

**THE CHANGE OF MEDIUM OF INSTRUCTION AND
ACHIEVEMENT IN MATHEMATICS – A STUDY**

DISSERTATION

Submitted in Partial Fulfillment of the requirement for the degree

OF

**MASTER OF EDUCATION
(ELEMENTARY EDUCATION)
SESSION – (2005-2006)**

To

BARKATULLAH UNIVERSITY BHOPAL



Supervised by:
Sanjaykumar B. Pandagale
Lecturer in Education
RIE, Bhopal

Submitted by:
Twinkle P. Tiwari
M.Ed. (Ele. Edu.)
RIE, Bhopal

REGIONAL INSTITUTE OF EDUCATION

[N.C.E.R.T.]

Shyamla Hills, Bhopal (M.P.)

00002

**THE CHANGE OF MEDIUM OF INSTRUCTION AND
ACHIEVEMENT IN MATHEMATICS – A STUDY**

D-212

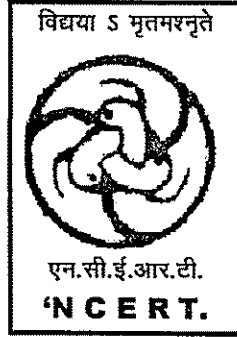
DISSERTATION

Submitted in Partial Fulfillment of the requirement for the degree
Of

**MASTER OF EDUCATION
(ELEMENTARY EDUCATION)
SESSION – (2005-2006)**

To

BARKATULLAH UNIVERSITY, BHOPAL



Supervised by:
Sanjaykumar B. Pandagale
Lecturer in Education
RIE, Bhopal

Submitted by:
Twinkle P. Tiwari
M.Ed. (Ele. Edu.)
RIE, Bhopal

REGIONAL INSTITUTE OF EDUCATION

[N.C.E.R.T.]
Shyamla Hills, Bhopal (M.P.)

CERTIFICATE

This is to certify that Twinkle Prakashchandra Tiwari, a student of M.Ed. (Elementary Education) course in the year 2005-2006 of Regional Institute of Education, Bhopal has worked under my guidance. Her dissertation "*Change of Medium of Instruction and Achievement in Mathematics – A Study*" is original and worthy of presentation in partial fulfillment of the requirement of Degree of Master of Education (Elementary Education) of Barkatullah University, Bhopal (M.P.). The present study is an outcome of her sincere research efforts.

Place: Bhopal

Date: 03 April 2006



Sanjaykumar Pandagale
Lecturer in Education
Regional Institute of Education,
Bhopal.

ACKNOWLEDGEMENT

The present study attempts to study the effect of Change of Medium of Instruction and Achievement in Mathematics. I wish to express my gratitude to Mr. Sanjaykumar Pandagale, Lecturer, Regional Institute of Education, Bhopal for his continuous guidance and encouragement that has led me to plan and complete this dissertation. His intellectual suggestions and creative ideas helped me to work energetically and potentially.

I express my indebtedness to Honorable Prof. M. Sen Gupta, Principal, Regional Institute of Education, Bhopal and Dr. S. K. Gupta, Head, Department of Education, RIE, Bhopal for providing suitable environment and facilities in the institute for conducting this research work. I also thank to all the members of the department of education for sparing their valuable time whenever I approached them with the request.

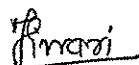
Mrs. Pohankar, Head Mistress, Abhayankar Kanya Shala, Yavatmal and Mr. Achaliya, Head Master, Zila Parishad High School, Yavatmal were most kind and sharing the information and also helping me in the course of data collection. I would also like to thank to all the teachers and students of two schools chosen for the study, for extending all possible help.

I am thankful to Dr. U. Laxminarayan Sir for his continuous and exploring guidance to complete this study.

I am also aware of the fact that the work would not have been completed without the help and active support from RIE Library Staff. Similarly, thanks to my friends, well-wishers and associates who helped me directly and indirectly in completing the study.

Once again I offer my sincere gratitude to Sanjay Sir for all the pains he had to take for me.

Last but not the least, the whole credit goes to my parents, who have been encouraging me in every walk of life through out the year.


Twinkle Prakashchandra Tiwari
M.Ed. (Ele. Education)
RIE, Bhopal.

CONTENT

CHAPTER	Page No.
CHAPTER- I: INTRODUCTION	1-9
1.1 Historical Overview of Medium of Instruction	
1.2 Language	
1.3 Mother Tongue	
1.4 Importance of Language in Mathematics Achievement	
1.5 Medium of Instruction and Achievement in Mathematics	
1.6 Need and Importance of Study	
1.7 Statement of the problem	
1.8 Objectives of Study	
1.9 Hypotheses of the Study	
1.10 Operational Definitions	
1.11 Delimitations of the Study	
CHAPTER- II: REVIEW OF THE RELATED LITERATURE	10-23
2.1 Introduction	
2.2 Related Studies	
CHAPTER- III: RESEARCH METHODOLOGY	24-30
3.1 Introduction	
3.2 Sample	
3.3 Variables	
3.4 Research Tools	
3.5 Administration of Research Tools	

CHAPTER- IV: DATA PRESENTATION, ANALYSIS AND INTERPRETATION 31-37

4.1 Introduction

4.2 Data presentation, Analysis and Interpretations

CHAPTER- V: CONCLUSIONS AND SUGGESTIONS 38-40

5.1 Introduction

5.2 Findings

5.3 Conclusions

5.4 Educational implications

5.5 Suggestions for Further Research

Bibliography:

Annexures:

Annexure – 1: Achievement Test in English.

Annexure – 2: Achievement Test in Marathi.