

ABBREVIATIONS

DDC	District Development Committee
GIS	Geographic Information System
GPS	Global Positioning System
HMG	His Majesty's Government of Nepal
NPC	National Planning Commission
PDDP	Participatory District development Programme
SDP	Supporting Decentralization in Nepal Project
UNDP	United Nations Development Programme
VDC	Village development Committee

TABLE OF CONTENTS

<i>Contents</i>	<i>Page</i>
Chapter 1. BACKGROUND AND INTRODUCTION	1
Chapter 2. CONCEPTS AND METHODOLOGIES	2
1. Introduction	2
2. Approach and methodology	2
3. Information content	5
4. Map production	5
5. Concluding Remarks	6
Chapter 3. MAPPING OF SERVICES	7
1. Mapped Services	7
2. Base Map for Display	7
3. Map Explanation	7
4. Note to users	8
Annex 1. DISTRICT LEVEL MAPS	10
1. Village Development Committees	
2. Settlements	
3. Primary and Lower Secondary Schools	
4. Secondary Schools	
5. Higher Secondary Schools and College	
6. Health Facilities	
7. Water Supply	
8. Electrification	
9. Telecom Services	
10. Postal Services	
11. Industries	
12. Roads	
Annex 2. VDC LEVEL MAPS	
1. Settlement map	
2. Education map	

VDC Map showing Primary Schools
VDC Map showing Secondary Schools location
VDC Map showing Higher Secondary Schools location

3. Health Facilities

VDC Map showing Clinic location
VDC Map showing Health center location
VDC Map showing Sub-health Post location
VDC Map showing Health Post location
VDC Map showing Hospital location

4. Electrification

VDC Map showing Settlements with electricity

5. Telecom Services

VDC Map showing location of STD local
VDC Map showing location of STD long distance

6. Water Supply

VDC Map showing Settlements with Piped water facilities

8. Industries

VDC Map showing location of Small Industries

9. Postal Services

VDC Map showing location of Post Offices

2

Chapter 1

BACKGROUND AND INTRODUCTION

1. Background

Because of diverse geographical and socio-cultural realities that exist at every place, it is not possible to get quality data that represents local reality without making local institutions responsible in the data collection. At the same time without proper technical support to the local institutions, it is all possible to lose quality in the data. This calls for developing an institutional mechanism that promotes productive participation of all people and institutions of local level in designing and using information system to support in the development of policies that effect the lives of people. Approaches of building geo-referenced database by following participatory procedures were initiated and verified by "Supporting Decentralization in Nepal, NEP/92/027" project in six districts. The Participatory District Development Programme (HMG/UNDP/NEP/95/008) follows the same principles to develop spatial information system for the districts.

One of the major objectives of Participatory District Development Programme (PDDP) (HMG/UNDP/NEP/95/008) is to support local authorities (District Development Committees and Village Development committees) to build information system to support their planning activities.

GIS ties data with location of places and displays them on map. This facilitates the users in comprehending complex information in a simplified way. GIS has been used to organize locally collected, mapped and verified data; process; manage and produce visual information that can be understood easily.

This volume includes different new maps of the district, created by GIS, that did not exist before. The purpose of this report is to disseminate the information about district to different users. After this background, the second chapter contains the brief description of procedures and concepts of GIS developed. The third chapter is straight into the use of maps and their description. Then follows the maps of districts in the order that is listed. VDC level map outputs also have been included for some districts to indicate that the system has abilities to produce such maps when the districts want.

2

Chapter 2

METHODOLOGIES

1. Introduction

The GIS technology and its capabilities to address local development issues were tested and verified first in six districts (namely, Baglung, Syangja, Tanahu, Rupandehi, Nawalparasi and Kaski) covered by then "Supporting Decentralization in Nepal, UNDP/NEP/92/027" project. These DDCs were introduced with mapping, data collection, and tabular and spatial data management techniques.

These six districts were provided technical support by UNDP/NEP/92/027 in visualizing data on GIS maps and generate hardcopy outputs as per their need, from the maps and data prepared and collected by DDCs mobilizing their own resources. The PDDP continues with the concepts developed in six districts of building and managing spatial data at local level. This programme covers fourteen new districts in addition to earlier six, (14 additional districts are: Achham, Baitadi, Dadeldhura, Banke, Dang, Rukum, Kapilvastu, Chitwan, Parbat, Myagdi, Kavre, Nuwakot, Bhaktapur and Dhankuta) and provides continuity to earlier programme of developing spatial data base as a planning support tool in the districts. Nepal maps included show initial six districts (NEP/92/027) and twenty districts covered by the HMG/UNDP/NEP/95/008.

2. Approach and Methodology

Spatial units

Spatial units are decided so as to be able to establish a system of information that is useful at both micro as well as macro level policies. The settlements are main locational entities with which information is associated.

Participatory mechanism

The approach taken makes people and institutions at local level responsible for the information. DDCs and VDCs map their administrative units and locate the settlements on map and collect data mobilizing their own resources for every VDC at VDC ward and settlement levels.

Mapping

One of the strategies tested in the six districts comprised of mapping the location of settlements of Village Development Committees and building settlement data base. This was done on base maps prepared from combination of aerial photo interpretation, topographic maps and Global Positioning System (GPS) collected ground control points.

The new additional fourteen districts make use of topographic maps as well as other maps as supplement depending on their availability for a particular district. These maps are used to delineate VDC, district boundaries and plot settlement location. This work is managed by the participating District Development Committees.

Geographic Information System

Local level data is computerized at the DDC. Maps and data are integrated into a geographic information system at the NPC GIS Facility to produce outputs and support DDCs. Figure 1 shows the GIS sub-systems.

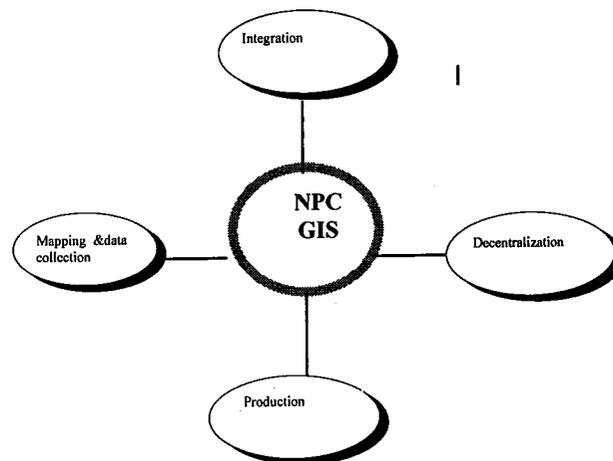


Figure 1. Geographic Information System and its sub-systems.

Facility

GIS operations are carried out and coordinated by the NPC GIS Facility located within the National Planning Commission Secretariat. Products are generated and archived in this Facility. The system comprises of personal computer based Geographic Information System.

3. Information content

(i) Data layers

Original six districts

<i>Layer Name</i>	<i>Source</i>	<i>Source Scale</i>
Rivers/Streams	1978 aerial photo	1:50000
VDC/District Boundary	DDC on aerial photo	1:50000
House Cluster	1978 aerial photo	1:50000
Settlements	DDC	1:50000
Road	GPS Survey	Ground data

Fourteen districts

<i>Layer Name</i>	<i>Source</i>	<i>Source Scale</i>
Rivers/Streams	SOI sheets	1:63363
VDC/District Boundary	DDC	1:63363
House Cluster	SOI sheets	1:63363
Settlements	DDC	1:63363
Road	Different sources	--

(ii) Tabular Database

The settlements consist of the following settlement attributes:

Settlement by settlement information on - population (age and gender), occupation, services, literacy, accessibility, drinking water, electricity, production and sales, natural resources and disaster related information.

4. Map production

Map production is carried out considering their use through two different media:

- (1) digital and
- (2) hardcopy maps

As there are many attributes of a place represented in the data set, the effectiveness of utilization of such an information depends on the needs and imagination of users.

The types of products included in this report are only representative of some of the themes at district and VDC level spatial units. The districts can visualize and use all the data for specific purpose by themselves.

5. Concluding Remarks

The map outputs included here provide a pictorial representation of the condition of the development in district. The way information is used by means of GIS can always vary, and effectiveness of its use depends on the innovation and imagination of users. This only represents few of several possibilities of establishing and using GIS at local and central level using a participatory mechanism.

Since local institutions (VDCs and DDC) are involved in the mapping and data collection, the quality depends on their ability to understand the importance and usefulness of information. In addition to presenting spatial patterns of development, the kinds of maps included in here will also help the local authorities to understand the need to improve the quality of information they collected. The maps produced here need to be updated from time to time. This is only the beginning to realize the importance of collecting data accurately both in content and location.

❧

Chapter 3.

MAPPING OF SERVICES

1. Mapped Services

Different services whose distribution is mapped is categorized into the following headings which appear on their respective maps.

1. Settlements
2. Primary Schools
3. Secondary Schools
4. High Schools and College
5. Health Facilities
6. Postal Services
7. Electrification
8. Telecom Services
9. Water Supply
10. Industries
11. Roads

2. Population as base map for display

Distribution of VDC population has been classified into 4 groups and shaded according to increasing darkness for VDCs with large populations. The more is the population of a VDC, the darker is the shading. This map has been used to display other services so that it would become easier to understand the spread of services in relation to the population in the whole district.

3. Map Explanation

1. Village Development Committee

The "Village Development Committees" map shows location of all the VDCs and district headquarters. The VDCs are shaded according to population. This map can be used for plotting or displaying additional information by the user. The purpose of this map is to show distinctly all the boundaries and their legend, if in case they are missing in other thematic maps.

2. Settlements

The "Settlements" map shows all the settlements of the district overlaid on VDC map with population. Settlement is a place where people live and has geographic name

commonly recognized by the people of the VDC. The settlement is the basis of location of all services.

Note to map readers/ users
Map users should read the title, legend and map to understand the information it carries. For complete understanding, there are following features on the map that call for the attention of the map reader/user:

- A. Map title.
- B. Map legend
- C. Note about mapping approach
- D. Scale /north arrow and
- E. Map itself.

The maps are mostly self explanatory. There is a map title, that speaks about the kind of map and the legend that symbolizes the features represented on map.

3. *Primary Schools*

This map shows the pattern of distribution of primary schools in whole district with respect to population. Primary Schools are the schools up to grade 5.

4. *Secondary Schools*

This map shows the distribution pattern of secondary schools in the district. Secondary schools teach students up to class 8.

5. *High Schools and College*

This map shows the spatial distribution of high schools in whole district with respect to total population in each VDC. High schools teach up to grade 10. Colleges teach above 11th grade.

6. *Health Facilities*

This maps the location of health facilities in whole district. The facilities are classified into the following groups: Clinic, Health post, Sub-health post, Health center and Hospital.

7. *Postal Services*

This map shows the location of all the post office in the district. The post offices are not classified in terms of their types.

8. Electrification

These map shows settlements which have electricity for lighting. All other settlements with no electricity are shown by small dots.

9. Telecom Services

This map shows the location of telecommunication services in the district. The services are mainly of two types STD (local) and STD (long distance).

10. Water Supply

This map shows all the settlements that have access to piped water for drinking purposes. Other settlements are shown by small dots shows the communities which have to use water from sources other than piped supply.

11. Industries

This map shows the settlements for the presence of some sort of small industry - such as cottage and handicraft for weaving, paper making etc.

12. Roads

This map shows the roads in the district. The roads were surveyed using a Global Positioning System.

References:

- Basnyat, Manoj Bahadur. 1994. *Introducing Participatory Development*, NPC Decentralization Support Project, UNDP/NEP/92/027.
- KC, Indra Sharan. 1992. *GIS in the Context of Rural Development Planning*, Strengthening Decentralized Planning, UNDP/NEP/88/009.
- Lundberg, Paul 1994. *Towards Sustainable Human Development: Theory and Practice*. NPC Decentralization Support Project, UNDP/NEP/92/027.

NOTE: Comments are appreciated, and they should be sent to the NPC GIS Facility, Room 423, National Planning Commission Secretariat, Singha Durbar. Tel 228200 ext 291, 523770, 527940.

