

ANNEXURE - IV

Item: The laboratory scale WHIMS (Wet High Intensity Magnetic Separator)

The laboratory WHIMS model should possess following specifications:

1	A laboratory wet high intensity magnetic separator for separation of paramagnetic materials from iron ore/slimes etc.
2	The magnetic separator should be of compact size for handling small batch samples.
3	Construction material should be strong and sturdy preferably steel. All the parts should be corrosion resistant.
4	The system must have a magnetic intensity up to 2-2.2 Tesla (~22000 Gauss) with varying magnetic intensity option. Also, the system should have two electromagnetic coils to ensure varying magnetic intensity.
5	The system should have an option for changing flux converging elements or matrix. The system should have easy slurry feeding system i.e., for hand feed operation also.
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.