

INDIAN INSTITUTE OF TECHNOLOGY BOMBAY Materials Management Division For IIT GOA

X-Ray Diffractometer (XRD) Specification:

1. X-Ray tube: Standard

2. Anode material/target: Cu

Maximum power: 600W (Accelerating voltage - Upto 40kV)
Stability: Within ±0.05% for within ± 10% input power variations

5. Filter: Appropriate Beta filter

6. Stages: Standard

7. Goniometer: Vertical type, Radius - upto 150mm

Scanning range: -2° to + 140° (2θ)
 Scanning speed: 0.01°/min to 100°/min

10. Minimum step width: 0.005°

11. Detector and slits: Appropriate with system

12. Sample holder: Standard

13. External cooling system: standard (if required for the system)

14. Software packages: compatible software for the analyses with offline analysis option

15. Warranty: 36 months from the date of installation

16. Special condition: Test samples should be characterized by the instrument supplier and include the results with the technical bid documents

17. Manufacturer/supplier needs to provide the information of the similar instrument users in India and foreign.