♫

Annex 1 - District Level Maps

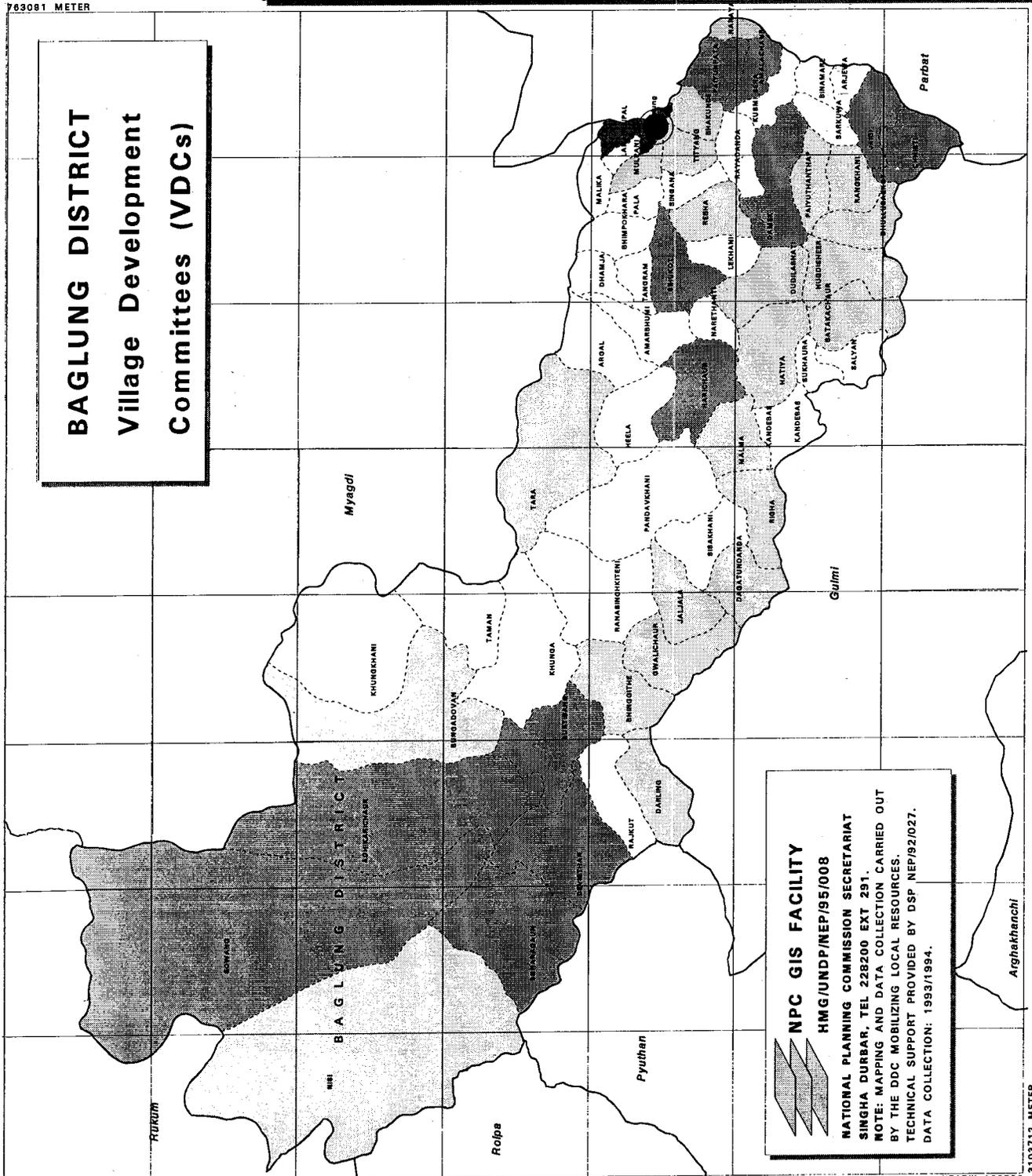
GIS MAPS OF BAGLUNG DISTRICTS

1. BAGLUNG DISTRICTS : Village Development Committees (VDCs)
2. BAGLUNG DISTRICTS : Settlements
3. BAGLUNG DISTRICTS : Primary Schools
4. BAGLUNG DISTRICTS : Secondary Schools
5. BAGLUNG DISTRICTS : High Schools and College
6. BAGLUNG DISTRICTS : Health Facilities
7. BAGLUNG DISTRICTS : Postal Services
8. BAGLUNG DISTRICTS : Electrification
9. BAGLUNG DISTRICTS : Telecom Service
10. BAGLUNG DISTRICTS : Water Supply
11. BAGLUNG DISTRICTS : Industries
12. BAGLUNG DISTRICTS : Roads



3173712 METER

BAGLUNG DISTRICT Village Development Committees (VDCs)



LEGEND

Population Class

	7550 - 9513
	5587 - 7550
	3623 - 5587
	1660 - 3623

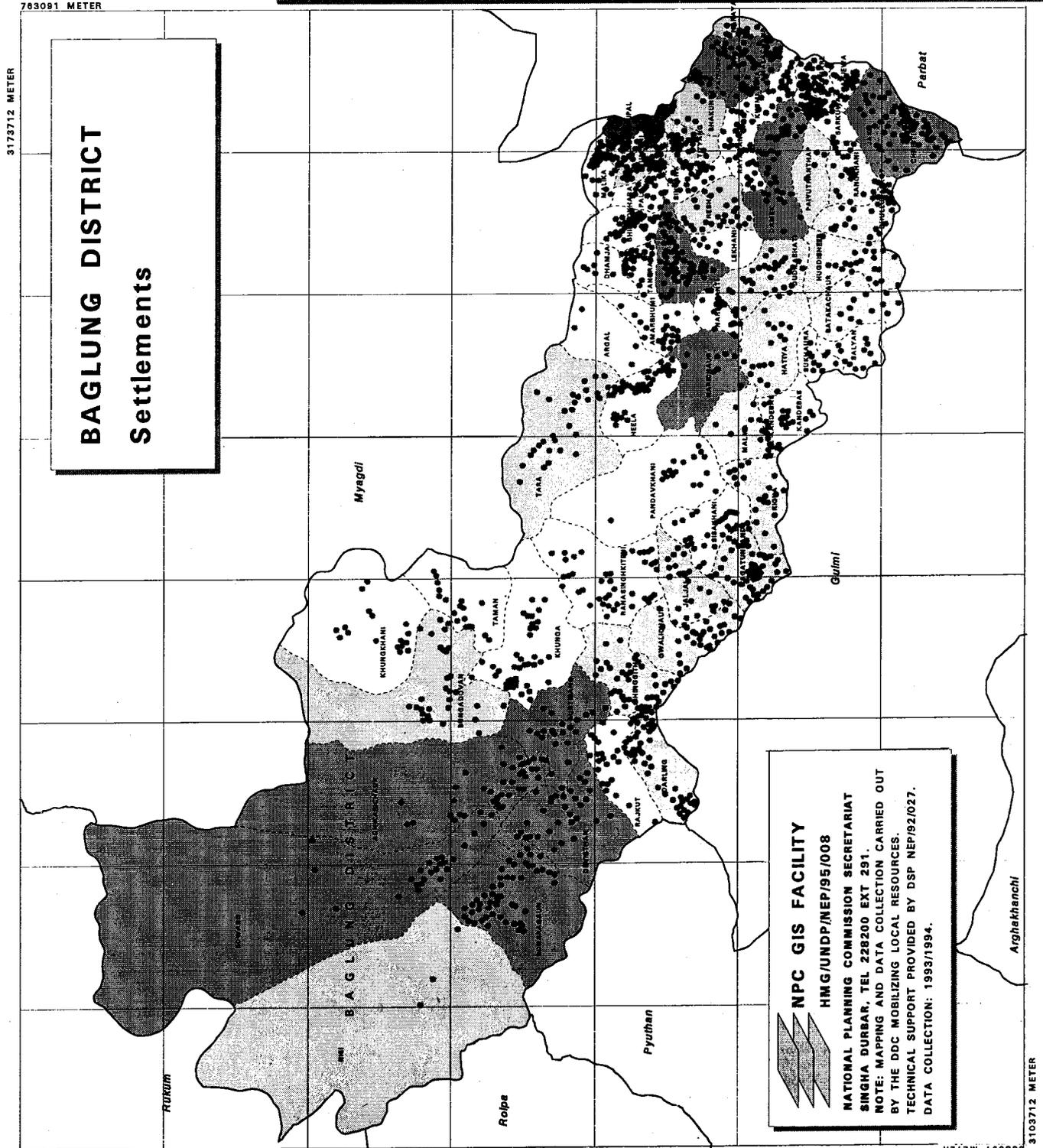
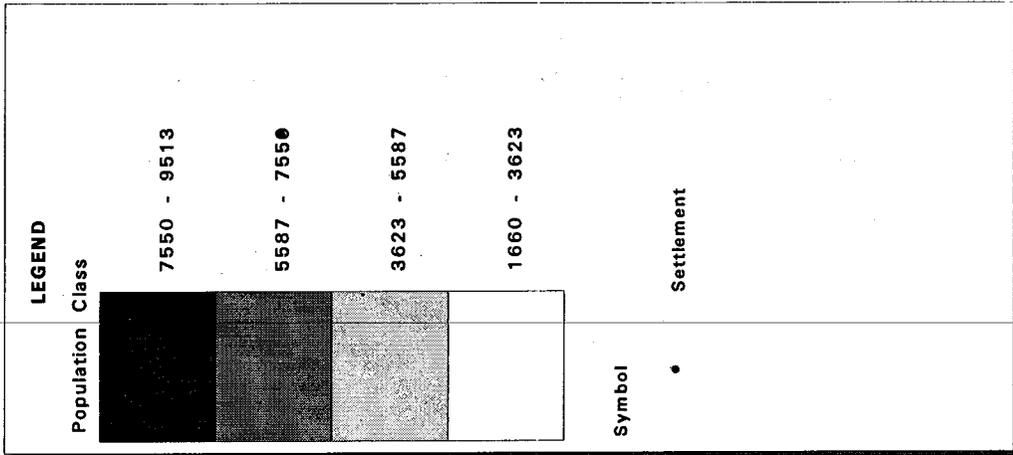
Symbol

	District Headquarters
	VDC Boundary
	District Bndry

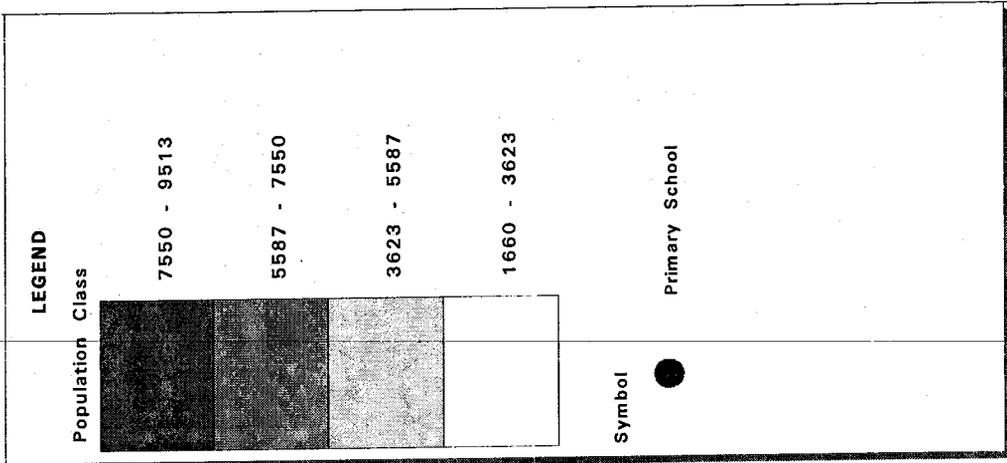
NPC GIS FACILITY
 HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION SECRETARIAT
 SINGHA DURBAR, TEL 228200 EXT 291
 NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
 BY THE DDC MOBILIZING LOCAL RESOURCES.
 TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
 DATA COLLECTION: 1993/1994.

