chosen was focused on the health area, especially the focus area of The Rotary Foundation of "Treatment and Preservation of Diseases" and was the result of a panel on the situation of liver diseases, according to one of the doctors who presented results requires an early diagnosis so that the results are positive in the treatment of the disease. The idea was strengthened by the city of Sao Jose do Rio Preto to contemplate a Medical School, which has a modern Hospital, where the students exercise their training and professional qualification, and in this hospital have highlighted, among several areas of health, the diagnosis and treatment of liver diseases, including transplants, which could lead this institution to benefit from the project so that its clinical staff could better serve the local and regional communities.

The Rotarians in contact with the health professionals of this university hospital decide then, verify that there are viable conditions of implementation of the project having the Foundation maintainer of the school as beneficiary institution and thus realize a project of global subsidy that can grant to this area of medical attention , a new resource that improves the conditions for the prevention of liver diseases, through a "**MOBILE MEDICAL DIAGNOSTICS UNIT**" that makes it possible to work in different regions of the city or other municipalities assisted by the hospital, with the intention of conducting

examinations for early diagnoses of hepatic diseases, offering the sequence of treatments that allow the preservation of health and the reduction of mortality.

### **3- INSTITUTION BENEFICIATED**

FUNFARME - Foundation Regional School of Medicine of Sao Jose do Rio Preto.  
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### **4 - JUSTIFICATIONS FOR THE PROJECT**

Liver diseases are increasing in all parts of the globe, and Brazil is no exception. The most common causes of liver diseases are viral hepatitis B and C, alcoholism and more recently obesity and diabetes. All these patients can develop cirrhosis and its complications, among them liver cancer. All these complications are treatable, but most patients come to our institution with the disease well advanced. The later the diagnosis, the more expensive the treatment and, consequently, the shorter the patient's life expectancy. The result is a decrease in patient productivity, with a direct impact on the labor market and, above all, on the cost of the health system. Such patients, when identified early, are placed in a follow-up program, which allows an early diagnosis, thus avoiding more expensive treatments, such as liver transplantation.

Liver cancer, for example, is cured in 100% of cases when diagnosed in its early stage. But such an opportunity is only offered to 10% of the patients, that is, 90% of them will not have a chance of cure, and will then go on to palliative treatment. In recent years, this tumor has scared the world because it exhibited a different behavior, appearing in patients with steatosis (liver fat) before becoming cirrhotic.

Our concern with this issue is corroborated by data from the latest IBGE - Brazilian Institute of Geography and Statistics, which report that 61.9% of Brazilians are overweight or obese. To change this scenario, we would like to carry out an active search of these patients in the community, in order to identify the population at risk.

### **5- PURPOSE OF THE PROJECT**

Conduct an active patient search in the area of activity, which covers approximately 102 municipalities in the administrative region of Sao Jose do Rio Preto and more specifically the municipalities where Rotary clubs are located in District 4480 of Rotary International and / or in the Regional Division of Health DRS XV - Sao Jose do Rio Preto - SP - Brazil. Other cities that may have Rotary clubs from District 4480 and that are not part of this regional health station, such as Lins, Barretos and Jau, will be included, provided that the project receives the request and support of the respective DRS II - Aracatuba regional health police stations; DRS V - Barretos and DRS VI - Bauru, taking care of a risk group, which corresponds to a part of the population subject to certain factors or characteristics that makes it more likely to have or to acquire liver diseases. Medical screenings are usually done in at-risk groups rather than entire populations, as costs would be very high, results too lengthy and poorly tuned.

## **6- METHOD**

Perform diagnoses with a simple and non-expansive examination, using an ultrasound and elastography device, which can, in most cases, replace a biopsy; identify patients with liver problems, and / or by extension, if detected, other gastric or biliary pathologies.

## **7- ACTIVE SEARCH**

The active research will be carried out through the Social Service HB and Social Service of the city or community to be visited, in order to define the date and place of care by the Mobile Unit.

## **8- CLEAR IMPACT, DIRECT AND IMMEDIATE WITH THE PROJECT**

Initially, if you want to do the program once a week. Considering, on average, 4 exams per hour and working 6 hours a day, it means 24 exams a day, totaling 98 exams per month, and in this way in a year, a total of 1,176 exams are planned. From this total of examinations, it is believed that 60% will be diagnosed with some type of liver injury, such as steatosis (liver fat), cirrhosis or cancer.

