

#### **4. Specifications of Transcutaneous Bilirubin Meter**

Non-Invasive Screening device that provides a fast (on spot) objective index of icterus in infants, neonatal patients with a gestational age >24 weeks

Hand-held device for outpatient/inpatient usage which is of Pocket size. Shouldn't use any consumables (In case consumables are present, same to be included at no extra charge for 3000 measurements).

Should have a Reusable measuring probe, to apply wipe disinfection

- For measurement of transcutaneous bilirubin (TcB).

Non invasive measurement with no consumables.

Should use a light source - preferably pulse xenon arc lamp – to carry out readings Detectors - Silicon photodiodes.

- Should be light weigh not more than 210 gm with integrated rechargeable battery.

Should be capable of doing at least 250 measurements on a full charge.

Battery should be easily rechargeable (2hrs).

- Should have a choice of taking readings, between single, 2-5 measurements as an average.

Should have an internal memory backup of at least 100 readings.

Should have connectivity for electronic medical record (EMR) for data transfer.

Should have large touchscreen display for easily readout, should also display the date on which reading is taken.

Should easily mark babies that need special attention with patient flagging.

Should provide fast, accurate entry of nurse and patient identification information, barcode scanner can be optional.

- Should have charging station to check calibration on light wavelength

Should work with all skin colour.

Measuring range 0.0 mg/dL to 20 mg/dL. Or 0-340  $\mu$ mol/L.

Scope of supply

- o Jaundice Meter.
- o Charging unit with calibration checker.

o Instructions for use.

Should be European CE/ USFDA approved.