

SCOPE OF WORK

- A. Item to be developed: Battery for Electronic Fuze.
- B. BRIEF: Machine Tool Prototype Factory is manufacturing electronic Fuze FB-40 (Proximity Fuze). Battery is one of the components of Fuze. Battery used in Fuze FB-40 is a Lead/Lead oxide battery. It is called as Reserve battery and gets activated & generates voltage when subjected to acceleration & spin.

Tenders are invited from interested firms to develop and supply the item. Initial requirement is 2300 Nos.

The detail technical requirement will be discussed at the pre bid conference at MTPF, Ambarnath.

C. SCOPE OF WORK:

SL. No.	Description of test	Units/Range
1	Activation time	Battery will get activate/generate voltage when subjected to specified acceleration & spin. Maximum 200msec for 14V under 15mA load.
2	Nominal Voltage level	18 volts at Ambient temp under 15 mA load. Just after the activation time along all the specified duration the battery voltage with a current of 15mA, shall not be less than 14 volts (-40°C) not higher than 25v (+60°C).
3	Nominal current level	15mA under 1 KΩ load
4	Operating time	Operating time from Activation till Voltage drops below 14V shall be not less than 15 sec.
5	Operating temperature	-40°C to +60°C
6	Internal Resistance	More than 5MΩ (test Voltage 100 Vdc)
7	Weight	Dimension and weight as per drg. No. G-0027000
8	Acceleration & Rotation required for Activation	Activation of the battery shall happen when it is put under acceleration of 25000g and a rotation speed between 40000 to 60000 rpm.
9	Impermeability	The battery shall be impermeable against any electrolyte spill during operation.
10	Shelf life	Twenty years if stored in controlled temperature (+20°C).

D. INSPECTION:

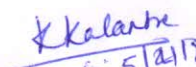
- 100% Dimensional inspection, Insulation resistance and Weight.
- Manufacturing & proofing of sample lot as per Mil STD 331-B.


E. DELIVERY:

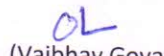
Within 6 months after acceptance of sample.

F. TENDER PROCEDURE:

- Tender are invited two bid system i.e. technical and commercial bids separately in sealed envelopes.
- In commercial bids firm to quote basic cost for each set and development cost, if any, separately. It may be noted that no advance payment will be made for development.
- In technical bids. Following details are to be furnished:
 - Company Profile.
 - Annual report and audit balance sheet for the last 03 years.
 - Detail of similar products developed with references.
 - Technology options as well as technically competent manpower available to carry out the job.
 - Detailed methodology proposed to carry out the development work.
 - To verify Sl.No. 1 to 10 of para C above, necessary test certificates of established laboratory will be provided while submitting samples.


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