93091 METER

3103712 METER

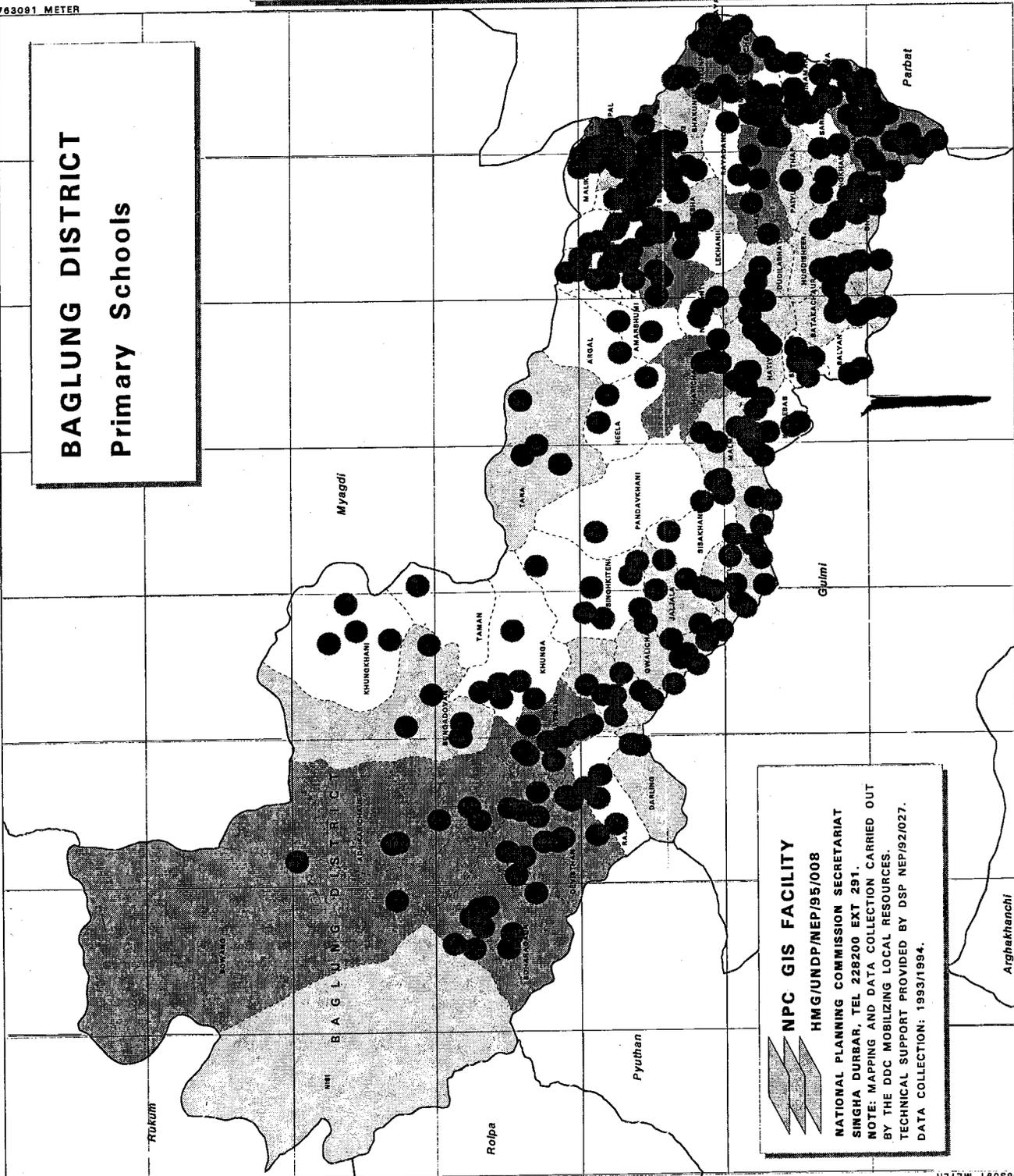


NPC GIS FACILITY
 HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION SECRETARIAT
 SINGHA DURBAR, TEL 228200 EXT 291
 NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
 BY THE DDC MOBILIZING LOCAL RESOURCES.
 TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
 DATA COLLECTION: 1993/1994.



3173712 METER

**BAGLUNG DISTRICT
Primary Schools**



NPC GIS FACILITY
 HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION SECRETARIAT
 SINGHA DURBAR, TEL 228200 EXT 291.
 NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
 BY THE DDC MOBILIZING LOCAL RESOURCES.
 TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
 DATA COLLECTION: 1993/1994.

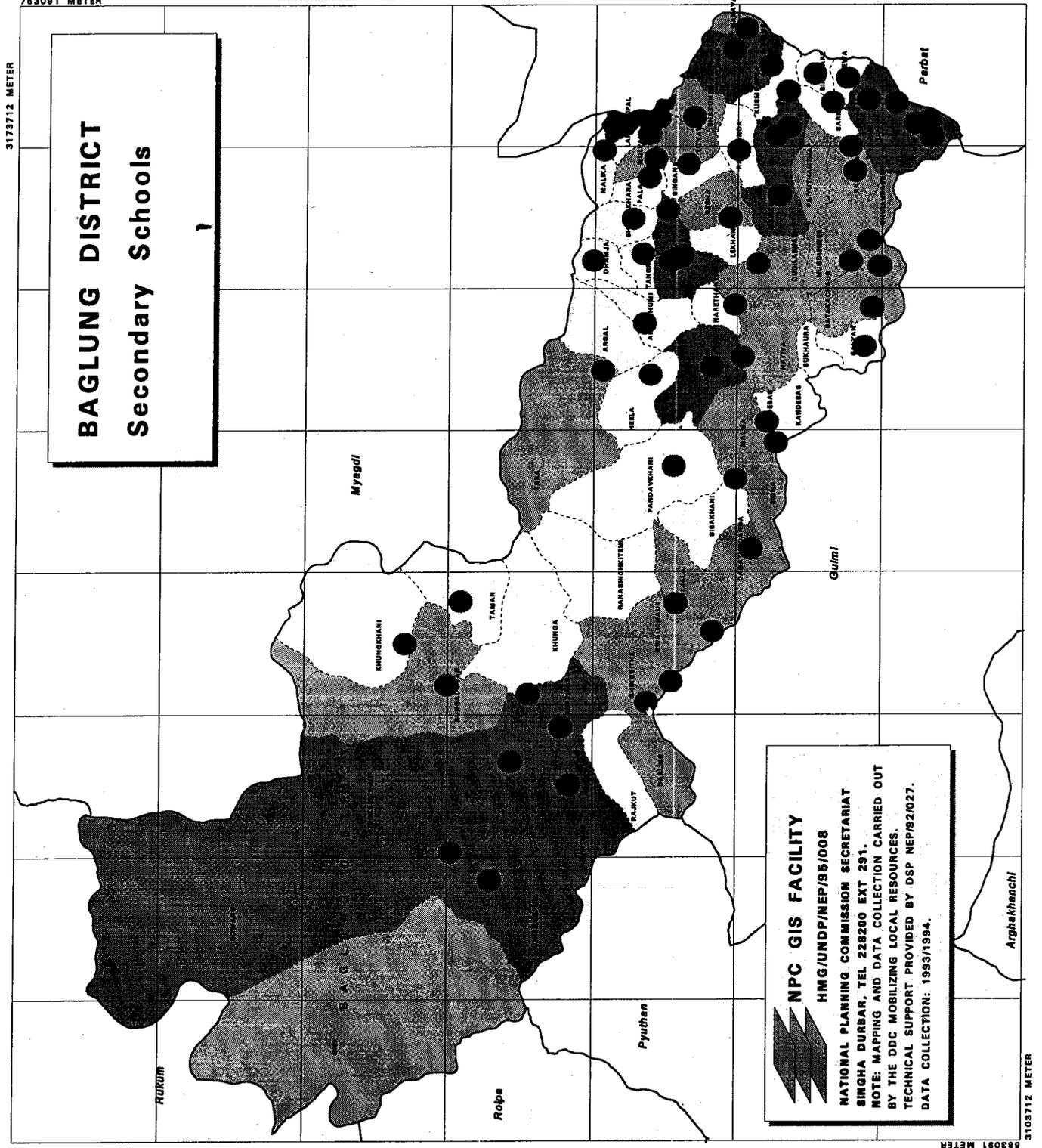
93091 METER
3103712 METER



LEGEND

Population Class	Symbol
7550 - 9513	●
5587 - 7550	●
3623 - 5587	●
1660 - 3623	●

Secondary School



3179712 METER

763091 METER

3103712 METER

892091 METER



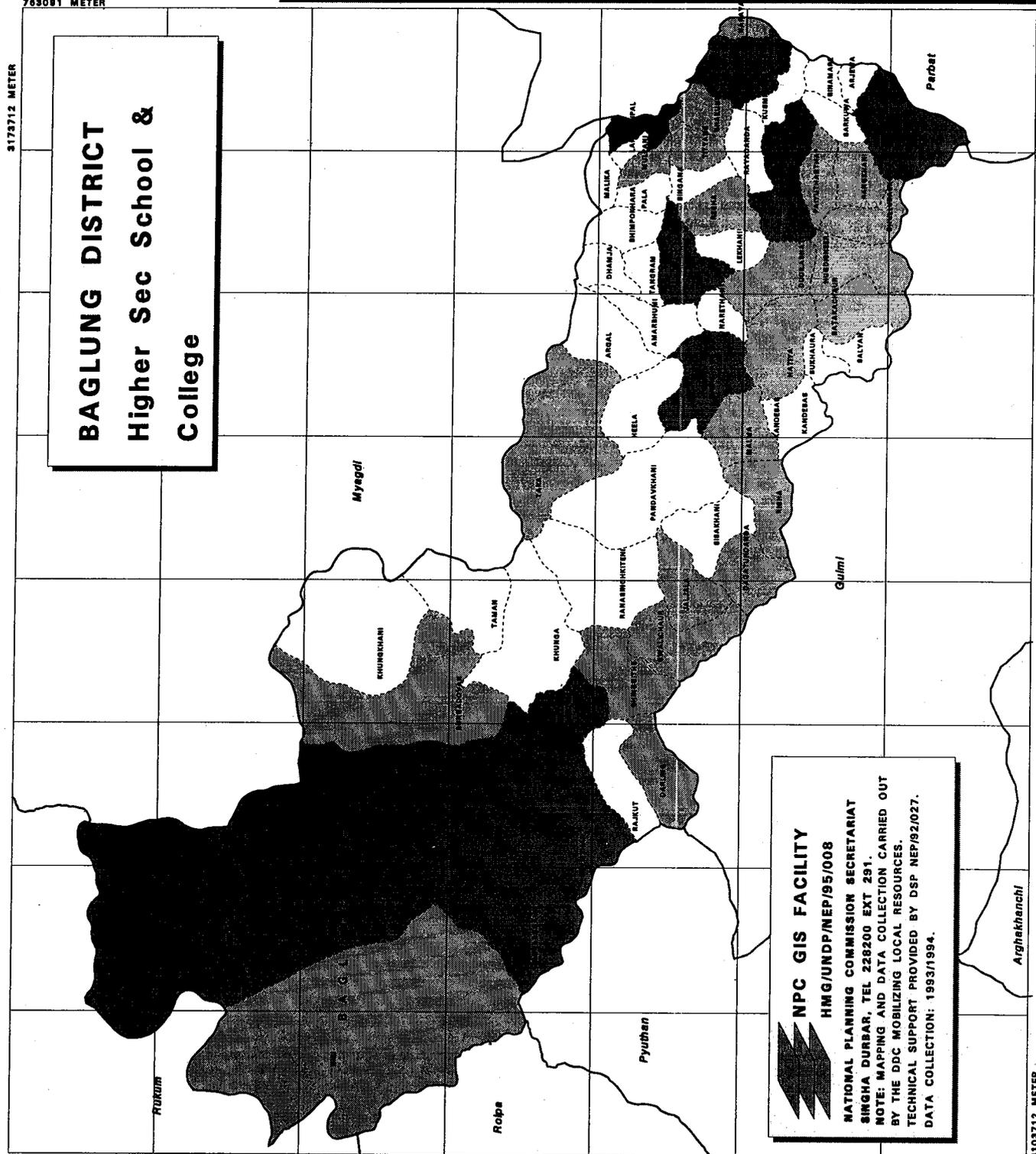
LEGEND

Population Class

	7550 - 9513
	5587 - 7550
	3623 - 5587
	1660 - 3623

Symbol

○	Higher Sec School
○	College



**BAGLUNG DISTRICT
Higher Sec School &
College**

NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION SECRETARIAT
SINGHA DURBAR, TEL 228200 EXT 291.
NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
BY THE DPC MOBILIZING LOCAL RESOURCES.
TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
DATA COLLECTION: 1993/1994.

