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CHAPTER ONE

INTRODUCTION

Construction of a dam is not a new phenomenon. A number of dams of small, medium and large size have been constructed throughout India for various purposes, i.e., irrigation, power generation, water supply for big cities, industries etc.. The river dam constructions are closely attached with green revolution in India. especially in the post-Independence period. But at same time they have created some basic problems the like resettlement and rehabilitation of the project-affected people. According to a conservative official estimate¹ the number of people displaced by development projects since various Independence like dams, mines and power plants, has gone up to 20 million. It has been estimated that out of the 20 million displaced people, 14 million are displaced due to the ambitious dams since Independence in India. The figure does not include all the project-affected people. A very large number of people are not even considered as project-affected. Especially in the river-dam projects there is a need to re-examine the concept of resettlement. The astounding fact is that despite the magnitude of displacement, there is no national policy to cope with

it. According to Central Government's Land Acquisition Government's basically British Land which is Act, Acquisition Act, was passed by British Crown in 1894.² Since the Independence very little changes have been made in the Land Acquisition Act. Under this Act, the government can acquire any privately owned land for policy publi[®]c purpose. Today government about the resettlement of river-dam-affected people is, the villages coming under direct submergence and the villages which are located near the Dam site are supposed to be the dam-affected villages. These villages shifted immediately because they had no alternative but to resettle somewhere else. The government officials try to resettle people whose land will inevitably be consumed by the river project. But the villages situated in the same catchment area of the dam, as the villages located on the top of the hills or at the edge of the hills, along the spurs of the valleys are totally ignored and neglected. forgotten victims of the development. These are the The government officials, planners and the even environmentalists and human rights lobby have ignored and neglected these indirect project-affected people.

As the river dam project comes up, the villages coming under the direct submergence are resettled But somewhere in the down-stream command area. the

villagers who have lived for centuries alongwith these displaced people at slightly higher altitudes in the becomes isolated. Thev are catchment area set same physically, socially, economically, politically apart organizations. Almost places and from other people, they become 'Islanders' or 'Isolated'.³ Unfortunately, the people have not been rehabilitated satisfactorily. Then who will take care of these isolated small villages the remote catchment areas. There is situated in а studies available the isolated lack of reliable on villages located in the river dam catchment areas.

1. THE PROBLEM:

Such isolated villages are facing a number of problems. As the area under the reservoir rises, the means of livelihood of the villages are cut off, due the loss of terrain, besides which their means of to transport and communications get submerged. All these factors gradually result in isolation of these villages. already stated, these villages are As set apart physically, socially, economically and politically from other people, places or organizations especially in the remote hilly areas like Sahyadri, where several are constructed. river-dams The villagers living in the catchment areas of river-dams are struggling for their survival. They have been forced into abject poverty.

They are suffering in the name of public purpose and national interest.

2. THE HYPOTHESIS:

It is hypothesized that the villages located in the catchment area of Warana Dam have been isolated due to the construction of the dam.

3. THE STUDY REGION:

The present study concerns itself with the isolated villages in the catchment area of Warana Dam (Map No. 2). The construction of this biggest earthen dam on the river Warna, a major tributory of Krishna river, was started in 1976 near Chandoli village in Sangli district. The head works for Warna Project were almost complete by June 1993 and created full storage of Vasant Sagar⁴ (28 TMC by Sep. 1993). The total catchment area of Warna Dam is 301 sq km spread in Western part of Sangli and North-western part of Kolhapur district. It has also covered some parts of Satara and Ratnagiri districts. The total submerged area is about 4,500 hectares. The direct submerging 18 villages of Sangli district villages of Kolhapur district were and 9 resettled by June 1986 in the command area of Warna Dam. Since June 1986 the Vasant Sagar coming up step by step, the remaining 14 villages of Sangli district,

7 villages of Kolhapur district, 3 villages of Satara district and 1 village from Ratnagiri district are struggling for their survival. They are isolated from the rest of the world. It is in this context that we made a thorough enquiry of these isolated villages in the catchment area of Warna Dam.

4. OBJECTIVES OF THE STUDY:

Today, the people living in the catchment area of Warna Dam are facing so many problems. Since 1986 the catchment area of Warna Dam has been declared as wildlife sanctuary (State reserve forest). On 30 September and 8 December 1993 the villagers experienced a series of earthquakes.⁵It has been proved that the epicentre of the earthquake is at Chandoli (Kd) just 20 Kms away from the Warna Dam site in the northwest direction. During July 1993 to December 1993 the villagers experienced earthquake almost every day. One thousand earthquakes of medium intensity are recorded on the seismograph at Warnavati centre during July 1993 to 8 December 1993.⁶ Since then the series of low and medium intensity earthquakes has become a routine of villagers living in the catchment area of the Warha The villagers are living with the wild animals Dam. in addition to these earthquakes which cause a constant fear in the minds of the residents in this area.

Government had made а Maharashtra State The plan of resettlement of these earthquake-affected people catchment area but the villagers did living in the not want to shift to the area proposed by the State for relocation in Mangalwedha Government's proposal Taluka of Solapur district.

• Thus, the villagers living in the catchment area of Warna Dam are facing multilateral problems. The main objectives of the present study are as follows:

- (1) Identification of the isolated villages
- (2) The geographical analysis of the isolated villages regarding their physical and environmental setting, landuse pattern, population structure etc.
- (3) The village layout, socio-economic changes and the impact of river dam construction
- (4) The measurement of social fabrication and economic respect linkages [in over time and distance due (spatial)]. The spatial changes to the isolation
- (5) The measurement of the attitudes of the villages regarding the resettlement and rehabilitation.

