

Principal Investigator M. Shafiqul Islam Trainee investigator (if any) _____Application No ZZ-015 Supporting Agency (if Non-CRL) _____

Title of study Literacy in Matlab : Project status:
An estimation of literacy rates in New Study
a rural area of Bangladesh on the Continuation with change
basis of census reports and objective No change (do not fill out rest of form)
test.

Circle the appropriate answer to each of the following (If Not Applicable write NA):

1. Source of Population:
 - a) Ill subjects Yes No
 - b) Non-ill subjects Yes No
 - c) Minors or persons under guardianship Yes No
 2. Does the study involve:
 - a) Physical risks to the subjects Yes No
 - b) Social risks Yes No
 - c) Psychological risks to subjects Yes No
 - d) Discomfort to subjects Yes No
 - e) Invasion of Privacy Yes No
 - f) Disclosure of information possibly damaging to subject or others Yes No
 3. Does the study involve:
 - a) Use of records (hospital, medical, death, birth or other) Yes No
 - b) Use of fetal tissue or abortus Yes No
 - c) Use of organs or body fluids Yes No
 4. Are subjects clearly informed about:
 - a) Nature and purposes of study Yes No
 - b) Procedures to be followed including alternatives used Yes No
 - c) Physical risks Yes No N.A.
 - d) Sensitive questions Yes No N.A.
 - e) Benefits to be derived Yes No
 - f) Right to refuse to participate or to withdraw from study Yes No
 - g) Confidential handling of data Yes No
 5. Will signed consent form be required:
 - a) From subjects Yes No
 - b) From parent or guardian (if subjects are minors) Yes No
 6. Will precautions be taken to protect anonymity of subjects: Yes No
 7. Check documents being submitted herewith to Committee:
 - Umbrella proposal - Initially submit an overview (all other requirements will be submitted with individual studies).
 - Protocol (Required)
 - Abstract summary (Required)
 - Statement given or read to subjects on nature of study, risks, types of questions to be asked, and right to refuse to participate or withdraw (REQUIRED)
 - Informed consent form for subjects
 - Informed consent form for parent or guardian
 - Procedure for maintaining confidentiality
 - Questionnaire or interview schedule *
- * If the final instrument is not completed prior to review, the following information should be included in the abstract summary:
1. A description of the areas to be covered in the questionnaire or interview which could be considered either sensitive or which would constitute an invasion of privacy.
 2. Examples of the type of specific questions to be asked in the sensitive areas.
 3. An indication as to when the questionnaire will be presented to the Board for review.

We agree to obtain approval of the Review Board on Use of Human Volunteers for any changes involving the rights and welfare of subjects before making such change.

M. Shafiqul Islam
Principal Investigator

Trainee

Please return 2 copies of entire protocol to Chairman, Review Board on Use of Human Subjects.

INFORMATION TO INCLUDE IN ABSTRACT SUMMARY

The Board will not consider any application which does not include an abstract summary. The abstract should summarize the purpose of the study, the methods and procedures to be used, by addressing each of the following items. If an item is not applicable, please note accordingly:

1. Describe the requirements for a subject population and explain the rationale for using in this population special groups such as children, or groups whose ability to give voluntary informed consent may be in question.
2. Describe and assess any potential risks - physical, psychological, social, legal or other - and assess the likelihood and seriousness of such risks. If methods of research create potential risks, describe other methods, if any, that were considered and why they will not be used.
3. Describe procedures for protecting against or minimizing potential risks and an assessment of their likely effectiveness.
4. Include a description of the methods for safeguarding confidentiality or protecting anonymity.
5. When there are potential risks to the subject, or the privacy of the individual may be involved, the investigator is required to obtain a signed informed consent statement from the subject. For minors, informed consent must be obtained from the authorized legal guardian or parent of the subject. Describe consent procedures to be followed including how and where informed consent will be obtained.
 - (a) If signed consent will not be obtained, explain why this requirement should be waived and provide an alternative procedure.
 - (b) If information is to be withheld from a subject, justify this course of action.
6. If study involves an interview, describe where and in what context the interview will take place. State approximate length of time required for the interview.
7. Assess the potential benefits to be gained by the individual subject as well as the benefits which may accrue to society in general as a result of the planned work. Indicate how the benefits outweigh the risks.
8. State if the activity requires the use of records (hospital, medical, birth, death or other), organs, tissues, body fluids, the fetus or the abortus.