3173712 METER

763091 METER

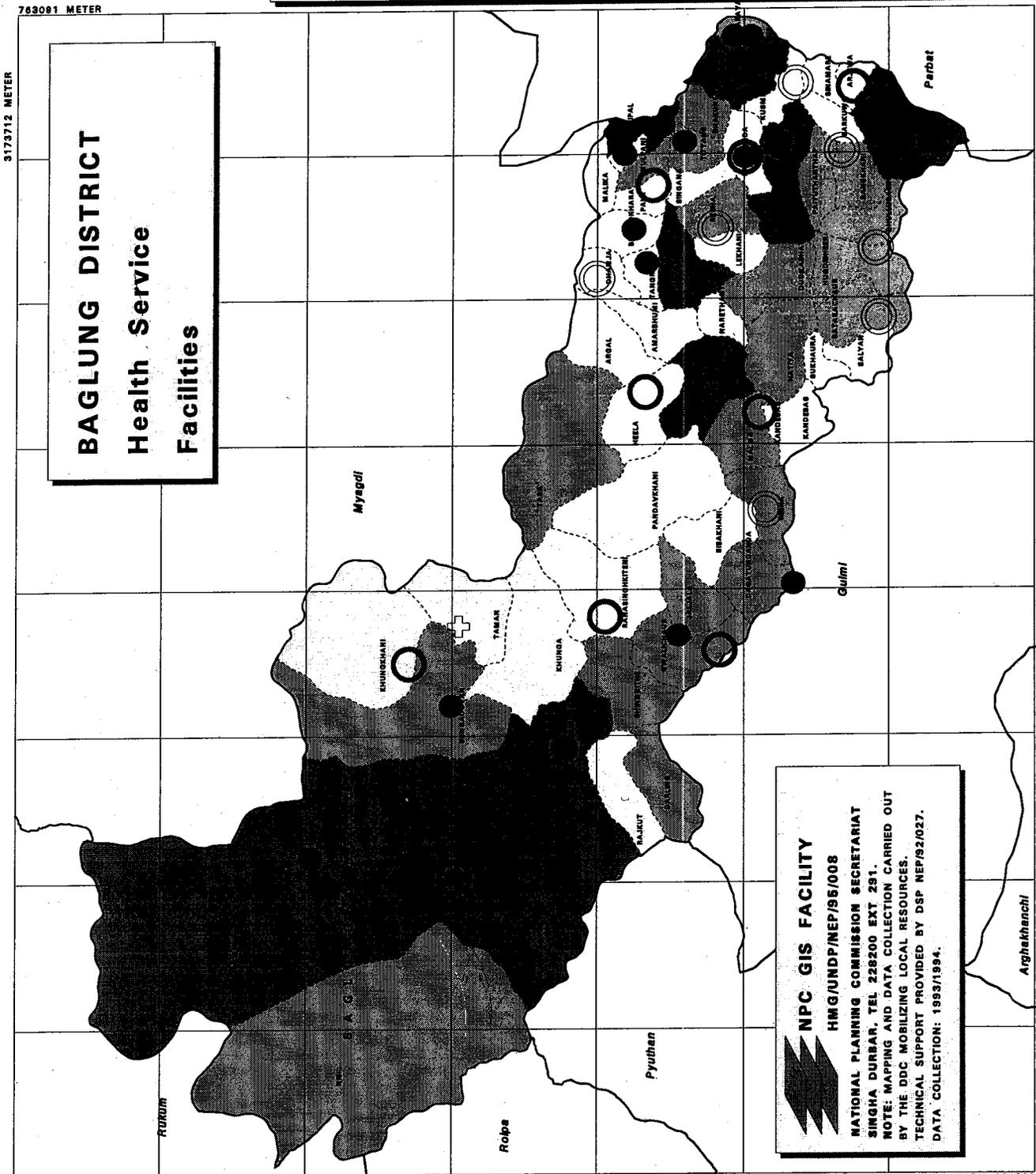
93091 METER

3103712 METER



LEGEND

Population Class	Symbol	Facility Type
7550 - 9513	●	Clinic
5587 - 7550	+	Health Center
3623 - 5587	○	enter
1660 - 3623	⊙	Health Post
	⊠	Hospital



BAGLUNG DISTRICT
Health Service
Facilities

NPC GIS FACILITY
 HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION SECRETARIAT
 SINGHA DURBAR, TEL 228200 EXT 291.
 NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
 BY THE DDC MOBILIZING LOCAL RESOURCES.
 TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
 DATA COLLECTION: 1993/1994.

983091 METER

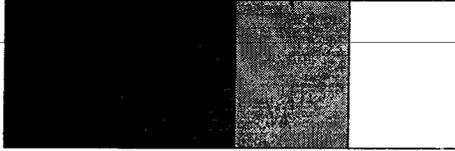
3173712 METER

Arghekhanchi

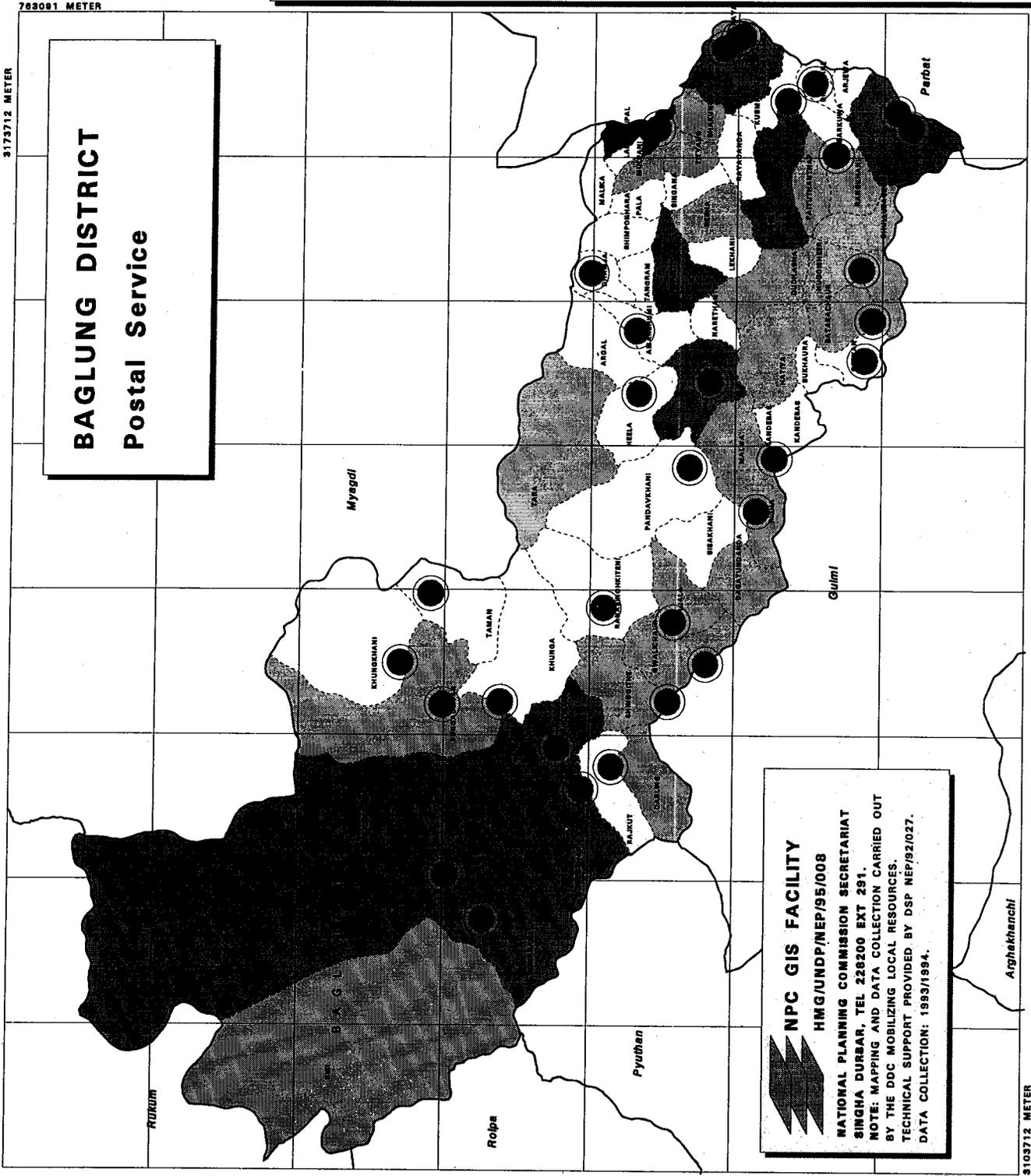
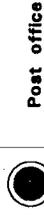


LEGEND

Population Class



Symbol



BAGLUNG DISTRICT
Postal Service

NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION SECRETARIAT
SINGHA DURBAR, TEL 228200 EXT 291.
NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
BY THE DDC MOBILIZING LOCAL RESOURCES.
TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
DATA COLLECTION: 1993/1994.

3179712 METER

93091 METER

3103712 METER

3173712 METER

763081 METER



**BAGLUNG DISTRICT
Electrification**

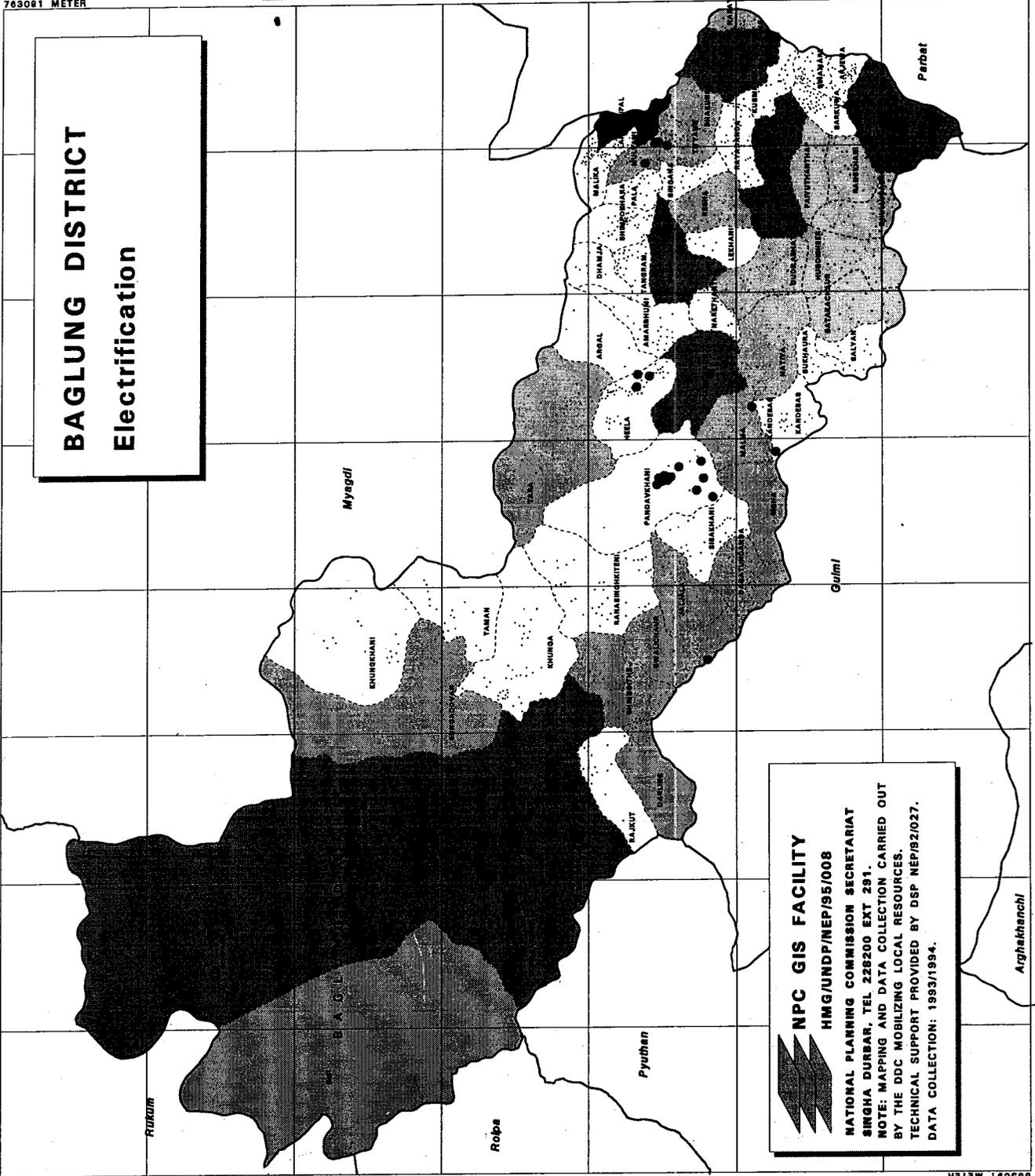
LEGEND

Population Class

	7550 - 9513
	5587 - 7550
	3623 - 5587
	1660 - 3623

Symbol

- Electrified
- Non-electrified



NPC GIS FACILITY
 HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION SECRETARIAT
 SINGHA DURBAR, TEL 228200 EXT 291.
 NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
 BY THE DDC MOBILIZING LOCAL RESOURCES.
 TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
 DATA COLLECTION: 1993/1994.