5. SCOPE AND LIMITATIONS OF THE STUDY:

The present study deals with the geographical aspects of the villages situated in the catchment area.

of the Warna Dam. There is wide scope for the study geography, economics, sociology, human regarding etc., in the region. We sciences got environmental the various aspects the unique examples of in this isolated area which are multifarious and interlinked. This situation demanded an inter-disciplinary approach. That is why we applied different tools and techniques from different disciplines for the purpose of analysis. The scope of the present study could be described as follows:

- (1) The geographical analysis of the villages situated in the catchment area of the Warna Dam
- (2) Spatial changes made in these villages in terms of social fabrics and economic linkages due to the construction of the dam
- (3) A perceptional study of the people living in the area regarding their resettlement study rehabilitation. Measurement of and attitudes of the isolated people towards the resettlement rehabilitation and in terms of mental maps. The present study has certain limitations -
- (1) This study is the first of its kind. Unfortunately there is no national policy to cope with

the displacement due to the development project. There are no ready-made theoretical approaches available to analyse this sort of a situation and it is through trial and error method that the understanding of the problem had to be develop-Though there are several sociological and ed. socio-anthropological studies made, most of studies are concerned with the problems the come under the direct villages which of the submergence of the river dam. No one has paid forgotten victims of attention towards these development.

(2) The situation regarding the resettlement of villages situated in the catchment the area of Warna Dam is unassailable and their sufferings multiple. Firstly they are Dam-affected villages, secondly they are sanctuary-affected and to crown it all, recently they have had the nature's fury by way of earthquakes. So, are a number of problems this area there is encountered with. A11 the same, we have tried to make our recommendations as clear and scientific as possible.

(3) There is a lack of clear-cut definition about

'project-affected villages'. The present the policy of government does not cover the multiproblems created of the dimensional aspects by a river dam construction in the catchment area, especially in the hilly rugged area like western ghats (the Sahyadri). There is a wide government's present policy about between gap factual rehabilitation and the situation the in the catchment area of a river dam. We have tried to bridge the gap.

G · METHODOLOGY :

It is an empirical survey of the isolated villages in the catchment area of Warna Dam. Suitable cartographic and statistical techniques are used for the purpose of spatial analysis. The analysis includes both the more stable aspects of landuse in its natural environment and more dynamic human activities in its social and economic settings.

7. COLLECTION OF PRIMARY AND SECONDARY DATA:

The present work has been carried out with the help of three principal sources, \underline{viz} ., (1) field-work for the acquisition of new data, (2) direct observations of the phenomena associated with landuse pattern, (3) settlement pattern, resettlement and environmental

adjustment with the help of field mapping and interviewing author himself collected the field The procedures. data through questionnaires and interviews of the concerninvolved in the process of resettlement. people ed also met several persons concerned with author The the problems of the isolated villages, i.e., villagers, Sarpanchas of the concerned villages, locāl leaders, Talathis and V.D.O., activities of the 'Warna Dam Affected People's Samiti', government's officials, officers Irrigation Project, Forest Department Warna of the officials.

number of trecking arranged a camps Also we the catchment area of Warna Dam to collect firstin hand information and data. A number of organised field studies were undertaken during different periods of year. Schedules were prepared and interviews based the questionnaires were taken with the heads of on the each and every family of the selected villages.

(A) The secondary data sources include the published reports of the dam divisions, Forest Department, Revenue Department and Socio-economic abstracts, Handbook, District Gazetteers, Census newspaper articles, periodicals (India Today, Lokrajya etc.). All these helped us in getting better picture of the problems of these villages

- (B) Library sources provided search and survey materials in the form of books and reports.
- (C) Cartographic source.

The existing maps prepared by the cartographic division of the Warna Irrigation Project, Forest Department and myself are used for analysis, so also the photographs and field sketches are analysed for better understanding of the problem.

8. PROCESSING OF DATA AND SAMPLING TECHNIQUES:

Sampling techniques are used to select proper representation of the villages in the catchment area. surveys were conducted at micro-level using Landuse techniques. Sampling techniques used for field are both the purposes of landuse studies and selecting villages for the interviews. Ten per cent, i.e., 3 villages out of 25 are selected for the case studies in different geographical settings using stratified weighted sampling techniques.

Data collected from different primary and secondary sources were processed, tabulated and transformed into graphs, diagrams, sketches and maps. Socio-economic surveys were made. These surveys, maps, field sketches, photographs, diagrams, interviews were analysed. The results of the study are based upon the interpretations

of these maps, diagrams, sketches and photographs in the present study.

9. ORGANIZATION OF THE STUDY:

The entire study is organised into six chapters. first chapter presents the information about the The problem, objectives, scope and limitations, methodology and review of literature. The second chapter projects the physical and environmental setting of the catchment The third chapter highlights the area of Warna dam. problems in the isolated villages. Case studies have been undertaken to study the detailed profile of the the subject-matter of the villages which is fourth chapter. Chapter five gives us the information about the attitudes of the villagers living in the catchment area of Warna dam towards their settlement and rehabilitation. This study is mainly based upon their perceptions. The last chapter attempts to summarize the findings of the study. The references are given at the end of every chapter.

10. REVIEW OF THE PERTINENT LITERATURE:

Though there are several socio-economic, geographical, socio-anthropological studies made in this field, all the studies deal with the problems of direct submerging villages, i.e., Vidyut Joshi.⁷ R.B. Patil and Dr. S.N.

Pawar,⁸ Dr. R.N. Hardikar,⁹ P.R. Sawant,¹⁰ Dr, Irawati Karve and J. Nimbalkar,¹¹ and Jagdish Singh.¹² (Listed in references).

The present study is inter-disciplinary in nature, which concerns different disciplines such as geography, sociology, economics, political science, socio-anthropology etc.. Thus the study of the isolated villages demands different types of tools and techniques for the analysis and also an inter-disciplinary approach.

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