



DR. APJ ABDUL KALAM CENTRAL INSTRUMENTATION LABORATORY

X-Ray Diffraction Facility



DETECTORS - D/teX Ultra250 SLXE

- Direct-detection semiconductor strip type detector
- Detection chip: $75 \mu\text{m} \times 20 \text{ mm} \times 256$ lines
- Global count rate: $> 2.5 \times 10^8$ cps
- Counting efficiency: over 99% (Cu K α)
- Active area: 384 mm² (19.2x20 mm)
- Angular coverage: 3.7 deg.

GONIOMETER

- Maximum usable range: $1^\circ < 2\theta < 157^\circ$
- Smallest addressable increment : 0.0001°
- Angular reproducibility : $< 0.0001^\circ$
- Maximum angular speed : 10 deg/s

Model : SmartLab 3kW

Manufacturer : Rigaku, Japan

- Powder - Samples may be submitted in person or by mail in sealed sample vials. Normally only 50 mg of the powder sample is needed for the analysis

Powder XRD (> 4 degree/min) per sample	200/- per sample	500/- Per sample +18%GST	1200/- Per sample+18%GST
Powder XRD (<4 degree/min) per sample	300/- per sample	700/- per sample +18%GST	1500/- per sample+18%GST
GI XRD /XRR	400/- per sample	800/- Per sample+18%GST	1800/- per sample+18%GST

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