883091 METER

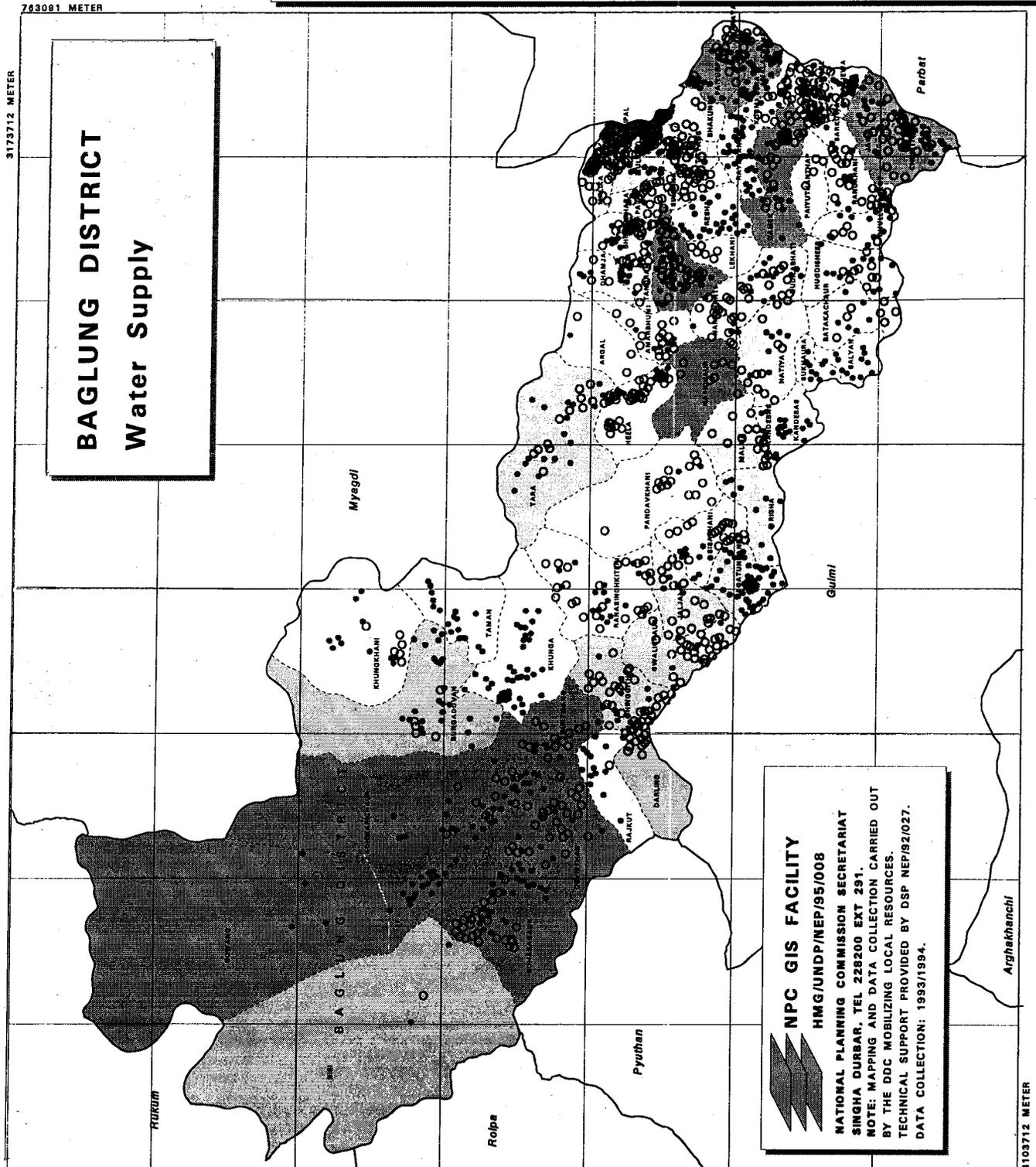
3103712 METER



LEGEND

Population Class	Symbol
7550 - 9513	○
5587 - 7550	●
3623 - 5587	○
1660 - 3623	●

Piped Water
Natural Source



BAGLUNG DISTRICT
Water Supply

NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION SECRETARIAT
SINGHA DURBAR, TEL 228200 EXT 291.
NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
BY THE DDC MOBILIZING LOCAL RESOURCES.
TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
DATA COLLECTION: 1993/1994.

3173712 METER

3103712 METER

983091 METER



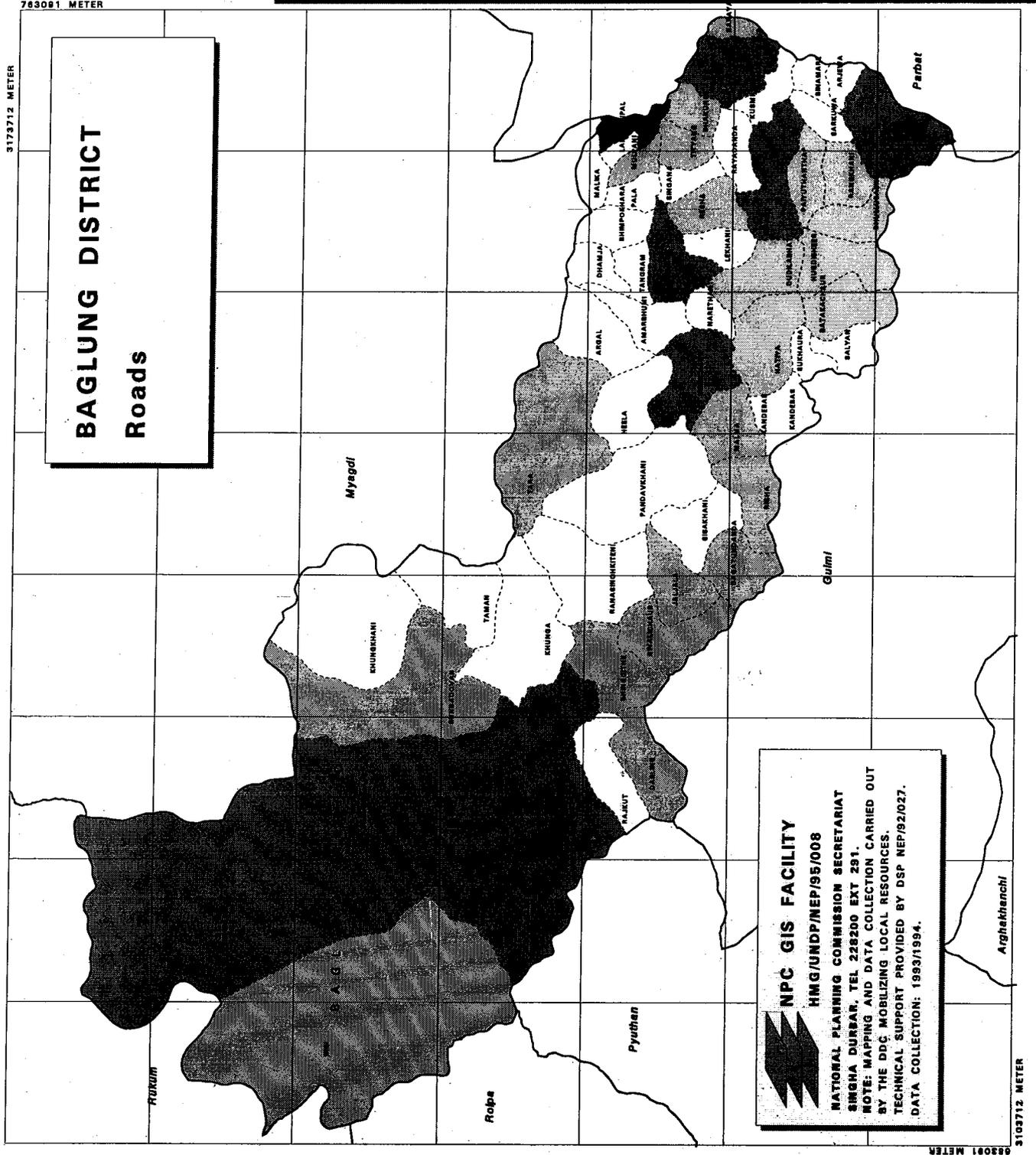
LEGEND

Population Class

	7550 - 9513
	5587 - 7550
	3623 - 5587
	1660 - 3623

Symbol

	Roads
	VDC Boundary
	District Boundary



BAGLUNG DISTRICT
Roads

NPC GIS FACILITY
HMG/JNDP/NEP/95/008
NATIONAL PLANNING COMMISSION SECRETARIAT
SINGHA DURBAR, TEL 226200 EXT 291.
NOTE: MAPPING AND DATA COLLECTION CARRIED OUT
BY THE DDG MOBILIZING LOCAL RESOURCES.
TECHNICAL SUPPORT PROVIDED BY DSP NEP/92/027.
DATA COLLECTION: 1993/1994.

3173712 METER

083091 METER

3103712 METER

Annex 2 - VDC Level Maps

VDC LEVEL MAPS OF SERVICE LOCATION

1. Settlement Map

2. Education Map

- VDC Map showing Primary Schools location
- VDC Map showing Secondary Schools location

3. Health Facilities

- VDC Map showing Clinic location
- VDC Map showing Health Center location
- VDC Map showing Sub-Health Post location
- VDC Map showing Health Post location
- VDC Map showing Hospital location

4. Electrification

- VDC Map showing settlements with Electricity

5. Tele-Communication Services

- VDC Map showing location of STD services
- VDC Map showing location of ISTD services

