



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY
MATERIALS MANAGEMENT DIVISION
Powai, Mumbai - 400076**

PR : 1000016593

Rfx : 6100000673

Specifications for Multi Mode Reader with Accessories :

- The reader should be capable of Measuring Absorbance, Fluorescence Intensity Top, Bottom, reading of TRF and flash/glow Luminescence with two injectors' **future upgradable to** Alpha screen, automated cell Imaging, TR-FRET, FP and reagent heater and stirrer module in Injectors.
- The Reader should have 2 Monochromator across Excitation and 2 Monochromator across Emission also should have provision for filter selection simultaneously across excitation & emission and vice-versa to select different wavelengths.
- **The Reader should be able to Perform following parameters in absorbance mode :**
 - Wavelength Range from 200 nm to 1000 nm with 1nm Increment
 - Full absorbance spectrum data from 200–1,000 nm in less than 5 seconds
 - Provision for Vertical/Up right Cuvette port facility
 - Temperature control ambient plus 4 to 40 deg C
- **The Reader should be able to perform following parameters in Fluorescence mode:**
 - Wavelength Range from 250 nm to 900 nm across excitation and 280 to 900 nm emission for Fluorescence reading.
 - Facility of Bandwidth adjustment between 5 to 50 nm
- **The reader should be able to perform following parameters in Luminescence mode:**
 - Wavelength Range from 380 nm to 700 nm
 - Reader should have option for wavelength scanning and multicolour luminescence.
 - Dynamic range should be more than 9 orders of Magnitude.
 - Detector: Photon counting low dark current PMT.
 - Reader should be able to perform BRET 1 and BRET 2 assay.
 - Dispenser should have provision for stirring and heating

- **Essential Accessories**

- The system should be supplied along with required laptop
- Warranty 1 year
- The software should have function for drag and drop for assay sequence and data reduction which provides an automatic export of measurement parameters into result files in a user specified formats.