

# REPORT ON INDUSTRIAL VISIT

SoFTNET (T-SAT Network channel)



organised by:

ECE Department, Nalla narasimha reddy group of institutions-hyd

## GLIMPSE OF INDUSTRIAL VISIT

Date: 27 September, 2019

Venue: SoFTNET (T-SAT Network Channel)

Duration: 1Day

Faculty Members: Mr.A.Gopal & Mr.A.Satish Kumar

On the industrial visit we have been taken to 3 different units of the T-Sat office.

1. Studio
2. PCR(Production Control Room)
3. Earth Station (Hub)

Profile:

Society for Telangana State Network (SoFTNET) is an initiative from the Department of Information Technology, Electronics and Communications of the Government of Telangana State to provide quality education harnessing the potential of satellite communications and Information Technology.



SoFTNET: Society for Telangana State Network (SoFTNET)

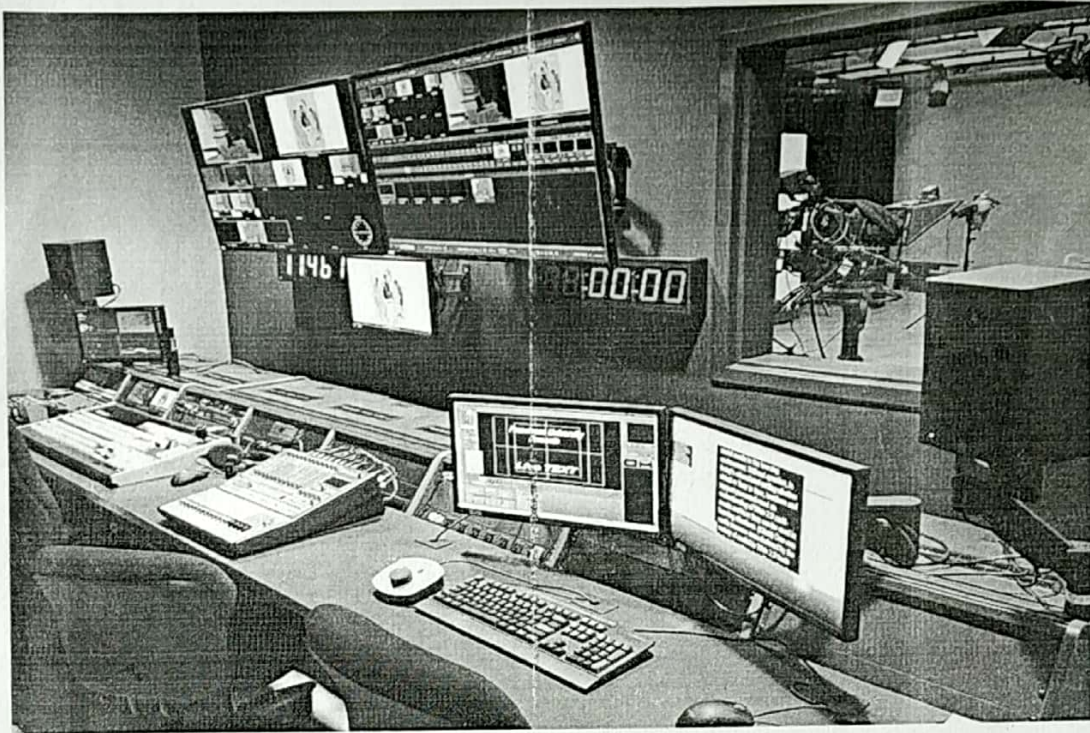
SoFTNET runs two channels named as T-SAT NIPUNA & T-SAT VIDYA. The channels are being used for Distance Education, Human Resources Development and others. SoFTNET prepares collection of videos as to benefit the candidates appearing for different competitive exams.

At first we have been taken to the T-SAT studio

T-SAT studio

The production facilities are setup for in house production, online programs recording and telecast of live transmission in HD Quality. T-SAT TV has three studios each with 2 to 3 digital colour cameras as per requirement, two mini studios, Tabletop cameras, Teleprompter, Laptops for power point presentation, Digital technologies like Digital recorder, Cool lights and Monitoring room for live programs.