6. Water Supply

- VDC Map showing settlement with Piped Water facilities

7. Industries

- VDC Map showing location of Industries

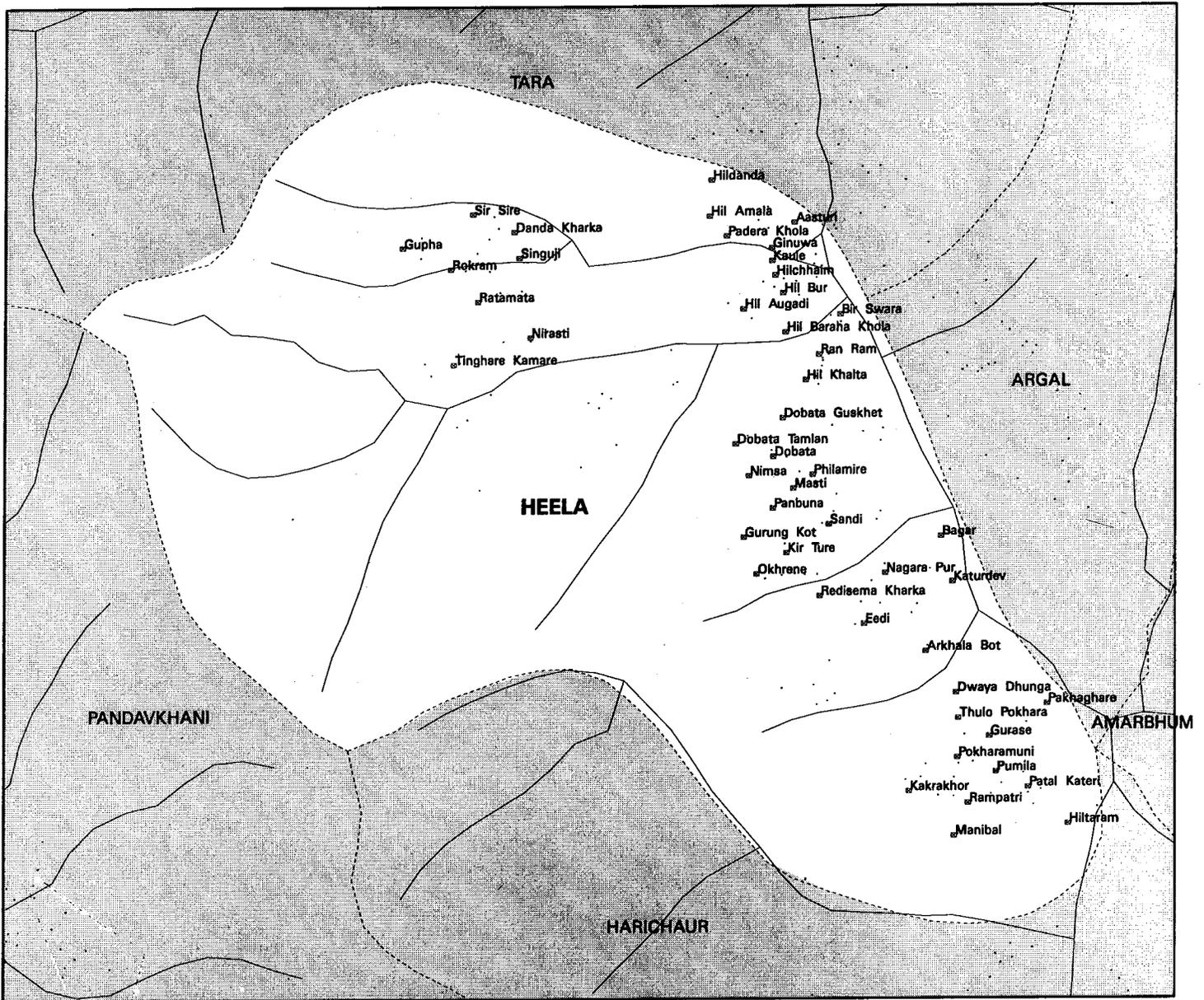
8. Postal Services

- VDC Map showing location of Post Offices

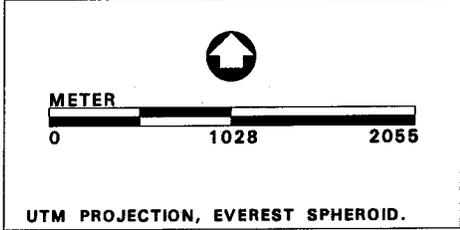
2

BAGLUNG DISTRICT

HEELA VDC



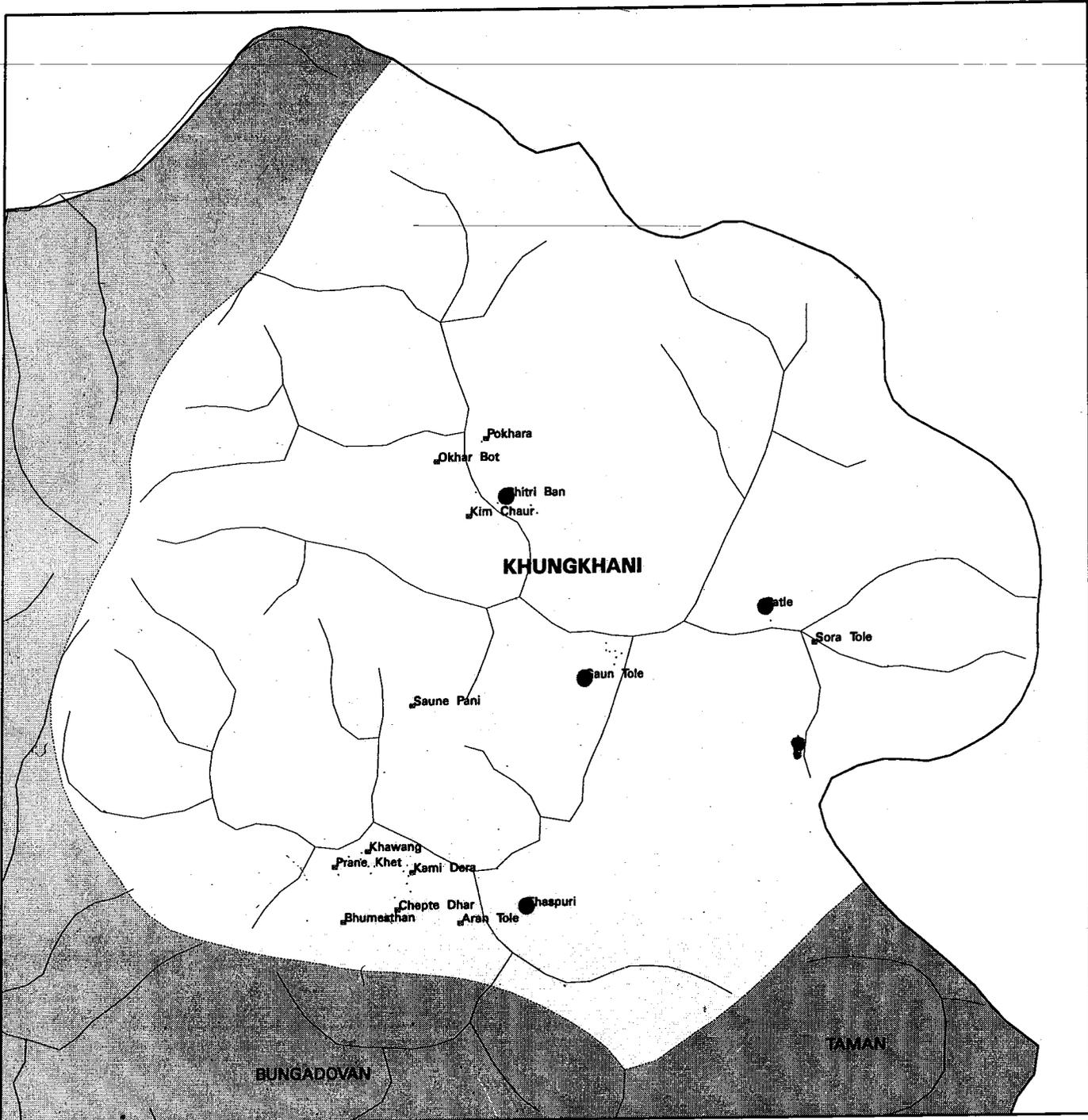
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
 NATIONAL PLANNING COMMISSION
 SECRETARIAT, SINGHA DURBAR
 KATHMANDU, TEL: 228200, EXT 291.



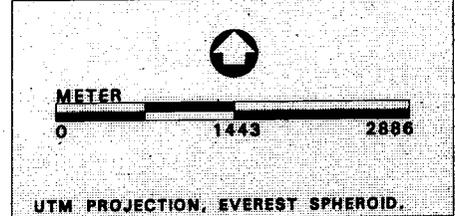
LEGEND

- SETTLEMENT
- - - VDC BOUNDARY
- RIVER/STREAM
- ... HOUSE CLUSTER
- DISTRICT BOUNDARY

**BAGLUNG DISTRICT
KHUNGKHANI VDC**



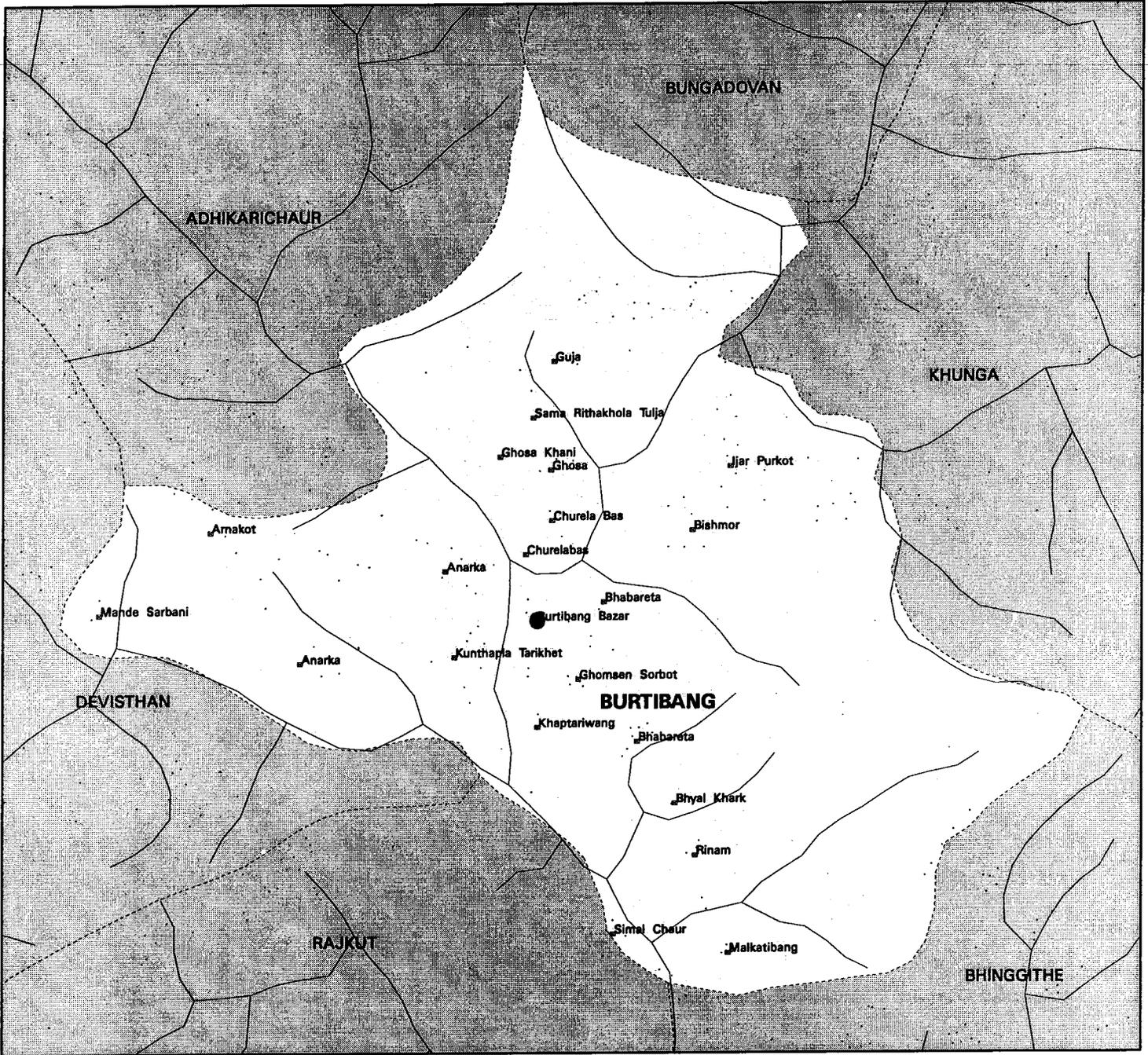
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



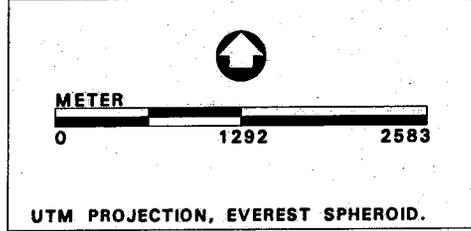
LEGEND

- SETTLEMENT
- VDC BOUNDARY
- RIVER/STREAM
- ... HOUSE CLUSTER
- PRIMARY SCHOOL
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
BURTIBANG VDC



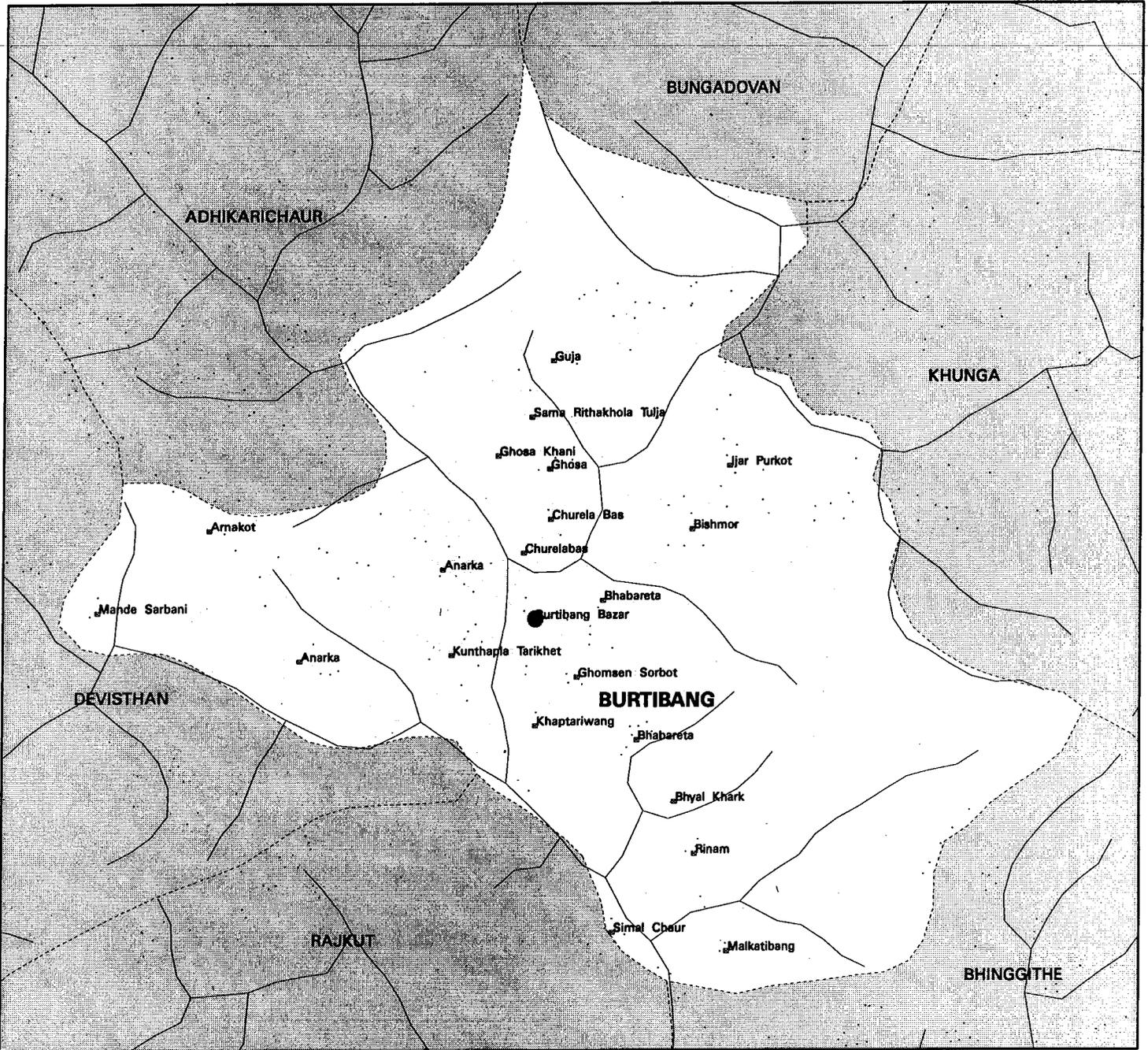
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



LEGEND

	SETTLEMENT
	VDC BOUNDARY
	RIVER/STREAM
	HOUSE CLUSTER
	SECONDARY SCHOOL
	DISTRICT BOUNDARY

**BAGLUNG DISTRICT
BURTIBANG VDC**



NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.