Other pathologies, which although not the main objective of the program, will certainly be observed and / or diagnosed, will have their patients oriented to perform the appropriate treatment to solve the respective pathology, with hospitalization at the FUNFARME Base Hospital or other more appropriate hospital and convenient for patients, in order to contribute to the reduction of worsening of health with emergency hospitalizations that can result in patient deaths.

All annual work schedules and their results throughout the program covered by this project will be quantified and the results presented to Rotary annually.

## **9- DEMOGRAPHIC DATA OF BENEFICIARIES**

The region covered by the project comprises the administrative region of Sao Jose do Rio Preto, which has a population of 1,479,642 inhabitants.

## **10- WHO HAS DONE THE EVALUATION**

Assessments of community needs were conducted by Rotarians who are members of the Rotary Club of Sao Jose do Rio Preto - Novo Cinquentenario along with representatives of the community, local partners and the institution to be benefited.

## **11- EVALUATION DATE**

The evaluation began in February 2018 and the final preparation of the project was carried out by the Management Group at meetings held from this month until the finalization of the work that took place on July 6, 2018 (next past), with the participation of all local partners, the beneficiary institution and representatives of the community. After approval of the participation of the local partners, the text of the draft of the draft proposal was completed, which was finalized on August 10, 2018.

## **12- COMMUNITY PARTICIPATION IN THE EVALUATION**

Participated in the evaluation as representative of the community involved with the project Prof. Dr. Renato Ferreira da Silva - Head of the Liver Transplantation Unit of FAMERP - Base Hospital of Sao Jose do Rio Preto Medical School E-mail: [renatosilva@famerp.br](mailto:renatosilva@famerp.br)

## **13- STRENGTHS OF THE COMMUNITY**

The population of the region is made up of diverse communities and among these are those that need to be attended to and diagnosed with possible health problems. The experience of the beneficiary institution is a strong point in identifying a group of risks in the communities and in the treatment of individuals with liver diseases.

## **14- PURPOSE OF THE PROJECT CONSIDERING THE STRENGTHS AND THE NEEDS OF THE COMMUNITY**

As one of the strengths of the institution's experience in the diagnoses of individuals with liver diseases, the project will contribute to these diagnoses by moving medical care through the Mobile Unit, the places close to the homes or the work of the population in need of assistance, facilitating the attendance and aiding in the reduction of the commitment of the health of patients.

## **15- HOW THE PROPOSED ACTIVITIES WILL ACHIEVE THE OBJECTIVES**

The proposed activities will reach their objectives, offering the population at risk the clinical care that can identify possible diseases that can be treated avoiding aggravation and reduction of the number of deaths.

## **16- THE CHALLENGES THAT PREVENT THE COMMUNITY FROM ACHIEVING THE OBJECTIVES PROPOSED BY THE PROJECT**

The population of the communities that will be served by the project is not currently able to travel to places where these kinds of clinics and examinations are carried out, due to difficulties in absences from work, lack of transportation, family activities, or even negligence in health care.

## **17- THE COMMUNITY'S RELATIONSHIP WITH THE OBJECTIVES**

The communities in the municipality and region are grateful for the possibility of carrying out the project because currently the diagnoses are performed only in the hospital, when the people at risk are already in the situation of patients affected by an advanced stage of the liver disease, compromising their general health and rehabilitation.

## **18- THE PROJECT OFFERS THE BEST WAY TO MEET THE COMMUNITY'S NEEDS**

The activities of this project are the best way to meet the needs of the communities in this health segment, because the Mobile Unit and the clinical staff will take care of the communities, making it

easier for those in need of their clinical exams, without displacement, days of work and with great possibility of success in any diagnosis that needs treatment.

## 19- EQUIPMENT REQUIRED FOR THE PROJECT

In order to carry out the Project, it will be necessary to acquire a VAN to **MEDICAL DIAGNOSTICS** that will be properly equipped to conduct the clinical team of doctors and assistants an active search throughout the service coverage area and thus be able to change the natural course of these diseases, which is expected able to offer the majority of patients the chance for a cure.

## 20- ESTIMATED VALUE OF COSTS FOR THE PROJECT

The cost of the project was estimated at R \$ 308,600.00 or US \$ 79,128.21, including the acquisition of the vehicle, its adaptations and inclusion of the equipment that will operate according to the requirements of the various Brazilian sectors that standardize through Technical Specifications and Manuals of Procedures, the equipment and services, such as DENATRAN - National Traffic Department, CFM - Federal Medical Council, CONFEA - Federal Engineering Council, the Labor Safety and Health Surveillance standards of the respective Ministries, Labor and Health of Brazil.

