

Rotary Club of Ampara (89690)

District 3220 – Sri Lanka & Maldives

[24.07.2020]

**PROJECT PROPOSAL**

**for**

***“ Help to Breath ”***

Supply Five Nos. of

Non-invasive Portable Ventilators

For Respiratory Care Unit at District General Hospital Ampara

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## **Executive Summary**

This project proposal is submitted to acquire five nos. of Non-Invasive Portable Ventilators for respiratory care center at District General Hospital Ampara (GH Ampara) which is the immediate need for routing respiratory care of the hospital as well as for facing the COVID-19 global emergency. The second wave of COVID19 has been attacked the country and it is worse than the first wave. By implanting this project, COVID-19 related respiratory care and other routing respiratory emergency management of the hospital can be improved and in turn, many lives can be saved and transfers of patients to other hospitals where ICU respiratory care facilities are available will be minimized. Also this project helps to reduce the rush in ICUs and improves the respiratory therapy in wards of routine medical and surgical conditions without even considering the COVID-19 is present or not. The estimated budget for this project is \$35,500.00 and also the project will be completed one week after receive the sufficient funds. This project will be a massive project by the Rotarians and this will be making a remarkable identity to Rotary.

## 1.0 Introduction

The Rotary Club of Ampara is a service oriented non-profit organization and a member of Rotary International since November 2018. We are identifying the development gaps, needs and urgency of services in the area under the six causes of Rotary and carrying out services and projects mainly based in Ampara district and also extending the services as necessary. Within this short period, our club has carried out numerous services and projects for the community in the area with the help of other clubs in the district 3220 (Sri Lanka & Maldives) such as, Donation of past exam paper books for the schools at Ampara and Monaragala districts, donation of hearing aids, supported autism prevention walk and a suicide prevention bicycle ride “Bikathon 2018”, donation of playground equipment worth Rs.1.5 million to Ampara urban children’s park, donation of medical equipment to the the Ampara Hospital and donations of computers to Samanabedda Nanasal etc. There are numerous proposed projects to be carried out viz road traffic accident prevention, settlement of human elephant conflict and disease prevention under Safe City Initiative.

The Club had an urgent online meeting 25<sup>th</sup> of March 2020 and widely discussed the current COVID-19 pandemic. In the discussion the club connected the medical personals who are directly involving in the preparatory measures for facing the pandemic in the Ampara District. Especially few consultants in the respiratory diseases were also advised. The need for few non-invasive portable ventilator for District General Hospital Ampara was highly recommended by all the medical consultants and it is a prioritized need of GH Ampara

GH Ampara is one and only general hospital in the Ampara district and supplying both out-patient care and inpatient care for the physically and mentally ill patients. There are OPD, ETU and Clinics in the Out patient department and wards including major specialties of Medicine, Surgery, Gyn & Obs, Paediatrics and subspecialties like ENT, Ophthalmology, Orthopedic, Dermatology, Cardiology, Rheumatology, Neurology, Genitourinary and Oncology in the inpatient department along with Operation Theatre with ICU care of MICU, SICU, NICU, CCU. Further, General Hospital Ampara provides health care not only for the people in this area but also for the people are being transferred from other hospitals like AMH Kalmunei, BH Kalmunei North, BH Akkareipattu, Sammanthurei , BH Mahaoya and many more Hospitals including PMCU and CDs. Therefore, the preparatory measure to face the COVID-19 in the GH Ampara has to be setup urgently. Currently the GH Ampara has 8

functioning ventilators, 6 in Medical Intensive Care Unit (MICU), 2 in Surgical Intensive Care Unit (SICU). At least 4 non-invasive ventilators are needed urgently for setting up the preparatory care center to face the current COVID-19 global emergency at GH Ampara. The biggest advantage of using these non-invasive ventilators is, they can be used in normal wards without using ICU facilities. And it is helpful in treating general medical and surgical emergencies with or without the COVID-19 present. However, improvements of respiratory care facilities saves more lives than present condition does. Further GH Ampara has all the sufficient building facilities to set up Respiratory Care Center (Center for “Help to Breath”). This service is set up for the population of 648,057 in the Ampara district comprising all of the ethnic groups such as Sinhalese, Sri Lankan Tamil, Sri Lankan moors, Indian Tamil and other living in same district unanimously.

With the response to expert’s idea and online product research we realized that ResMed Stellar 100 is ideal product for our need. It is a non-invasive portable ventilator which can be used in ICUs and in normal ward.