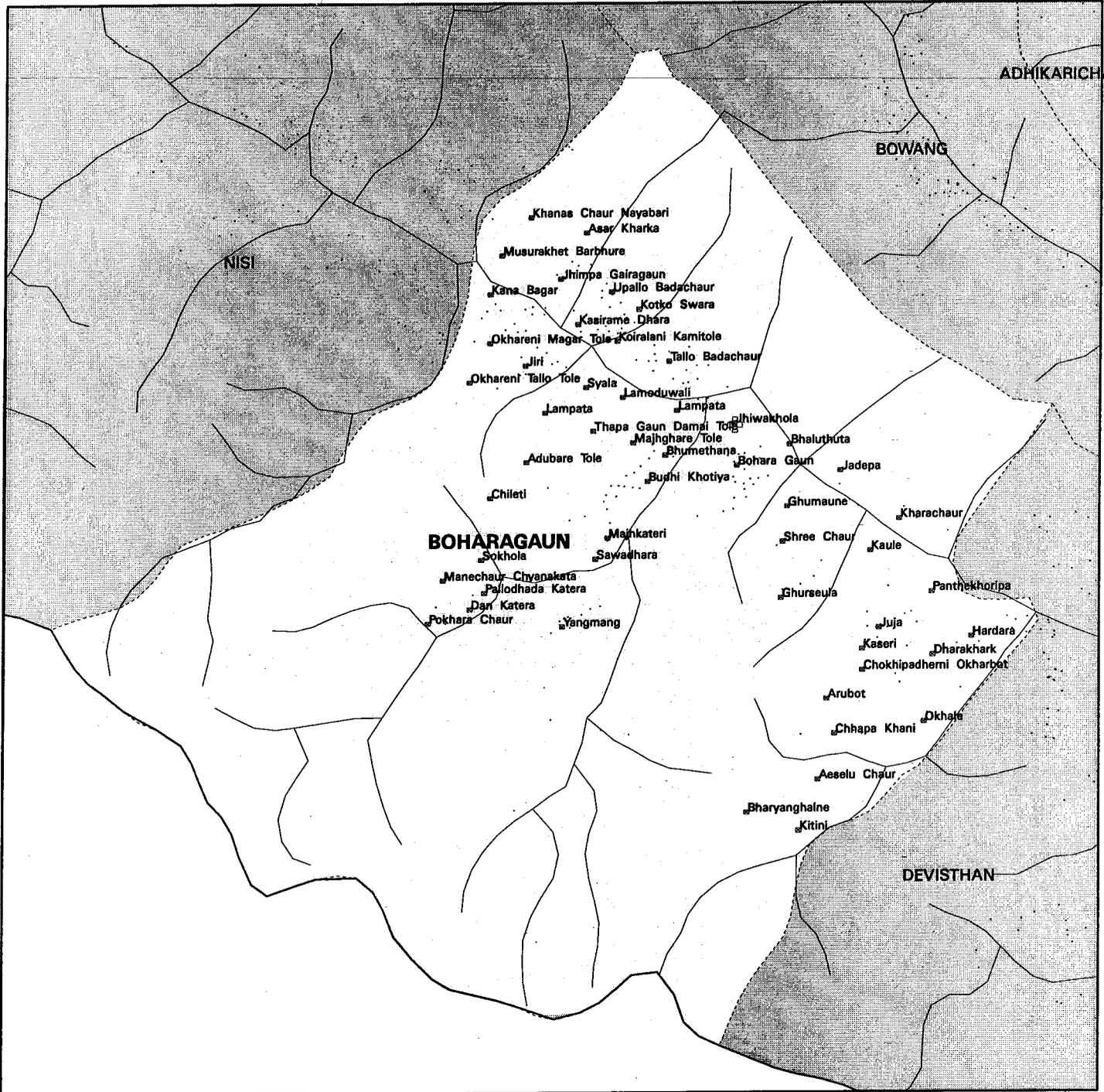


UTM PROJECTION, EVEREST SPHEROID.

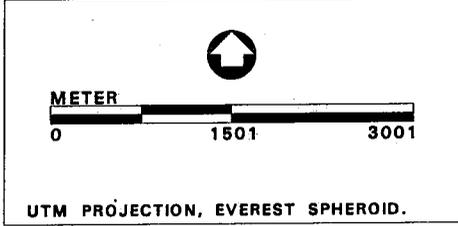
LEGEND

- SETTLEMENT
- VDC BOUNDARY
- RIVER/STREAM
- HOUSE CLUSTER
- CLINIC
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
BOHARAGAUN VDC



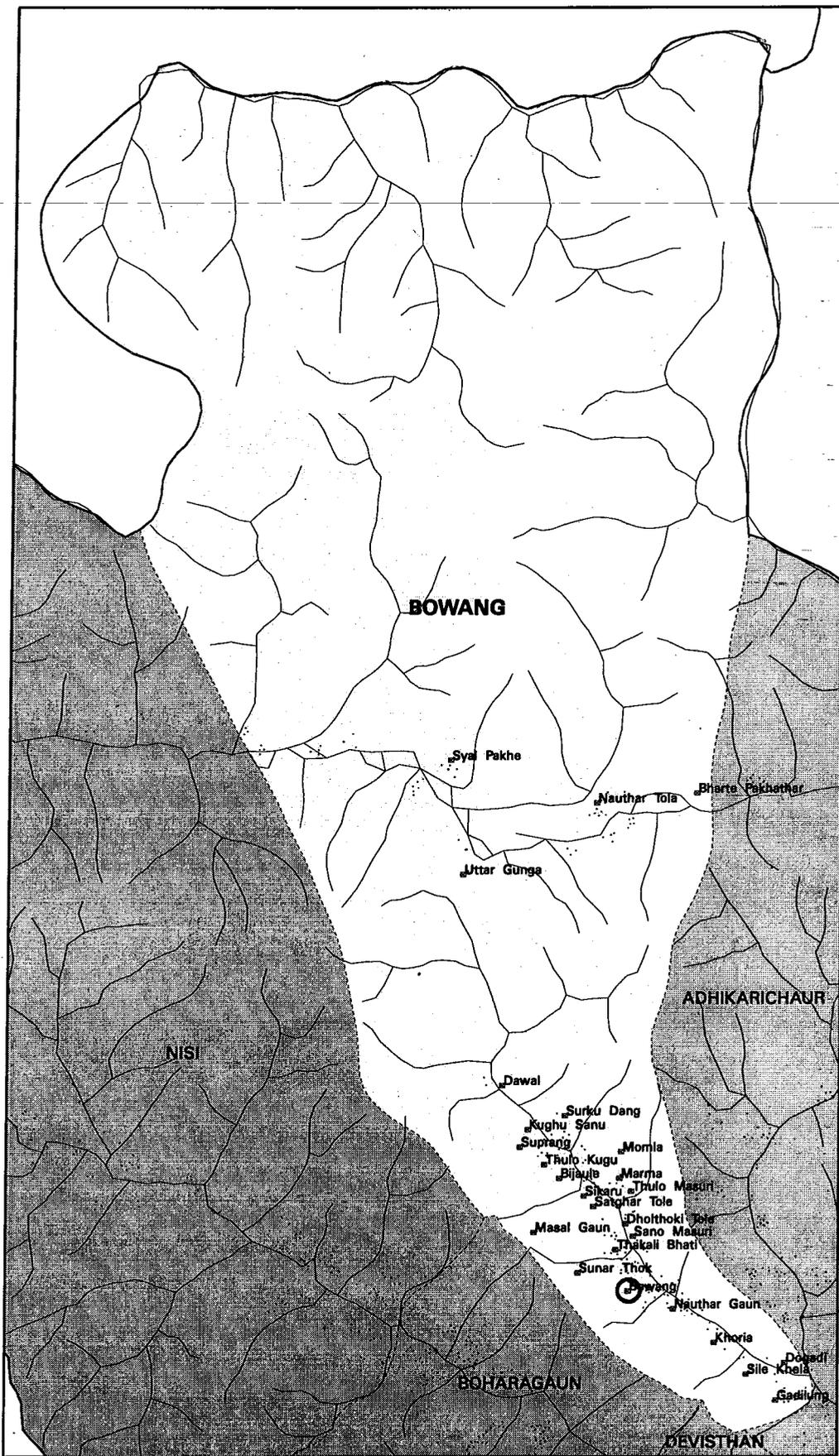
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



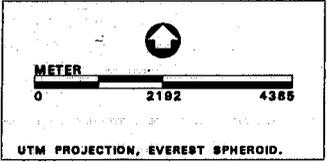
LEGEND

- SETTLEMENT
- - - VDC BOUNDARY
- RIVER/STREAM
- HOUSE CLUSTER
- + HEALTH CENTER
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
BOWANG VDC



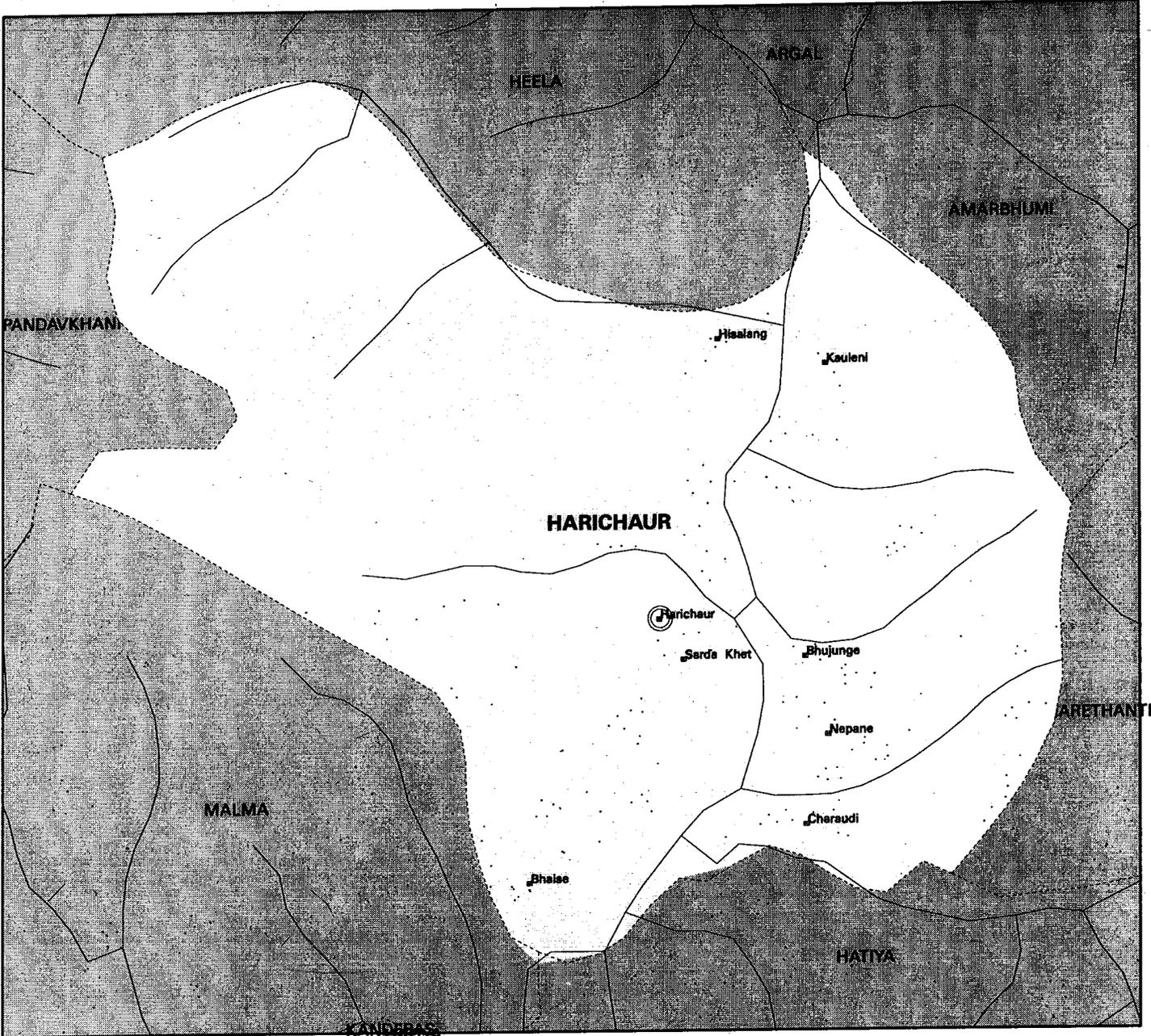
NPC GIS FACILITY
HMG/UNDP/NEP/85/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 281.



