



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
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**Reference No. 86 PR No. 1000017938 (Rfx No. 6100000853)**

**Detailed Technical Specifications for Microbalance System:**

**Technical Specifications :**

1. Maximum weighing Capacity: **3.1 gm**
  2. Max. Capacity : **1.1 | 2.1 | 3.1gm**
  3. Scale Interval (d): **0.001 | 0.002 | 0.005mg**
  4. Typical Repeatability: **0.0005mg**
  5. Linearity: **0.003**
  6. Pan Size: **Ø 30 mm**
  7. Stabilization time: **5 sec**
  8. Sensitivity drift between +10 °C and +30 °C : **1 ppm/K**
9. **Display:** TFT touch screen operation with brilliant, readable, display & easy to operate user interface.
10. The balance should have most advance **monolithic block technology for Load cell.**
11. Balance should itself **automatic levels the System with the help of motorized levelling.**
12. The draft shield should be **Automatic, motorized, round, glass draft shield with learning capability, illumination and integrated motion sensor.**
13. **Off Centre Loading feature required for reduction in off Centre load error.**
14. The balance should have USB, RS232 ports available for various modes of communication to printer and PC.
15. If required, the balance should be easily hooked up with **external software's without any additional intermediate softwares.**
16. **A single level password** always ensures unauthorized parameter changes in setup menu.
17. The weighing Pan should be not less than **Ø30mm**
18. **The weighing pan should be of Titanium material, as it has most of all the chemical compatibilities.**
19. **The balance should be future upgraded as per customer requirements.**
20. **The Instrument should be supplied with 3 years warranty**