

**UNIVERSITY GRANTS COMMISSION**

**FORMAT FOR SUBMISSION OF PROPOSAL FOR  
MINOR RESEARCH PROJECT**

**PART – A**

1. Broad Subject : Geography
2. Area of Specialization : Population Geography
3. Duration : 02 Years
4. Principal Investigator
- i. Name: : Mr. Harwalkar Dattatray Swamirao
- ii. Sex: M/F : Male
- iii. Date of Birth : 01/06/1979
- iv. Category : SC
- v. Qualification : M.A.,B.Ed.,NET,M.Phil.
- vi. Designation : Assistant Professor.
- vii. Address
- Office : Mauli Mahavidyalaya Wadala,  
Tal: North Solapur  
Dist : Solapur 413222.
- Residence : 172, Hatture Nagar, Majarewadi,  
Hotagi Road, Solapur 413224
- Email : [harwalkards@gmail.com](mailto:harwalkards@gmail.com)
- Phone : 09552192219

5. Name of the Institution where  
the project will be undertaken :

- a) Department : Geography  
b) College : Mauli Mahavidyalaya, Wadala.  
c) Affiliating University : Solapur University, Solapur.  
d) Whether the institute is located  
in rural/backward area : Rural

6. Whether the University/College/  
Institution is approved under Section  
2(f) and 12 (B) of the UGC Act : Yes.

7. Teaching and Research Experience  
of Principal Investigator:

(a) Teaching experience : UG 07 Year.  
PG 02 Year.

(b) Publication:

Papers Published:

Accepted : 08

Communicated : --

Books Published : --

Accepted : --

Communicated : --

(Please enclose the list of papers and books published and/or accepted  
during last five years)

## **PART – B**

### **Proposed Research Work**

#### **8. I) PROJECT TITLE: A STUDY OF POPULATION GROWTH AND FOOD PRODUCTION IN SOLAPUR DISTRICT**

**II) INTRODUCTION:** Food, clothes, shelter, education and hospitalization are the basic needs of man in day to day life. Food is the most significant need of man among these needs. Food is very essential for existence of man. On the quality of food mans health and other mental, physical and spiritual characteristics are influenced to greater extent.

Now days, due to improvement in the medical facilities the death rate has declined substantially and the birth rate on the other hand remained by and large constant or declined very slowly due to social awareness. As a result of this the population of a country like India is increasing at a very rapid rate, resulting in a very serious and acute problem before the planners. The growth of agricultural production and growth of population ratio is negative proportion.

Among the various problems, the agricultural problem stands perhaps at the first rank. Since, India is a agricultural country, where about two third population of the total is still engaged in the agricultural sectors. Agricultural land is limited and population is growing day by day. Therefore, various problems are created.

#### **\*MEANING AND NATURE OF AGRICULTURAL GEOGRAPHY AND POPULATION GEOGRAPHY:**

The terms agriculture comes from a Latin word namely ‘agricultura’ which has its origin in the words ‘ager’ meaning a field and ‘cultura’ meaning

culture or cultivate. Agriculture implies to the ways of cultivation of crops. According to Andreae-“Agricultural Geography is the science of agriculturally transformed earth’s surface with its associated with physical, social and economic interrelationship as reflected spatially.”

Bernhard- defines “Agricultural Geography as the study of regional variations in agriculture and the factors responsible for them.”

The study of population as the study of size, distribution and composition of population and changes there in and components of such changes which may be defined as fertility, mortality and territorial movements, in fact from the elements of demography.

A definition of population geography can now be attempted; population geography may be defined as, the analysis and geographic interpretation of spatial variations of the structures and values of demographic phenomena.

#### **\*CHOICE OF THE TOPIC AND REGION:**

The choice of the topic is not very arbitrary, since no study of Solapur district has been seriously attempted from this view point of population growth and food production. The analysis of the problems entitled, “A study of population growth and food production in Solapur district” is therefore highly useful to understand the nature of the problems related with growth of population and food production.

#### **III) HYPOTHESES:**

Hypotheses in fact, are the basis of any research. These are facts and realities that exist in the region. Hypotheses are the presupposition on which entire research work is based. Hence, hypotheses are foundation and basis to the research to be carried out on a particular problem. The following certain hypotheses which have been formulated for present study.

1. The region under study belongs to drought prone area where the agriculture is not much developed.
2. Solapur districts belong to drought prone area where the amount of rainfall is below than the state average.
3. The growth of population is influenced by various socio-economic variables.
4. The per capita land holding is declining day by day in the region.
5. The per capita agricultural production is still low in the region.
6. The demand and supply of the agricultural production is not fulfilled by the region itself.

#### **IV) OBJECTIVES:**

Without objectives, no study can be fulfilled and completed. In fact the chief purpose of research is to obtain, the result by fulfilling its objectives. The following certain objectives which have been formulated for present study.

1. To find out the general and agricultural land use and its variations in the region .
2. To find out the proportion of various land under different crops.
3. To analyse the cropping pattern in the region under study.
4. To find out relation between population growth and food production in Solapur district.
5. To find out surplus and deficit areas of the study region.