The statement to the subject should include information specified in items 2,3,4 and 7, as well as indicating the approximate time required for participation in the activity.

Rcd. Aug. 23, 77
77-015

SECTION I - RESEARCH PROTOCOL

- 1) Title : Literacy in Matlab : An estimation of literacy rates in a rural area of Bangladesh on the basis of census reports and objective test.
- 2) Principal Investigator: M. Shafiqul Islam
- 3) Starting Date : December, 1975.
- 4) Completion Date : December, 1977.
- 5) Total Direct Cost : US \$ 366.00
- 6) Abstract Summary : (250 words or less)

This research was undertaken to study literacy rates in respect of reported and tested ability of reading and writing simple vernacular lessons in Matlab and compare reported literacy of Matlab with those of Bangladesh. Literacy rate by reported educational levels, age and sex of persons aged 5 years and over will be described for Matlab. For Bangladesh literacy rate will be classified by age 5 years and over, sex and relevant administrative units. The two sources of data for this study were the 1974 census of the Cholera Research Laboratory conducted in the Matlab study area in Comilla district of Bangladesh and the national censuses of 1961 and 1974. 11450 persons in 2341 families covering 233 villages of Matlab study area were interviewed on the basis of a five percent systematic sample of families in each of these villages.

The results of study will be presented by cross-tabulations and statistical test of significance will be used for comparison.

- 7) Reviews: (Leave Blank)
 - a) Research Involving Human Subjects : _____
 - b) Research Committee: _____
 - c) Director: _____
 - d) BMRC : _____
 - e) Controller/Administrator : _____

SECTION II RESEARCH PLAN

A. INTRODUCTION

1. **Objective:** This study was undertaken to investigate on literacy in respect of reported and tested ability of reading and writing simple vernacular lessons in Matlab study area of Cholera Research Laboratory and compare reported literacy of Matlab with those of Bangladesh. Literacy rates by reported educational levels, age and sex of persons aged 5 years and over will be described for Matlab. Bangladesh literacy rates will be presented for the same category of persons by age, sex and relevant administrative units.
2. **Background:** Works specifically related to the present study are few in Bangladesh. Literacy data which are available relate to national censuses and mostly are of descriptive nature. In the C.R.L. census of 1974 collection of data on educational levels was given a priority. Unlike other studies on literacy the C.R.L. census enumerators collected information on literacy based on verbal reporting and objective test.

Statistically significant difference was found between the reported and tested literacy rates for both sexes, all age groups and educational grade one to five (difference significant at $P < 0.01$). Females have done better than males in objective test of literacy whereas in reputed literacy males have reported better results than females. (both results statistically significant at $P < 0.01$). Reported and tested literacy rates of Matlab according to the 1974 census of Cholera Research Laboratory were found to be 31.2% & 20.2% respectively. Bangladesh did not make much progress in literacy between the two national censuses of 1961 and 1974. (Percent increased from 21.0 to 24.3). During this period females have done better than males (9.6% to 14.8% vs. 29.3% to 32.9%) in literacy although male literacy always remained higher than that of females. Reported literacy of rural Bangladesh was found to be 22.3% and that of Matlab area 31.2% in 1974.

3. Rationate : Research knowledge and data on literacy will be useful in undertaking epidemiological, nutrition and health researches. The national economic and public health policy makers need to know the correct literacy status of the country's population in order to improve their standard of living.

