

# **Covid 19 – Save New Born Bady**

**PROPOSAL FOR STRENGTHENING OF NEW  
BORN CARE WARD OF GOVT MOHAN  
KUMARAMANGALAM MEDICAL COLLEGE  
HOSPITAL, SALEM.1 THROUGH FUNDS FROM  
ROTARY CLUB OF SALEM CENTRAL**



## INTRODUCTION

The New born ward functioning at Government Mohan Kumaramangalam Medical College, Salem is an advanced unit for care of sick new born babies in and around Salem district. It is a sophisticated, large ward of its kind in the whole of Salem district and caters to care of newborn babies from Namakkal, Attur, Kallakurichi, Krishnagiri and Erode districts also.

The babies delivered at GMKMCH is around 1000 every month and sick babies are transferred and cared for in this ward. Babies who do not have any health issues and are along with the mothers, are also visited and given counseling regarding new born baby care and breast feeding by the staff nurses and doctors from the new born ward. A Human milk bank “COMPREHENSIVE LACTATIONAL MANAGEMENT CENTRE” is also functional and is run by the new born care unit.

Around 450 new born babies in a month and 4,500 to 5000 new born babies in a year are taken care of in the new born unit of these 1500 to 1800 of them are premature, low birth weight babies that require intensive care. The primary problems these babies face are that they are not able to maintain their body temperature and their lungs are not yet mature to start breathing on their own.

## STRENGTHENING OF EQUIPMENTS

The primary care for these babies is to provide warmth, which could be done by treating these babies in open care warmer which produce external heat and regulate the babies' temperature. Most of these babies stay for a number of days in the new born care ward and occupy these warmers. So a few more of these warmers will be useful in providing care for these babies.

There are **10 to 15 new born babies** delivered to **covid positive** mothers at the new born covid ward at Government Mohan Kumaramangalam Medical Hospital. These babies need to be kept in neonatal warmer beds so that they maintain warmth and all other treatment for them is provided in this warmer care units.

**Fig: 1 Neonatal warmer**

**INFANT RADIANT WARMER** NWS 102

WARM • FLEXIBLE • FRIENDLY



To support the weak, fragile new born babies breathing, Bubble Continuous Positive Airway Pressure (CPAP) Machine provide humidified oxygen from a central source, under positive pressure so that the babies lungs are kept inflated and this helps the baby to breath easily till the lung matures and becomes independently functional life saving medicines like surfactant and Caffeine along with these bubble CPAP have been helpful to these babies and sending the happy parents home along with their new small one.

**Preterm ,low birth weight** babies delivered to the **covid positive mothers** who need **respiratory support** require treatment with BubbleCPAP machines .4 Bubble CPAP machines will help to support these babies for non invasive ventilation.

**Fig: 2 Bubble CPAP machine**



As the new born ward admission and census keeps on increasing every day and year the requirement for these essential equipments also rise. Total number of babies admitted in a year had risen from 2300 in 2017 to 4800 in 2019 and has already crossed 2400 till June this year. So the need for keeping these babies

The Survival of babies has also improved over the year in spite of increasing admission from 88% in 2017, the survival percentage has increased to around 92% in 2019. This has been possible with the advancement of care given to these babies. So it would be of immense help to us to provide better care and make the young babies survival into this world if the Rotary Club of Salem, Central would provide us with 10 numbers of infant warmer beds [Phoenix basic model] and 5 numbers Fischer & Paykel Bubble CPAP units.

Our hospital has a Human Milk Bank and it is a prestigious project for our hospital. Annually we are collecting more than 1000 litres of human milk and more than 1000 babies are saved with this. For the collection of human milk we need electric breast pump.

To express breast milk from the covid positive mothers and to feed their babies 2 medela symphony breast pumps are required.

**Fig: 3 Symphony<sup>®</sup> Breast Pump with Rechargeable Battery**



## SPECIFICATIONS

1. Neonatal warmer – Phoenix NWS 101 – 8 nos with 5 years of Annual Maintenance Contract
2. Bubble CPAP Unit – Fischer & Paykle make – 4 nos with 5 years of Annual Maintenance Contract.
3. Medela breast pump – Symphony<sup>®</sup> Breast Pump with Rechargeable Battery (Item # 0240208) - 2 nos. – WE have separate Human Milk Bank

The new born care in our hospital will definitely improve and it will be a great boost to our hospital to have these equipments. This will improve the survival of the new born babies to a large extent.

Requirements costing/Budget:

1. Phoenix – Infant Radiant Warmer - 8 Nos – Rs. 5,19,680
2. Bubble –C-PAP Nasal Cannula Thereapy 4 Nos – Rs.12,32,000
3. Breast Pump – Saving Mother Milk 2 Nos - Rs. 6,49,000
4. Total Cost : Rs.24,00,680 – USD 32009 + Contingeny - \$1500 = \$33509

Funding planning

RID 2982 DDF- \$8000

International partner : \$ 8754.50 -DDF : Total : \$ 33509