<u>**Technical Specifications for Digital Multimeter**</u>.

**A:SPECIFICATION:**

**Meter should measure:**

- **DC current measurement and AC current.**
- **AC/DC voltage measurement up to 1000V.**
- **Resistance measurement and continuity test:**
    - continuity test with acoustic signalling (beeper
- **Temperature measurement (Fahrenheit and Celsius units).**
- **Frequency measurement.**
- **Capacitance measurement.**
- **Diode test.**
- **Duty cycle.**

**Additionally:**
- auto ranging/manual range selection,
-"DATA HOLD" function, for holding measured values,
- backlit LCD,
- "REL" function,
- "Max/Min" function,
- over range indication,
- Display 4¾ digits (40000 max)
- "AUTO-OFF" function.

**AC/DC Current measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 400.0µA | 0.01µA | |
| 4000.0µA | 0.1µA | For DC ± (1.0% m.v + 3 digits) |
| 40.00 mA | 0.001 mA | For AC ± (1.5% m.v + 30 digits) |
| 400.00 mA | 0.01mA | |
| 10.00A | 0.001A | |

**Frequency measurement: (Electrical)**

| Range | Resolution | Accuracy |
|---|---|---|
| 40.000 Hz to 10.000 KHz | 0.01 Hz to 0.001 KHz | ±0.5% m.v |

**Frequency measurement: (Electronic)**

| Range | Resolution | Accuracy |
|---|---|---|
| 40.000 Hz | 0.001 Hz | ±(0.1% m.v + 1 digit) |
| 400.00 Hz | 0.01 Hz | |
| 4.000 KHz | 0.0001 KHz | |
| 40.000KHz | 0.001 KHz | |
| 400.00 KHz | 0.01 KHz | |
| 4.0000 MHz | 0.0001 MHz | |
| 40.000 MHz | 0.001 MHz | |
| 100.00 MHz | 0.01 MHz | |

**AC Voltage measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 400.0mV | 0.1mV | ±(1% m.v + 40 digits) |
| 4.0000V | 0.0001V | ±(1% m.v + 30 digits) |
| 40.00V | 0.001V | |
| 400.0V | 0.01V | |
| 1000.0V | 0.1V | |

**DC Voltage measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 400.0mV | 0.01mV | ±(0.06% m.v + 4 digits) |
| 4.0000V | 0.0001V | |
| 40.000V | 0.001V | |
| 400.00V | 0.01V | |
| 1000.0V | 0.1 V | ±(0.1% m.v + 5 digits) |

**Resistance measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 400.00Ω | 0.01Ω | ±(0.3% m.v + 9 digits) |
| 4.0000KΩ | 0.0001KΩ | ±(0.3% m.v + 4 digits) |
| 40.000KΩ | 0.001KΩ | |
| 400.00KΩ | 0.01KΩ | |
| 4.0000MΩ | 0.0001MΩ | |
| 40.000MΩ | 0.001MΩ | ±(2.0% m.v + 10 digits) |

**Capacitance measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 40.000nF | 0.001 nF | ± (3.5% m.v. + 40 digits) |
| 400.00nF | 0.01 nF | |
| 4.0000μF | 0.0001 μF | ± (3,5% m.v. + 10 digits) |
| 40.00μF | 0.001 μF | |
| 400.00μF | 0.01 μF | |
| 4000.0μF | 0.1 μF | ±(5% m.v + 10 digits) |
| 40.000 mF | 0.001 mF | |

**Temperature measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| -50.0...+1200.0°C | 0.1°C | ±(1% m.v + 2.5°C,4.5°F) |
| -58.0°F ....+2192.0°F | 0.1°F | |

**Duty Cycle measurement:**

| Range | Resolution | Accuracy |
|---|---|---|
| 0.10.....99.9% | 0.01% | ±(1.2% m.v + 2 digits) |

**Electric security:**
- measurement category                    CAT III 1000V acc. to EN 61010-1:2004
- protection class acc. to EN 60529       IP67

**Other technical data:**

| | |
|---|---|
| - power supply | 9V battery type 6LR61 |
| - display | 40000 counts, backlit LCD |
| - continuity test | I<0,35mA, sound signal for R<35Ω |
| - diode test | I=0,9mA, U =2.8V DC |
| - over range indication | 0L displayed |
| - sampling rate | 2 times per second |
| - input impedance | 10MΩ (V DC) and 9MΩ(V AC) |
| - auto power OFF | 15 min. |
| - dimensions | 137 x 81 x 55 mm |
| - weight | 342 g |
| - accordance with following standards | EN 61010-1:2004 EN 61010-2-032 |
| - quality standard | ISO 9001 |

**Rated operational conditions:**

| | |
|---|---|
| - operating temperature | 0...+40°C |
| - storage temperature | -20...+60°C |
| - operating humidity | max 80% |

**B:  SERVICE AFTER SALE:**

Bidder will have to submit the documentary evidences of having established mechanism for prompt services as & when required.