

**STUDY OF ATTITUDE OF MATHEMATICS TEACHER TOWARDS  
DIKSHA APP IN RANCHI DISTRICT OF JHARKHAND**

**A DISSERTATION SUBMITTED TO  
BARKATULLAH UNIVERSITY, BHOPAL  
IN PARTIAL FULFILMENT OF THE REQUIREMENT OF THE DEGREE OF  
INTEGRATED B.Ed.-M.Ed. PROGRAM IN RIE, BHOPAL**

**2022-2025**

**RESEARCH SUPERVISOR:**

**Dr. Pavan Kumar**

Assistant Professor

Department of Education

**INVESTIGATOR:**

**Prachi Mahto**

Integrated B.Ed.-M.Ed.

Roll No.:2306600326



**Department of Education  
Regional Institute of Education, Bhopal  
(National Council of Educational Research and Training)  
Shyamala Hills, Bhopal, Madhya Pradesh  
NAAC Accredited A++ Grade Institute**

## **CERTIFICATE**

This is to certify that **Prachi Mahto**, student of Integrated B.Ed.-M.Ed. program is enrolled for the academic year 2022-2025 in the Regional Institute of Education, Bhopal has worked under my guidance and supervision for dissertation work entitled “**Study of Attitude of Mathematics Teacher towards DIKSHA App in Ranchi District of Jharkhand**”. I further certify that this work is original and worthy of submission of the requirement of degree of Integrated Three-Year B.Ed.-M.Ed. program of Barkatullah University, Bhopal (M.P.).

**Dr. Pavan Kumar**

Assistant Professor of Education  
Department of Education  
Regional Institute of Education, Bhopal

**Date:**

**Place:**

## **DECLARATION**

I hereby declare that the dissertation entitled “**Study of Attitude of Mathematics Teacher towards DIKSHA App in Ranchi District of Jharkhand**” has been carried out by me during academic year 2022-2025 in partial fulfilment of the requirement for the Degree of Three-year Integrated B.Ed.-M.Ed. program of Barkatullah University, Bhopal (M.P.).

This study has been conducted under the guidance and supervision of **Dr. Pavan Kumar**, Assistant Professor, Department of Education, Regional Institute of Education (NCERT), Bhopal (M.P.).

I also declare that the research work done by me is original. This dissertation work has not been submitted by me for the award of any degree or diploma in this and any other University or Institution.

**Prachi Mahto**  
Integrated B.Ed.-M.Ed.  
Regional Institute of Education, Bhopal

**Date:**

**Place:**

## **ACKNOWLEDGEMENT**

I wish to express my deep sense of gratitude to all those who helped me in the completion of this research work. I am greatly indebted to my research supervisor Dr. Pavan Kumar, Assistant Professor, Department of Education, Regional Institute of Education, Bhopal (M.P.) for his valuable co-operation, support and learned guidance. I shall ever remember that understanding and consideration that I received from him.

I deem it a matter of great privilege to express my profound gratitude to Prof. S. K. Gupta, Principal R.I.E., Bhopal and Dean (I) Prof. Jaydeep Mandal, Former Principal Regional Institute of Education, Bhopal (M.P.) for giving me opportunity to do this particular research work.

I express my gratitude to Prof. Ayushman Goswami, Head, Department of Education, RIE Bhopal for giving me the opportunity to complete this work without any failure. I am also indebted to Prof. B. Ramesh Babu, former Head, Department of Education for inspiring me and for being there as a guiding light throughout the years.

I am also indebted to Prof. I. B. Chugthai, Prof. Ratanmala Arya, Dr N. C. Ojha, Dr. Sanjay Kumar Pandagale, Dr. Manju, Dr. Saurabh Kumar, Dr. Triloki Prasad, Dr. Rajesh Kumar, Dr. Jayant Shankar Borgaonkar and Dr. Madhusudhanan P.V, Department of Education, R.I.E Bhopal for their cooperation and providing enough learning facilities and educational environment.

I am also thankful to principals, teachers and staff members of the schools from where I have collected the data for my research study. I am also thankful to all my classmates who remained as a source of inspiration to me at all time without whom I could not get acceleration time to time for completion of this work.

Last but not least, I own my sincere thanks to my parents for being perennial source of inspiration to me. And especially my brother, without his support, I probably would not have done this dissertation work.

**Date:**

**Place:**

**Prachi Mahto**  
**Student of Integrated B. Ed.-M.Ed.**  
**R.I.E., Bhopal**

### **List of Figures and Table**

<b>SI No.</b>	<b>Description</b>	<b>Page No.</b>
1.	Descriptive Analysis of Data	24
2.	Initial impression of the DIKSHA App and their perception changed over time.	26
3.	Features of Diksha App which were helpful for Mathematics Teacher.	27
4.	Specific instances regarding DIKSHA App which helped to solve a problem or innovative the teaching.	28
5.	Topics or resources feeling missing or inadequate.	29
6.	Suggestion for further improvement.	30

## Table of Content

<b>Chapter 1 Introduction .....</b>	<b>1</b>
1.1 Introduction.....	2
1.2 DIKSHA .....	3
1.2.1 DIKSHA App .....	3
1.2.2 Key Features of DIKSHA App .....	3
1.2.3 Significance of DIKSHA App .....	4
1.3 Attitude .....	4
1.3.1 Characteristic of Attitude.....	5
1.3.2 Component of Attitudes.....	6
1.3.3 Significance of Attitude in Education .....	6
1.4 Mathematics .....	7
1.4.1 Significance of Mathematics .....	8
1.4.2 Mathematics Teacher.....	8
1.5 Need of the Study.....	9
1.6 Present Study .....	9
1.7 Statement of the Problem.....	10
1.8 Operational Definition of Key Terms .....	10
1.9 Objective of the Study .....	10
1.10 Hypothesis.....	10
1.11 Research Question .....	11
1.12 Delimitation .....	11
1.13 Conclusion .....	11
<b>Chapter 2 Literature Review .....</b>	<b>12</b>
2.1 Introduction.....	13
2.2 Review of Literature .....	13
2.3 Research Gap .....	17
<b>Chapter 3 Research Methodology .....</b>	<b>18</b>
3.1 Introduction.....	19
3.2 Research Design.....	19
3.3 Population .....	19
3.4 Sample.....	19
3.5 Research Tools and Techniques.....	20

3.6 Tools Description.....	20
3.7 Data Collection .....	20
3.8 Statistical Techniques of Data Collection.....	20
3.8.1 Meaning of Statistical Techniques .....	20
3.8.2 Statistical Techniques used in Present Study .....	21
<b>Chapter 4 Data Analysis and Interpretation .....</b>	<b>22</b>
4.1 Introduction.....	23
4.2 Data Analysis and Procedure .....	23
4.2.1 Effectiveness of DIKSHA App .....	24
4.2.2 Usefulness of DIKSHA App .....	25
4.2.3. Practical Application .....	25
4.3 Open Ended Questions.....	25
<b>Chapter 5 Findings, Conclusion and Suggestion .....</b>	<b>32</b>
5.1 Introduction.....	33
5.2 Findings.....	33
5.3 Conclusion .....	33
5.4 Educational Implication .....	34
5.5 Suggestions .....	35
5.5.1 Suggestion for Government .....	35
5.5.2 Suggestion for Further Study .....	35
<b>References.....</b>	<b>36</b>
<b>Appendix.....</b>	<b>38</b>