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

  o The system should be supplied along with required laptop
  o Warranty 1 year
  o 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.