

## Rotary Club of Tiruchengode

Global Grant proposal to upgrade the neonatal care ward in the Government Hospital, Tiruchengode

Sl No	Equipment	Purpose	Available	(Additionally) Required	Value of one M/c in INR	Total Value in INR
1	CPAP - Continuous Positive Airway Pressure Machine	Continuous positive airway pressure (CPAP) is a form of positive airway pressure ventilator, which applies mild air pressure on a continuous basis to keep the airways continuously open in babies who are able to breathe spontaneously on their own. This modality stent the lungs' alveoli open and thus recruit more of the lung's surface area for ventilation. CPAP devices apply continuous positive airway pressure throughout the breathing cycle.	2	1	445011	445011
2	New Born Ventilator	Neonatal intensive care ventilators provide ventilatory support to preterm and critically ill infants who suffer from respiratory failure and who generally have low-compliance lungs, small tidal volumes, high airway resistance, and high respiratory rates. These mechanical ventilators promote alveolar gas exchange (oxygenation and carbon dioxide [CO2] elimination) by generating positive pressure to inflate the lungs of an infant who is incapable of adequate independent breathing.	1	1	1355200	1355200
3	Ultra sound/ Echo machine / Dopplor	this ultrasound/ echo machine helps to identify hemodynamics of the cardiovascular system esp when the baby is in various types of shock. Depending upon its hemodynamics, appropriate type of ionotropes to the baby , can be selected. Cranium, chest, hip and abdominal ultrasound , will be utilised to find out various life threatening emergencies.	0	1	1550000	1550000

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4	High Flow Nasal Canula	Bronchiolitis is a common lower respiratory tract illness, usually of viral aetiology, affecting infants younger than 24 months of age. It causes airway inflammation, mucus production and mucous plugging, resulting in airway obstruction. Effective pharmacotherapy is lacking and bronchiolitis is a major cause of morbidity and mortality. The use of heated, humidified, high-flow nasal cannula (HFNC) therapy enables delivery of higher inspired gas flows of an air/oxygen blend, up to 12 L/min in infants and 30 L/min in children. Its use provides some level of continuous positive airway pressure to improve ventilation in a minimally invasive manner. This may reduce the need for invasive respiratory support with clinical advantages and fewer adverse effects.	0	1	408800	408800
5	BIPAP machine	It offers two pressure levels: a background pressure (like CPAP) during 'out' breaths and a higher pressure to support each 'in' breath. So the baby breathes in and the BiPAP machine supports the breath; the baby breathes out and a positive level of pressure is maintained so that the baby's airways do not completely shut. BiPAP can also be set so that, if the baby doesn't breathe as frequently as is necessary, it can supply a breath even without the baby 'triggering' it (by starting to breathe in). BiPAP provides a very high level of respiratory support.	0	1	224000	224000

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6	Arterial Blood Gas analyser machine	A blood gas test provides a precise measurement of the oxygen and carbon dioxide levels in the baby's body. This can help the doctor determine how well the lungs and kidneys are working. This is a test that is most commonly used in the hospital setting to determine the management of acutely ill babies. The doctor may order a blood gas test if the baby is showing symptoms of an oxygen, carbon dioxide, or pH imbalance. The doctor may also order a blood gas test if is suspected the baby is experiencing any of the following conditions: lung disease, kidney disease, metabolic disease, etc., Identifying imbalances in the baby's pH and blood gas levels can also help the doctor monitor treatment for certain conditions, such as lung and kidney diseases.	0	1	420000	420000
		Total Value				4403011

Conversion ₹ 64 = US \$ 1

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or

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