**Item breakdown of the Project with details of the specifications in the annexes:**

<b>Discrimination</b>	<b>Brand</b>	<b>Model</b>	<b>Estimated Cost (R \$)</b>	<b>Estimated Cost (US\$)</b>
VAN	Renault / Similar	L3-H2 – 13m <sup>3</sup>	R\$ 155.000,00	39,743.59
Adaptation	ECO X or similar	Prod. varied	R\$ 45.000,00	11,538.47
Ultra Sound	Philips or similar	USG - HD5	R\$ 89.000,00	22,820.52
Laser Printer	HP or similar	Color	R\$ 2.500,00	641.03
NOBREAK	Engetron	2KVA	R\$ 3.600,00	923.08
Vehicle Accessories	ECO X	Diverses	R\$ 12.000,00	3,076.93
Medical Complem.	Philips ou similar	Miscellaneous	R\$ 1.500,00	384,62
<b>Total:</b>	-----	-----	<b>R\$308.600,00</b>	<b>79,128.21</b>

**Dollar conversion rate: 1 US\$ = R \$ 3.90**

## 21- PROJECT ADMINISTRATION

To accomplish this GLOBAL SUBSIDY PROJECT Rotary clubs have teamed up and formed a committee with representatives from each club, led by a team of three Rotarians from the ROTARY CLUB OF SAO JOSE DO RIOPRETO - NOVO CINQUENTENARIO, who were accepted by the others to represent them as the club responsible for the project, but all local partner clubs will have their related representatives on the project committee.

The following Rotary clubs participate in this project: Rotary Club of São José do Rio Preto, Rotary Club of São José do Rio Preto Alvorada, Rotary Club of São José do Rio Preto Boa Vista, Rotary Club of São José do Rio Preto Centenary, Rotary Club of São José do Rio Preto Garden, Rotary Club of São José do Rio Preto North, Rotary Club of São José do Rio Preto New Generations , Rotary Club of São José do Rio Preto, Palácio das Águas, Rotary Club of São José do Rio Preto Sul, and District 4480 itself.

The ROTARY project also counts on the participation of the Medical Team of the University Hospital to plan the equipment that will make up this **MOBILE MEDICAL DIAGNOSTICS UNIT**, planning its activities and subsequent monitoring of the work done.

The Rotary Club manager Project manager ROTARY CLUB OF SAN JOSE DO RIO PRETO NOVO CINQUENTENÁRIO, has in the current management 2018-2019, as president, Mrs. Creusa Manzali, who is Pharmaceutical and has the following contact: E-mail: [creusa@grindelia.com.br](mailto:creusa@grindelia.com.br) - Cel / App: +55 17 98116-9353.

As members of the team of the local managing club, three representatives with different professional qualifications were chosen: Roberto Barillari de Freitas - Engineer, E-mail: [robertobfreitas@hotmail.com](mailto:robertobfreitas@hotmail.com) - Cel / APP: +55 17 99745-3525; Gerson Januario - Lawyer, E-mail: [gersonjanuario@terra.com](mailto:gersonjanuario@terra.com) - Cel / App: +55 17 98129-1251; and one more representative of the medical area with availability of time to participate and to be designated. They will also include the project to be sent to the Foundation, the Rotarians appointed by other Rotary clubs and local partners such as; Rotary Club of São José do Rio Preto, Rotary Club of São José do Rio Preto - Alvorada, Rotary Club of São José do Rio Preto - Boa Vista, Rotary Club of São José do Rio Preto - Centenario, Rotary Club of São José do Rio Preto - Jardins, Rotary Club of São José do Rio Preto - Norte, Rotary Club of São José do Rio Preto – Nova Geracoes, Rotary Club of São José do Rio Preto – Palacio das Aguas, Rotary Club of São José do Rio Preto - Sul.

Internationally, it is hoped to find the INTERNATIONAL PARTNERS. And among these will be chosen one who wishes to participate as International Manager. All will make a financial contribution to the project and the international manager, who represents the other international partners, will also appoint a committee of three participating Rotarians, who together with the local management commission, will monitor the implementation and development of the project, receiving and analyzing the results reports for approval.