B. SPECIFIC AIMS

- i. To estimate the literacy rates of Matlab on the basis of report during census and objective test.
- ii. To compare the reported literacy rate of Matlab area with those of rural Bangladesh and its relevant administrative units.

C. METHODS OF PROCEDURE

The two sources of data for this study were the 1974 census of the Cholera Research Laboratory conducted in the Matlab study area in Comilla district of Bangladesh and the national censuses of 1961 and 1974. 11450 persons in 2341 families covering 233 villages of Matlab study area were interviewed on the basis of a five percent systematic sample of families in each of these villages. Reported and tested literacy rates

n by reported educational levels, age and sex of persons 5 years and over will be described for Matlab area. For Bangladesh, literacy rates will be distributed by age, sex and relevant administrative units. Results will be presented by means of cross-tabulations and statistical test of significance will be mainly used to evaluate and compare results.

D. SIGNIFICANCE

Literacy is a useful guide to the educational standard of a country. The literacy rate of our country is usually estimated by means of national censuses which usually count the literate persons. Literacy data in other words, get a secondary consideration in our country. In an underdeveloped country like Bangladesh which is suffering from the scourge of ignorance and illiteracy research work comparing literacy on the basis of census reports and objective test is vitally important for evaluation of progress in the field of literacy.

E. FACILITIES REQUIRED

It is estimated that the study will be completed by December, 1977.

F. COLLABORATIVE ARRANGEMENTS - None.

SECTION III - BUDGET

A. DETAILED BUDGET

1. PERSONNEL SERVICES

<u>Name</u>	<u>Position</u>	<u>Percent of effort or number of days</u>	<u>Annual Salary</u>	<u>Project Requirements</u>	
				<u>TAKA</u>	<u>DOLLARS</u>
Md. Shafiqul Islam	Research Associate	22 days	Tk.43,872	3,713/-	

Sub Total: _____
3,713/-

2. SUPPLIES AND MATERIALS

None

3. EQUIPMENT

None

4. PATIENT HOSPITALIZATION

Not applicable

5. OUTPATIENT CARE

Not applicable

6. CRL TRANSPORT

None

7. TRAVEL AND TRANSPORTATION OF PERSONS

None

8. TRANSPORTATION OF THINGS

None

9. RENT, COMMUNICATION AND UTILITIES

None

10. PRINTING AND REPRODUCTION

Item	<u>Project Requirements</u>	
	<u>TAKA</u>	<u>DOLLARS</u>
Mimeographing	1000/-	
Cover Printing & binding	750/-	
Xeroxing	150/-	
Special reproduction	50/-	
<hr/>		
Sub-total :	1950/-	-

11. OTHER CONTRACTUAL SERVICES

None

12. CONSTRUCTION/RENOVATION AND ALTERATIONS

None

B. BUDGET SUMMARY

<u>CATEGORY</u>	<u>YEAR - 1</u>		<u>YEAR-2</u>		<u>YEAR - 3</u>	
	<u>Taka</u>	<u>Dollars</u>	<u>Taka</u>	<u>Dollars</u>	<u>Taka</u>	<u>Dollars</u>
1. Personnel	3713.00					
2. Supplies	-					
3. Equipment	-					
4. Hospitalization	-					
5. Outpatients	-					
6. C.R.L. Transport	-					
7. Travel Persons	-					
8. Transportation Things	-					
9. Rent/Communication	-					
10. Printing/Reproduction	1950.00					
11. Contractual Service	-					
12. Construction	-					
Total :	5663.00					
Total \$	365.35					

say, 366.00

Conversion Rate \$ 1.00 = 15.50 taka.

ABSTRACT SUMMARY

Title : LITERACY IN MATLAB : AN ESTIMATION OF LITERACY RATES IN A RURAL AREA OF BANGLADESH ON THE BASIS OF CENSUS REPORTS AND OBJECTIVE TEST.

