

**BIO-MEDICAL ENGINEERING SECTION**  
Addu Equatorial Hospital  
**TECHNICAL SPECIFICATION**

**ITEM : OAE MACHINE**

**Quantity: 1 Unit**

**1. Description:**

Portable Otoacoustic Emission (OAE) system intended for newborn and infant hearing screening through assessment of cochlear (inner ear) function.

**2. Performance specifications:**

**2.1 Measurement Types:**

The system should support TEOAE (Transient Evoked Otoacoustic Emissions) screening. Automated screening mode with Pass/Refer indication shall be available.

**2.2 Output parameters: Pass/Refer**

**3. Installation and User Interface**

- Unit should be hand held
- Color display of any technology
- Buttons or touch screen for easy navigation

**4. Data Storage and Reporting**

- Internal Memory: Capable of storing results
- Export Options: The device should allow test results to be exported to a computer for storage and printing purposes.
- Exported results should be in standard formats that enable easy archiving and integration with patient records.
- The system should be capable of generating printable screening reports.

**5. Accessories and consumables**

- Ear tips of multiple sizes
- Probe tubes and tube removal tool (If applicable)

- Carrying case
- Rechargeable battery
- Probe tester (If applicable)

## 6. Power supply

- Should be battery operated
- Input power: DC Input with external adapter or 230V 50Hz AC supply

## 7. Compliance and Certification

- Should comply with IEC standards for electrical safety
- Classified as: Class II Medical Device
- CE Marked and/or FDA-approved

## 8. Other terms and conditions:

- Suppliers should have a valid authorized distributor license for the country/region at the beginning of agreement or signing of contract.
- Supplier should be able to supply the consumables on time without fail
- Application and Operator training for users should be provided by the Authorized trainers

## 9. Warranty & Service:

- 1 Year warranty should be provided.