## **22- FUNDS OF PARTICIPATION IN THE PROJECT**

To meet the financial needs of the project, ten of the Rotary clubs already have a grant already made with a dinner whose income was reserved for a project of this nature, carried out jointly and focused on the community.

This event has today in local currency the equivalent of 8,200.00 dollars, but also the 4480 District will go to contribute with funds from DDF - District Fund for Controlled Use, transferring at the time of closing of the project, with equivalent to US \$ 10,000.00.

All ten Rotary clubs must contribute an additional US \$ 1,500.00 each to add up to an amount that will allow this project to be made possible by complementing the donated resources of international partner clubs or the DDF of some international partner district.

The remaining balance necessary to carry out the project should come as grants offered by The Rotary Foundation in accordance with the norms that regulate this type of international partnership project. This Foundation will contribute the equivalent of 50% of the total cash donated by Rotary clubs, with an amount equal to each dollar transferred from Rotary District DDF.

All resources to be received from The Rotary Foundation for funding the project will be deposited in a specially-opened bank account to manage the funds for this project, with financial transfers being made in accordance with The Rotary Foundation's rules and managed by the local project manager club.

Considering the values above, the table below shows as an example of planning, the values that each should contribute in total, and also the importance that is sought from international partners to achieve the financial resources that total what is necessary for the realization from the project.

**TABLE OF DONOR COMMITMENTS:**

<b>Value Needed for Project Cost – US\$ .....</b>				<b>79,128.21</b>
<b>LOCAL PARTNERS</b>				
Source of donation	Committed Donors	Donation US\$	Matching RF	Balance of Need
DDF	D4480	10,000.00	10,000.00	59,128.21
On cash club	RC of Sao Jose do Rio Preto	1,500.00	750.00	56,878.21
On cash club	RC of SJRP Alvorada	1,500.00	750.00	54,628.21
On cash club	RC of SJRP Boa Vista	1,500.00	750.00	52,378.21
On cash club	RC of SJRP Centenário	1,500.00	750.00	50,128.21
On cash club	RC of SJRP Jardins	1,500.00	750.00	47,878.21
On cash club	RC of SJRP Norte	1,500.00	750.00	45,628.21
On cash club	RC of SJRP Nova Gerações	1,500.00	750.00	43,378.21
On cash club	RC of SJRP N. Cinquentenário	1,500.00	750.00	41,128.21
On cash club	RC of SJRP Pal. das Águas	1,500.00	750.00	38,878.21
On cash club	RC of SJRP Sul	1,500.00	750.00	36,628.21
<b>Sub Total Local:</b>		<b>25,000.00</b>	<b>17,500.00</b>	<b>42,500.00</b>
<b>INTERNACIONAIS PARTNERS</b>				
Source of donation	Committed Donors	Donation US\$	Matching RF	Balance of Need
DDF	Internacional Partner District	15,000.00	15,000.00	6,628.21
On cash club	International Partners Clubs	4,418.81	2,209.41	0.00
<b>Sub Total Internac.:</b>		<b>19,418.81</b>	<b>17,209.41</b>	<b>36,628.22</b>
<b>TOTAL GENERAL</b>		<b>44,418.81</b>	<b>34,709.41</b>	<b>79,128.22</b>
Tax 5% to I. R.	Tax not included	1,470.94		

**We look for international partners who could contribute to the project**

**23- ACTIVE PARTICIPATION OF THE BENEFICIARY INSTITUTION**

The Base Hospital and FAMERP complex will be responsible for the coordination of mobile operation and service activities; by offering doctors who specialize in the examination; for providing a driver for Mobile Unit operation; by the social and psychological assistance team; for the operation and maintenance of the Mobile Unit; for the provision of the basic materials, products and supplies for the use of the vehicle and all equipment; for the operation and maintenance of all the equipment installed in the Mobile Unit; for the payment of taxes and taxes on the vehicle (Mobile Unit); the conservation of the vehicle (Mobile Unit) and the dissemination and preservation of the public image of ROTARY®.