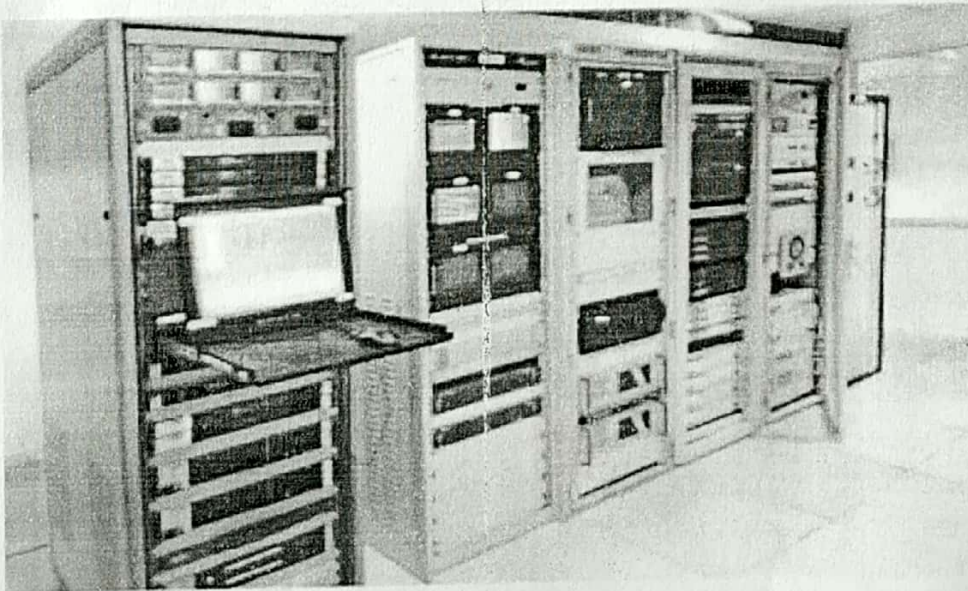
In one of the studio they use only green mat. The green color mat used in the background is known as Chroma Keying. Blue and Green are the colors widely used in the studios. Later in post-processing, the blue screen or green screen background was removed digitally and replaced with a new background, created in a computer. In other studio the sets are already designed

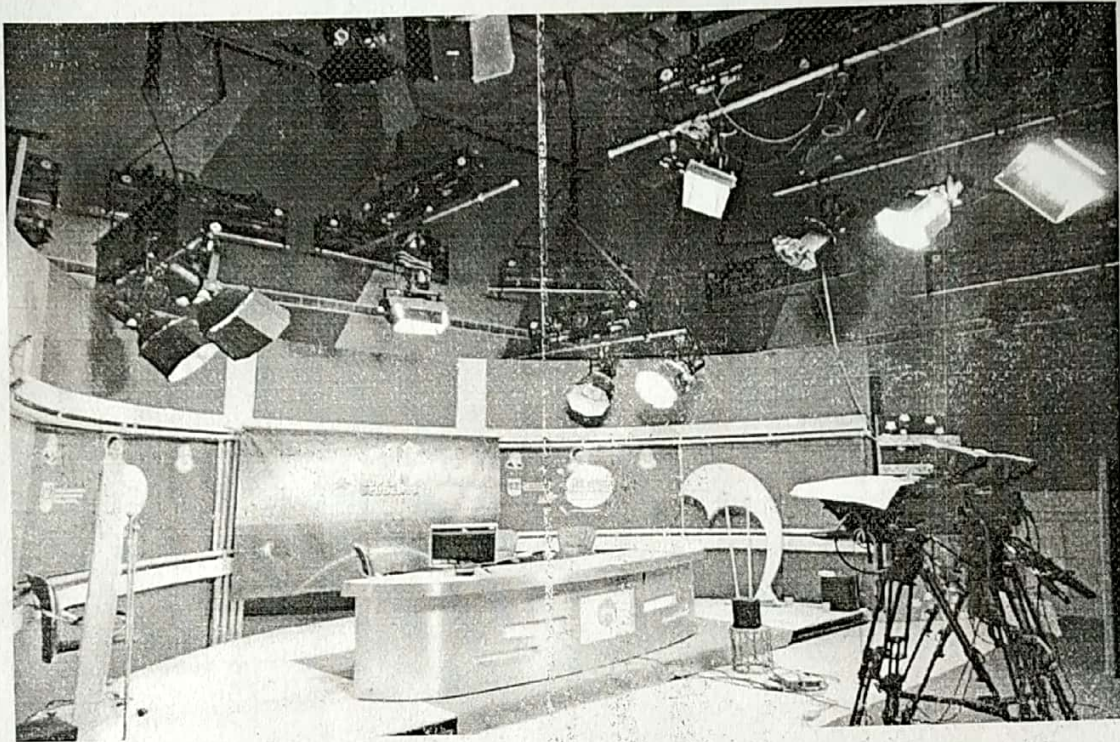


At last we have visited the Earth station.

EARTH STATION(HUB):

The T-SAT TV HUB is a standard uplink for the educational channel. The Earthstation is co-located with the studios and is capable of transmitting six digitally compressed video channels in MCPC mode. The earth station uses DVB MPEG-4 encoders for video/audio.





Next we have been to PCR(Production control room)

PCR (Production Control Room):

Production control room is located beside the studio where the producers can monitor the activities done in the studio through a window. It has audio & video interfacing units, switcher and multiview monitor. In PCR the removal of green or blue screen background is replaced by images or animated videos. The audio sounds like tune, music given before the start of the live program can be taken by a recorder connected to Earthstation.

STUDENTS AT T-SAT:



Outcome of the visit:

The Visit to T-SAT office has given us a nice opportunity to explore and know more about the functioning of Transmission and Receiver as we witnessed as a live program is being telecasted. Also we also got an opportunity to see a real parabolic Antenna.

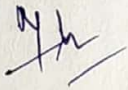
ACKNOWLEDGEMENT:

Students of 3rd year 2nd SEM, sincerely thank The Head of the Department Dr. Khadar baba for providing this opportunity of Industrial Visit at T-SAT office. We also thank Prof. Mr. A. Gopal and Mr. A. Satish Kumar for guiding us during the visit. We also thank T-SAT authorities who helped us through the visit.

~BY

Swetha.P

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