# Technical Specifications and BOM for Smart Class Room Recording and Webcasting Capability

**Title: Design, Installation and Operation of Class Room Recording and Webcasting Facility**

**Specification:**

**Make/Model: Eduspot  (Proprietary software)**

**Quantity:  As required**

- **Objective of the facility:** Two different learning modes are expected to be served by proposed facility.

  1. **Recording of Local Instruction:** This mode will be used for recording the lectures delivered through backboard/slide based medium to local students who are physically present in the class room along with the teacher like any other regular class room.

  2. **Webcasting of lectures**:  This mode will be used for distribute the recorded lectures over the internet using streaming media technology to many simultaneous listeners/viewers.

- **Features:** The facility will have following features.
  1. The facility will have ONE movable cameras and one Fixed Camera / Movable Camera,One movable covering the instructor half of the room and another **optional** fixed/movable camera covering the student half.
  2. The facility will provide automatic video/slide synchronization.
  3. The slides will be captured either in JPEG/PDF/PPT format.
  4. Video and will should be seen simultaneously in two windows.
  5. The facility will have automatic text extraction from slide.
  6. It is will have additional features such as random access by title of the slide, random access by word on slide/ random access by video based slide
  7. Instructor mobility 360 Degrees (Unlimited).
  8. Instructor camera movement and zoom in/zoom out possible.
  9. Student can be seen in close up as well as long and medium shot.
  10. Manual switching between cameras as well as pan, tilt, zoom of camera should be possible.
  11. Ability to monitor Audio/Video going in for recording by the person controlling the camera using a head phone.
  12. **The facility should have the feature to manually control camera movement of both cameras through a mouse via a User Interface.**
  13. **Ability to automatically track the instructor and zoom in on the black/whiteboard writing when needed.**