**24- COORDINATORS OF CLINICAL SERVICES OF THE PROJECTS**

The team of doctors who coordinate the activities by the beneficiary institution are: Prof. Dr. Renato Ferreira da Silva - HB / FAMERP Liver Transplant Unit - E-mail: [renatosilva@famerp.br](mailto:renatosilva@famerp.br) ; Prof. Rita de

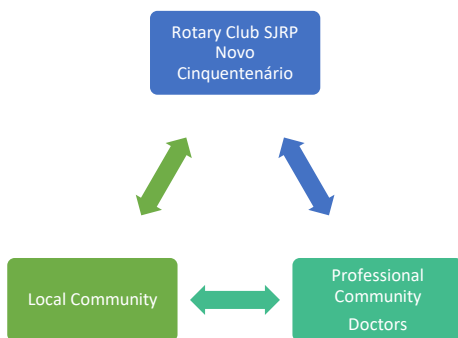


CMA da Silva - Transplantation Unit Hepatologist and LTSG Member. - E-mail: [ritasilva50@gmail.com](mailto:ritasilva50@gmail.com) ;  
 Prof. Dr. Jorge Fares - Executive Director of FUNFARME

## 25- PROJECT FLOWCHART

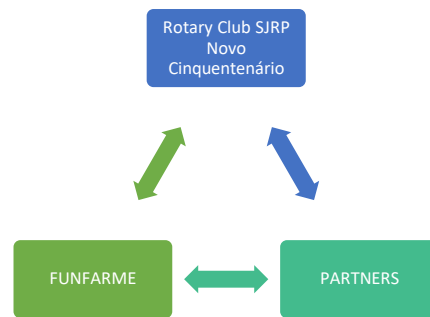
### 1st PHASE - PROJECT SELECTION

Selection of the project among the various possibilities of community service, approximate value and justifications of achievement.



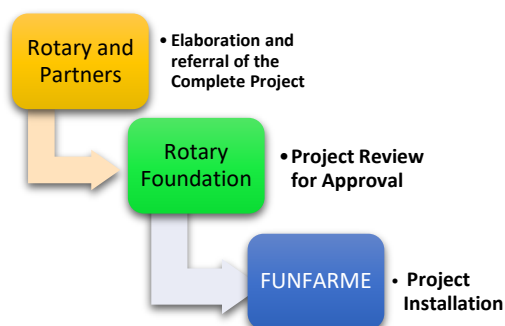
### 2nd PHASE - PROJECT PARTNERSHIPS

Search for an institution capable of receiving and administering the project, in addition to local and international partners willing to participate



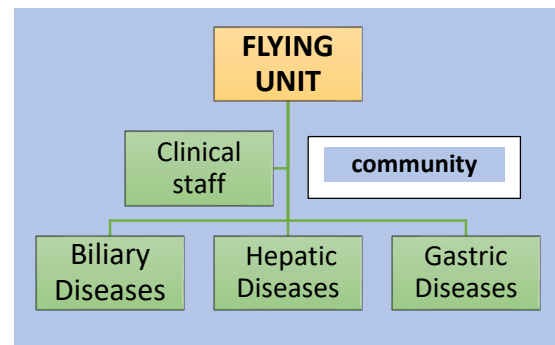
### 3th PHASE - APPROVAL AND IMPLANTATION

Establishment of drafting committees, technical specifications and final budgets, review by The Rotary Foundation, approval and implementation.



### 4th PHASE - OPERATION AND MONITORING

Training of the receiving institution's teams, functional tests, operational implementation, referrals and results monitoring.





**26- PROJECT DEADLINE FOR PROJECT DEVELOPMENT**

ROTARY projects whose values exceed the total of R\$ 30.000,00 for the needs of analysis and approval are necessarily medium to long term, which for us corresponds to one or two years, involving one or two Rotary managements, which always commence on July 1 of each year.

Once planned, they need the approval of the ROTARY FOUNDATION and therefore it is not always easy to calculate the deadline for a project, but an estimate is possible. In this case, we can say that it is intended to complete the installation of this project within six months after obtaining the international partners and the consequent approval of The Rotary Foundation.

Once the project has been installed and delivered to the operation, the expectation for starting the operational activities is given in up to 03 months, and in this period, the teams will be in training and the equipment being evaluated. After the end of this period, the project will be the responsibility of the beneficiary institution and monitored by ROTARY for a period of two years, receiving annual reports of programming and development of the work carried out, which will be provided by the beneficiary institution, according to the terms of responsibility in the delivery of the project.

**27- ILLUSTRATION OF FLYING UNIT AND ULTRASOUND EQUIPMENT**

<b>HEALTH'S DIAGNOSTICS UNIT MOBILE</b>	<b>ULTRASOUND EQUIPMENT</b>
 <p style="text-align: center; margin-top: 10px;">Layout ilustrativo.</p>	

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