## **2.0 Project Justification**

There is a high demand of ICU facilities in this hospital as this is a one and only general hospital in Ampara district. The medical intensive care unit (MICU) is always occupied in almost all the occasions due to the limited number of beds and a large number of patients. Hence, the ICU facilities of the hospital is not sufficient to serve all the patients who need ICU care. And patients are transferred to the other hospitals which have sufficient beds available. This project supposed to buy and fix non-invasive portable ventilators which also can be used in normal wards of the GH Ampara

MICU has only 6 ventilators out of 8 and other 2 ventilators have allocated to surgical care. The beds of MICU are routinely occupied by the bad patients. Some patients take longer time to recover and they reside in ICU until they are fully recovered. In normal conditions approximately there are 10 Nos. of patients are transferring to MICU with critical conditions per week. And considerable number of patients are sending to other ICUs where beds are available due to lack of beds in MICU at GH Ampara. However, under the present COVID-19 pandemic condition, those amounts will be vastly elevated and the respiratory care facilities at ICU of the hospital definitely will be insufficient. At the present condition, the second wave of COVID19 has been attacked the country and it is worse than the first wave.

As COVID19 directly affect the respiratory system severely, the respiratory care facilities should be improved in order to treat the patients well. This effort is to facilitate the respiratory care center of the district general hospital Ampara with urgent requirements.

Hence, non-invasive portable ventilators are the best solution to face the COVID-19 pandemic situation. Also it will increase the routine intensive and emergency care of the hospital and more and more lives will be saved.

### **3.0 Project Sustainability**

Once these ventilators are supplied and fixed at GH Ampara, the maintenance and care will be taken over the ministry of Health, Sri Lanka. The operating costs will be borne by the GH Ampara. The project monitoring and evaluation after implemented will be taken over by the Rotary Club of Ampara for five years.

### **4.0 Objectives**

After implemented of this project, the following objectives will be reached.

1. Number of patients will be increase who will be served by the respiratory care of GH Ampara and number of patients who are transfer to other ICU will be decreased.
2. The preparatory measures will be increased to treat COVID-19 patients who will be admitted to GH Ampara.
3. The critical and emergency care of the hospital will be increased and more lives will be saved.

### **5.0 Procedures**

The ventilators will be purchased by the Rotary Club of Ampara adapting government approved procurement procedures. A quotation attached herewith was obtained from Meditechnology Holdings (Pvt) Ltd. to make a technical estimate and comparative quotations will be called from other companies as per the Gantt chart bellow. The purchased ventilators will be handed over to GH Ampara. A memorandum of

understanding (MOU) will be signed with GH Ampara for this whole project. The evaluation of the success of the project will be monitored by the Rotary Club of Ampara through the following key performance indicators.

1. Purchase and fix ventilators at GH Ampara
2. Number of COVID-19 cases treated
3. Reduction of patients transfer to other ICUs

## 6.0 Time Frame

Activity	Week 1	Week 2	Week 3
Submitting the proposal	██████████		
Obtaining Rotary Global Grant		██████████	
Local Fund Collection		██████████	
Call for Comparative Quotations		██████████	
Bid Opening and Ordering			██████
Installation & Operation			████

## 7.0 Budget

S. No	Item	Cost in (USD)
01	Five units of Non-invasive Portable Ventilators ( \$7100 x 5 )	\$35,500.00
	<b>Total</b>	<b>\$35,500.00</b>

### Sources of Fund:

No	Sources of Fund	Amount (USD)
1	Rotary Global Grant	\$33,000.00
2	RC Ampara Club Fund	\$2,500.00
	<b>Total</b>	<b>\$35,500.00</b>

## **8.0 Key Personals**

1. President / Project Chair from Rotary Club, Amapara
2. Director, General Hospital Ampara
3. Consultant, Respiratory Diseases, General Hospital Ampara

## **9.0 Evaluation**

Once the project was successfully implemented, it will be evaluated quarterly to check whether it's success in meeting project objectives and milestones and it's impacts to the beneficiaries. The implementation will be highly monitored in systematic manner and on and on-going basis. The quality and completeness of the project activities will be accurately assessed and aligned with the project goals, target and project outcomes.

The project evaluation will be done in both formative (process) and summative (impact) performance measures. In formative evaluation method the following activities will be measured. Such as meeting project goals conformance with the predefined time frame and effectiveness of the project's procedures, practices and activities in implementation. This method will be collected, analyze and disseminate data and will be help to keep the project track throughout the period of its implementation. The formative evaluation results will be included in the evaluation report and will be forwarded to the project partners and other stakeholders.

The summative evaluation method also practices to measure the project impact and consequent changes on the community. The summative evaluation will examine the impact of the project on

1. Number of COVID-19 patients treated
2. Reduction in number of transfers of patients to Other ICUs where beds available
3. Reduction of death over the years due to availability of Non-invasive Portable Ventilators