M. Shafiqul Islam

This research was undertaken to study literacy rates in Matlab in respect of reported and tested ability of reading and writing simple vernacular lessons and compare reported literacy rate of Matlab with that of Bangladesh. Literacy rate by reported educational levels, age and sex of persons will be described for Matlab. For Bangladesh literacy rate will be classified by age, sex and relevant administrative units. The two sources of data for this study were the 1974 census of the Cholera Research Laboratory and the Bangladesh national censuses of 1961 and 1974. 11450 persons of 2341 families in 233 villages of Matlab study area were interviewed. Matlab census collected data on the educational levels of every individual five years and over. After completion of census in each village a second visit was made to investigate about literacy status of persons of the above age range in five percent sample families on the basis of verbal report and objective test.

1. The study involved 11450 persons of whom children formed an important segment in 1974 Matlab census of Cholera Research Laboratory.
2. Not applicable (Data already collected from field).
3. Not applicable.
4. The data will be preserved at personal care so that none will have excess to them unless officially required. No identifying information will be recorded from the census books.
5. Not applicable.
- a. Not applicable.
- b. Not applicable.
6. Not applicable (Interview already done in field)
7. This kind of work will create an impact on the individual and society that education and literacy mean development, social welfare and better health.
8. The work was based on census records of 1974 of Cholera Research Laboratory.

Format for the Preparation of Protocols

SECTION I-RESEARCH PROTOCOL

It consists of the cover page to be obtained by the investigator from the Director's Office.

SECTION II-RESEARCH PLAN

- A. INTRODUCTION
 - 1. Objective
 - 2. Background
 - 3. Rationale
- B. SPECIFIC AIMS
- C. METHODS OF PROCEDURE
- D. SIGNIFICANCE
- E. FACILITIES REQUIRED
- F. COLLABORATIVE ARRANGEMENTS

SECTION III - BUDGET

A. Detailed Budget

(As per format available at the Director's office which includes the following Headings)

Category

- 1. Personal Services
- 2. Supplies and Materials
- 3. Equipment
- 4. Patient Hospitalization
- 5. Outpatient Care
- 6. CRL Transport
- 7. Travel and Transportation of Persons
- 8. Transportation of Things
- 9. Rent, Communications & Utilities
- 10. Printing and Reproduction
- 11. Other Contractual Services
- 12. Construction, Renovation, Alterations

B. Budget Summary

With the same categories as above.

GUIDELINES FOR RESEARCH PROTOCOL REVIEW

The following guidelines are to be used to prepare written comments on protocols assigned to you.

1. Description

Write a concise description of the proposal, including aims, procedures, and background, as appropriate to a clear description of the project proposal.

2. Adequacy of Background Information

Does the protocol indicate thorough understanding of the state of knowledge in the field?

Has all relevant work at CRL been cited?

3. Critique of Research Plan

Discuss the strengths and weaknesses of each aspect of the proposal as outlined below:

Is the rationale for this research clearly stated, and supportable by the background information given?

Are the aims well defined, and logical?

Is the approach to the problem valid and likely to yield useful results?

Is the experimental design adequate? Are the numbers of subjects/animals/experiments/justified? Has provision been made for controlling for confounding variables? Is sampling, and/or subject stratification appropriate or required?

Are all procedures feasible? Are they adequately described?

Will the data generated answer each of the questions outlined in the specific aims?

Has careful attention been given to all details, and procedures for data analysis?

Is the analytical framework adequate? Has sufficient attention been given to statistical problems in study design and data analysis?

4. Assessment of Relevance

Will the research produce new data and concepts, or confirm existing hypothesis?

What is the significance and pertinence of the proposed study with regard to the state of the field and importance of the aims?

5. Facilities Required

Are the requirements for facilities adequately presented?

Are the requirements for facilities justified by the research plan?

6. Budget

Is it realistic in terms of the aim and methodology?

Are all items justified on the basis of the approach, procedures, and analysis of data proposed?

Itemize, and provide specific reasons for added requirements, or reduction in the amount proposed.