

NATIONAL ACADEMY OF SCIENCE AND TECHNOLOGY

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A Field Visit Report
on

“One Day Educational Tour”

**Submitted in partial fulfillment of the requirements for the Grade 11 Science in
Computer Science**

SUBMITTED BY

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SUBMITTED TO

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ACKNOWLEDGEMENT

Any achievement, be it scholastic or otherwise does not depend solely on individual efforts but on the guidance, encouragement, and cooperation of intellectuals, elders, and friends. we would like to take this opportunity to thank them all.

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DECLARATION

We Amrit Pant, Abhishek Mal, Bharat Bhandari, and Mahendra Bikram, students of the Computer Science of Science group of NAST affiliated to NEB, hereby declare that the work undertaken in this Educational tour entitled “**One-day Educational Tour**” is the outcome of our own effort and is correct to the best of our knowledge. This work has been accomplished by obeying social ethics. It contains neither materials published earlier or written by another person/people nor materials which have been accepted for the award of any other degree of the school or other institution, except where due acknowledgment has been made in the document

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2079/09/18

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2079/09/18

:

CERTIFICATE

This is to certify that the report entitled “**FEILD VISIT OF RADIO NEPAL AND NEPAL TELEVISION AT BUDHITOLA**” is a report of the work carried out by **AMRIT PANT, ABISHEK MAL, BHARAT BHANDAR, MAHENDRA BIKRAM SINGH** under the guidance and supervision of Er. Harendra Bikram Shah for the partial fulfillment of secondary school grade XI certificate level degree of Computer Science by the National Examination Board.

To the best of our knowledge and belief, this work embodies the work of the candidates themselves, has duly been completed, fulfills the requirement of the ordinance relating to the Grade XI degree of the school, and is up to the standard in respect of the content, presentation, and language for being referred to the examiner.

Er. Harendra Bikram Shah
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Table of Contents

S.N.	Contents	Page No.
1.	Introduction..... 1.1.Definition	1-5
2.	Objectives.....	6
3.	Methodology	6
4.	Findings.....	7-8
	Conclusions and Recommendations.....	9
	References.....	

Chapter 1

INTRODUCTION

Radio Nepal

Radio Nepal was established on 2 April 1951. Initially, the transmission covered a duration of 4 hours and 30 minutes through a 250 Watt SW transmitter. Over the years, Radio Nepal has strengthened its institutional capacity considerably and diversified itself in terms of program format, technical efficiency, and coverage. Radio Nepal airs programs on Medium Wave and FM frequencies. Regular broadcasts cover a duration of 24 hours every day which includes approximately 4 hours of province broadcasts from 14:15 hrs. to 18:00 hrs.

Nepal Television



(NTV) is the Nepalese national public state-controlled television broadcaster. It is the oldest and most-watched television channel in Nepal. The news broadcast at 8:00 PM is the channel's most popular show, followed by comedy programs such as Sakkigoni, Mundre Ko Comedy Club, and Meri Bassai.

Repetition Station

Those Stations which amplify the signal from the satellite in order to provide better quality to the audience are known as the repetition station. These stations are used to increase the signal of radios and TVs.

Buditola Repetition Station

This Repetition station lies in the Sudurpashchim Province, Kailali District, Godwari Municipality. It was used as an army base camp during the Maoist civil war, but after the civil war it was established as a repetition station. Currently, it broadcasts Radio Nepal and Nepal Television from the station. It is a fully government-owned Repetition Station.



Chapter 2

OBJECTIVES

- ❖ To observe the working of Radio Nepal Repeating Tower
We have
- ❖ To observe the working of Nepal Television Repeating Tower

Chapter :3

METHODS OF STUDY,

First of all, we fixed the date and place for the educational tour. We collected primarily as well as secondary data by using various methods. We followed the following methods to collect the primary data about Radio Nepal and Nepal Television Repeating station.

❖ Presentation session

Our Teachers and Engineers at the repetition station explained the working of the station.

❖ Observing methods

We also collected secondary data by consulting library books, browsing the internet, etc.

Chapter:4

FINDINGS

We have observed the Different Machines which work together:



This beast (picture of the right side) is a *1kw Digital TV transmitter* that is capable to transmit signals over 9 districts. It's made by a Chinese company BBEF. The Digital Transmitter was not working at the time of writing so they were using an analog transmitter. You know why it's not working.

The machine on the left side of the picture is an Analog transmitter. Which is capable of transmitting analog signals. Obviously, It produces more heat, and it's slower than a digital one.

Working Methodology

Working Principle is very simple. A reporter from Kathmandu telecasts a show then they send it to the Satellite. The Repetition Station Receives the signals from Satellite and Amplifies them using the device shown in the above figure. The Amplified singles are sent using the tower (figure on the first page). The locals receive the signals and enjoy the program

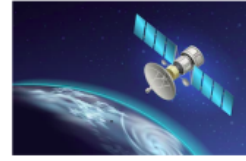
Kathmandu



Record



Send to Satellite



Send to all over world

Buditola



Recieve



Boost the signal



Send to local area

NOTE: THIS IS OVER SIMPLIFIED VERSION OF WHAT ACTUAL HAPPENS BEHIND THE SCENE

CONCLUSION AND RECOMMENDATION,

In Conclusion, We have learned a lot about TV signals, radios, and stuff. I think this place is losing its value because most people are now watching youtube and TikTok. There are also a lot of management issues with the repetition station. Which needs to resolve. Currently, It's a nice place to understand about Tvs and radio but I think in the future this place might turn into a museum because the types of equipment are super old, with no new innovation. No focus of the government. I hope that day never comes because I love this place.

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