#### **V) SOURCES OF DATA:**

The data have been collect from various sources. The secondary data have been collect from the socio-economic abstract, census, gazetteers, agriculture department. The primary data have been collect from the selected villages and questionnaires.

## **VI) METHODOLOGY:**

The data collected from the different sources have been processed and the proportions and percentages have been calculated. The processed data have been tabulated and certain cartographic

Techniques have been applied to represent the data as per requirements. Choropleth map, charts, graphs have been use. To find out the surplus and deficit areas in the region have been studied.

## **VII) SIGNIFICANCE OF THE STUDY:**

As we know that the population growth has become an acute problem we need to find out find out the answer to this problem. So through research I will find out the possible solutions for this problem. This study definitely will help to tackle with this problem.

## **VIII) REVIEW OF LITERATURE:**

Sonawane B. G. (1998): have studied agricultural transformation in  
Nanded district of Maharashtra state.

Sharma T. C. (2003): have studied recent trend in crop production in  
Karnataka a post facto equity

Das K. N. (1973): have been studied population pressure and intensity  
of cropping in the Kosi areas, Bihar.

More K. S.(1978): have studied the population pressure on agricultural  
land in South Maharashtra.

## **IX) OUT LINE OF THE WORK :**

The research works have been divided into following chapters.

1. **Introduction:** The first chapter deals with the introduction of the topic in which the justification of the topic and choice of the region have been considered.
2. **Backgrounds of the region:** The second chapter is associated with the different kinds of backgrounds such as physical, historical, economic and social backgrounds have been considered.
3. **Growth of population and Agricultural production:** The third chapter deals with relationship between population growth and growth of agriculture production. The total production of different crops and the availability requirement and surplus and deficit food per capita per days have been analysed.
4. **A Case study for micro level analysis of selected villages:** In the fourth chapter the studies of population and food production have been studied at a micro level studies selected villages.
5. **A correlation matrix of variables influencing the agricultural productivity.**
6. **Conclusion and suggestions.**

#### **X) References:**

1. Chandna, R. C. And Sidhu (1980): Introduction to population geography, Kalyani publishers, New Delhi.
2. Singh Vaishali (2011): Applied Agricultural Geography, Alfa Publication, Kanpur.
3. Mitra K. C. (2012): Populayion Geography
4. Bansali P. C. (1975): Agricultural problems of India
5. Socio- Economic Abstract of Solapur District.
6. Census Handbook of Solapur District.

## **XI) Year-wise Plan of work and targets to be achieved.**

First year: Data collection, 1<sup>st</sup>, 2<sup>nd</sup> and 3<sup>rd</sup> chapter writing.

(12 Months.)

Second year: 4<sup>th</sup>, 5<sup>th</sup> and last chapter writing, D.T.P. binding, etc.

(12 Months.)

## **9. FINANCIAL ASSISTANCE REQUIRED**

<u>Item</u>	<u>Estimated Expenditure</u>
i) Books and Journals:	50000/-
ii) Equipment, if needed: (Please enclose quotations)	50000/-
iii) Field Work and Travel:	50000/-
iv) Chemicals and glassware:	----
v) Contingency (including special needs)	25000/-

-----  
**Grand Total: 1,75,000/-**

**( In Words : One Lac and Seventy Five Thousand Only.)**

**10) Whether the teacher has received support for the research project from the UGC under Major, Minor scheme of support for research or from any agency? If so, please indicate:** NO

i) Name of the agency from which the assistance was approved: N.A.

ii) Sanction letter No. and date under which the assistance was approved: NA

iii. Amount approved and utilized: NA

iv. Title of the project for which assistance was approved: NA

v. In case the project was completed, whether the work on the project has been published: NA

vi. If the candidate was working for the doctoral degree, whether the thesis was submitted and accepted by the University for the award of degree. **Yes,**

**(Thesis submitted and summary attached.)**

vii) If the project has not been completed, please state the reasons: **N.A.**

**11. (a) Details of the project/scheme completed or ongoing: N.A.**

**12. Any other information which the investigator may like to give in support of this proposal:**

Since I have completed M.Phil. Degree, I have submitted my Ph.D. thesis in solapur university. I have the experience of the research. I want to carry out the research on this particular topic to benefit the research scholars, students and society.

-----

**To certify that**

- a. The College is approved under Section 2(f) and 12(B) of the UGC Act and is fit to receive grants from the UGC.
- b. General physical facilities, such as furniture/space etc., are available in the Department/ College.
- c. I shall abide by the rules governing the scheme in case assistance is provided to me from the UGC for the above project.
- d. I shall complete the project within the stipulated period. If I fail to do so and if the UGC is not satisfied with the progress of the research project, the Commission may terminate the project immediately and ask for the refund of the entire amount (with interest) released by the UGC.
- e. The above research Project is not funded by any other agency.

Name

Signature

**Mr. Harwalkar D.S.**  
Principal Investigator

**Dr.G.N.Chitte**

**Principal**

Mauli Mahavidyalaya Wadala.

Tal. North Solapur, Dist. Solapur.

**Dr.B.M.Bhanje**

**BCUD Director**

Solapur University, Solapur.

