INDUSTRIAL VISIT REPORT

**Date**: 3/11/2023

**Venue**: Doordarshan Kendra, Kothrud

**Purpose of visit:**

On this day, we had an industrial visit at Doordarshan Kendra, Kothrud as part of Applied Mathematics practical. In this visit we have learnt how the actual working of recording a television program which undergoes through a process of video filming, audio, recording, editing, equalizing etc. The whole process from beginning to end of recording the program is carried out into different sections, they are camera control unit, video control room, audio control room, editing room and telecast van.

* **Recording room**

The main purpose of recording room is to record the perfect video which is easily visible to the human eyes. The first and most important component of recording room is lighting which are hanged on top of the room. Each lighting is placed such that every part of room gets occupied by light. Another important component of recording room is background screen. It can be either pictorial or plain green background. This room is also equipped with microphone to capture audio. In recording room, the color temperature is maintained at 3200⁰ K. Camera is used to record or take still image. Functions that are allowed to cameraman are focusing, zoom in or out, etc. Other camera functions are control by camera control unit such as white balance, luminance etc.

* **Camera control unit**

The camera control unit or known as CCU is used to perform extended functions which a camera is not able to perform. The CCU takes the data from camera and the instructions received by camera are visible on four different monitors. These four monitors show recording in four different directions because sometimes you need to take specific shots from specific positions. The functions of CCU are to control picture quality, maintainance blanking level, color temperature control, etc.

* **Video control room**

Video control room is used to control process of shooting a video. The video monitor wall monitors the program, preview of programs, etc. through a set of monitors. The main component of video control unit is mixer, which is used to combine different video signal, change camera view, change background color, etc.

* **Audio control room**

Audio control room mainly controls the audio level, quality, and other audio related parameters. Different audio samples or signals are combined and equalized to generate a signal and perfect audio.

* **Telecast Van / Broadcasting unit**

It broadcast signal to either base station or to satellite which further forward signal to user. It is installed in moving van.

* **Editing Room**

It is used for editing purpose to cut off the unnecessary video/ audio clip from the recording.

Adobe Pro editing software is used for this purpose.