

Item: Davis Tube Tester**The laboratory scale Davis Tube Tester should possess following specifications:**

1	The Davis Tube Tester is a laboratory use electromagnetic Separator that assesses magnetic and non-magnetic particle content in the sample.
2	The Davis Tube Tester consists of a powerful electromagnet which generates magnetic field intensity of up to 5000 gauss (can be regulated from 500 to 5000 gauss) In order to Separate the magnetic/ iron content of the sample, the sample is placed in glass tube (Davis tube) which is positioned between two poles of the electromagnet.
3	Feed Size : -1 mm to 325 Mesh
4	Quantity : - 1 mm up to 20 grams, 100mesh to 325mesh up to 50 grams
5	The material used are magnetic susceptible materials like iron ore, magnetite etc.
6	The system must have a easy –strong discharge system for magnetic and non magnetic fractions after subjected to magnetic separation
7	The supplier must provide a guide (write up or instrument which-ever is applicable) for knowing gauss values during changing magnetic intensity option.
8	Standard spare parts
9	List of institutions where similar equipment is supplied with contact details
10	Technical brochure or drawing of the magnetic separator system as mentioned in above clauses (1-7) <u>must be included</u> in technical bid

Essential Conditions:

11) The bidder must be a registered company. Necessary certificate shall be attached. The authorized business partner must submit letter of endorsement form the OEM, if applicable.

12) The local vendor of OEM must have supplied similar at least 7-10 similar Furnaces to IITs, NITs, IISERs, CSIR Labs and other Govt. of India R&D organizations (attach proof and purchase order copies, preferably in last 3 years).

13) The company should not have been banned/suspended/blacklisted for any reasons by any Government Organization/PSU/CSIR lab in last 3 years. A self- Certified letter must be submitted at the time of bid submission.

14) The company should have existence with IIT's for last 5 years, and the necessary proof should be attached along with quotation.

- 15) Machine should come with 3 year warranty from date of supply.
- 16) AMC for 5 year post warranty must be quoted for the system.
- 17) The company must have their service branch/engineer located in nearby location of Chennai.
- 18) Performance certificate from at least 10 users testifying the good performance of the supplied/installed equipment from the vender or their OEMs in past years.