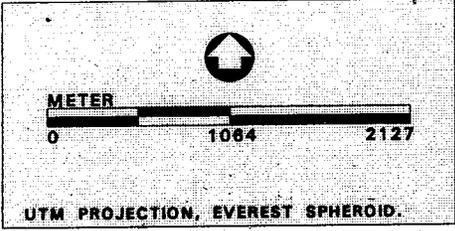
LEGEND

- SETTLEMENT
- - - VDC BOUNDARY
- ~ RIVER/STREAM
- HOUSE CLUSTER
- ROAD
- ⊕ SUB HEALTH POST
- DISTRICT BOUNDARY

**BAGLUNG DISTRICT
HARICHAUR VDC**



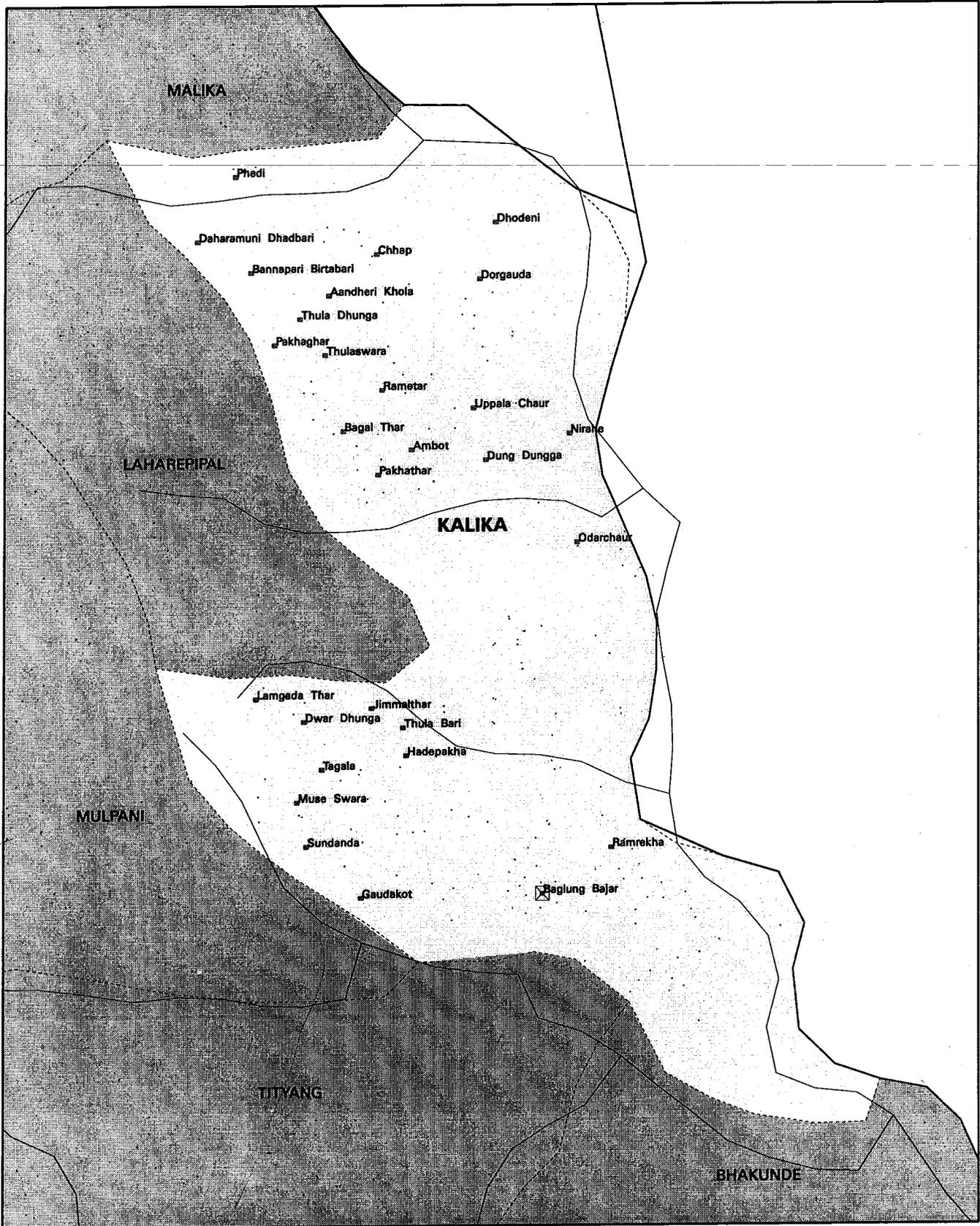
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



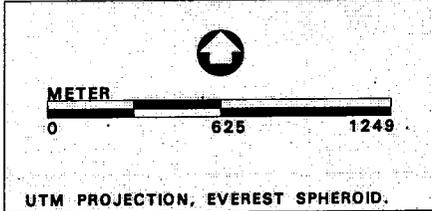
LEGEND

■	SETTLEMENT
- - -	VDC BOUNDARY
- - -	RIVER/STREAM
•••	HOUSE CLUSTER
○	HEALTH POST
—	DISTRICT BOUNDARY

BAGLUNG DISTRICT
KALIKA VDC



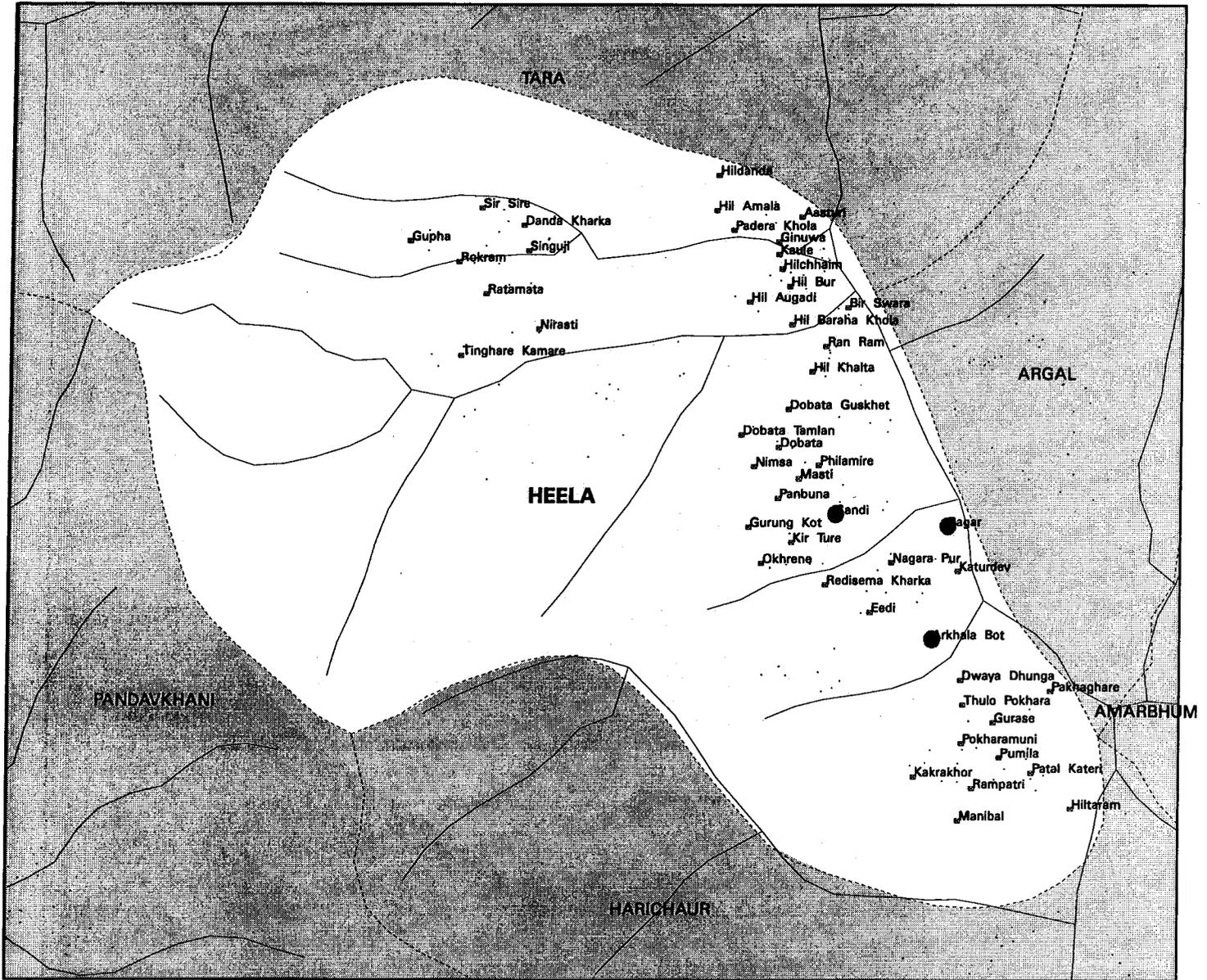
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



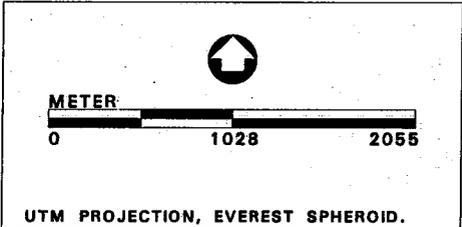
LEGEND

- SETTLEMENT
- - - VDC BOUNDARY
- RIVER/STREAM
- ⋯ HOUSE CLUSTER
- ⊠ HOSPITAL
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
HEELA VDC



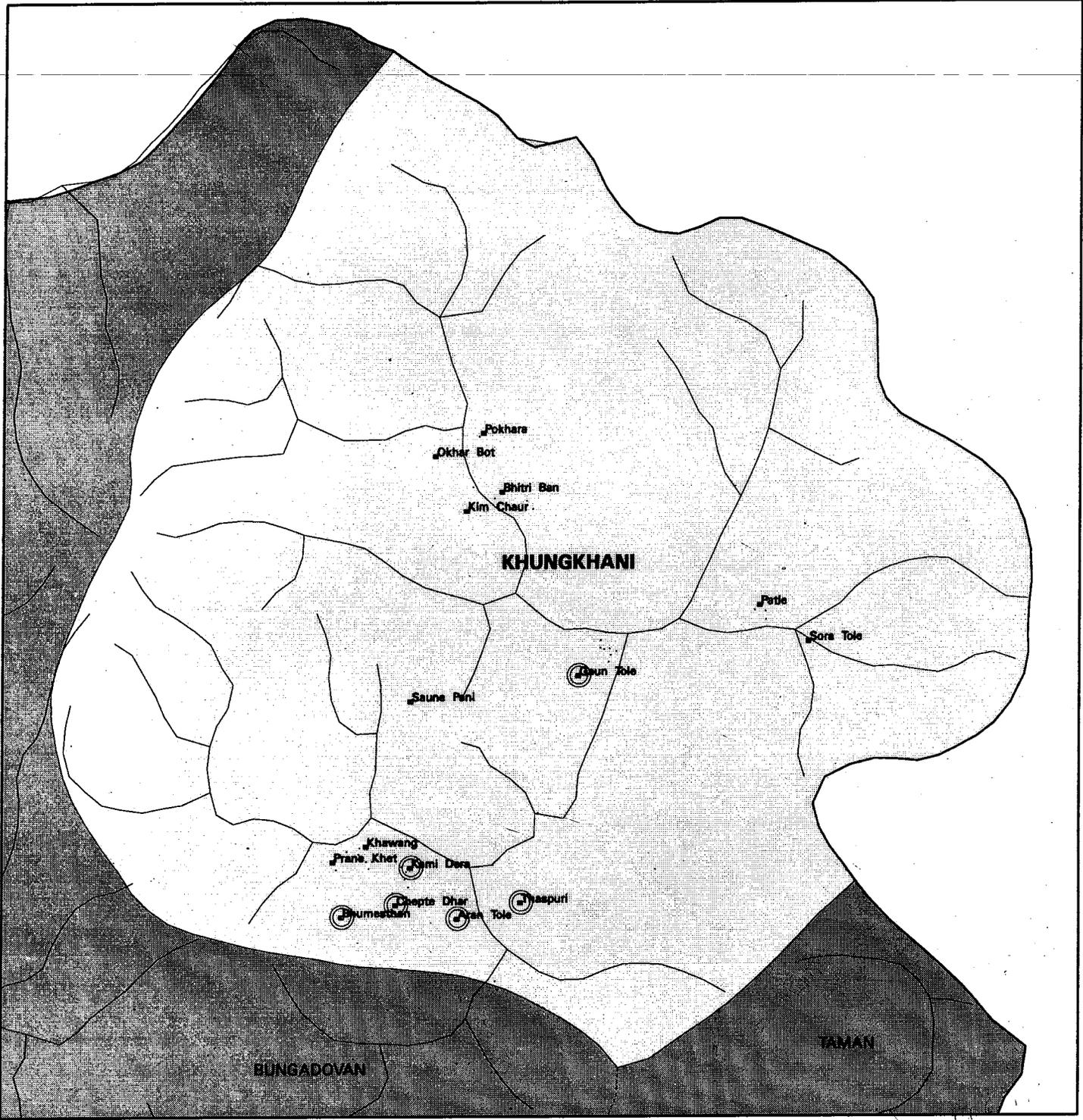
NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



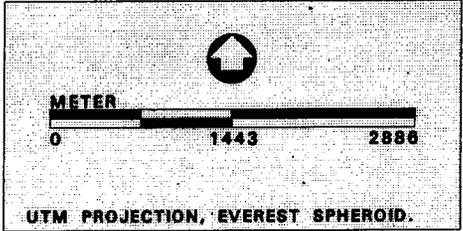
LEGEND

- SETTLEMENT
- - - VDC BOUNDARY
- RIVER/STREAM
- HOUSE CLUSTER
- ELECTRICITY AVAILABLE
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
KHUNGKHANI VDC



NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 226200, EXT 291.

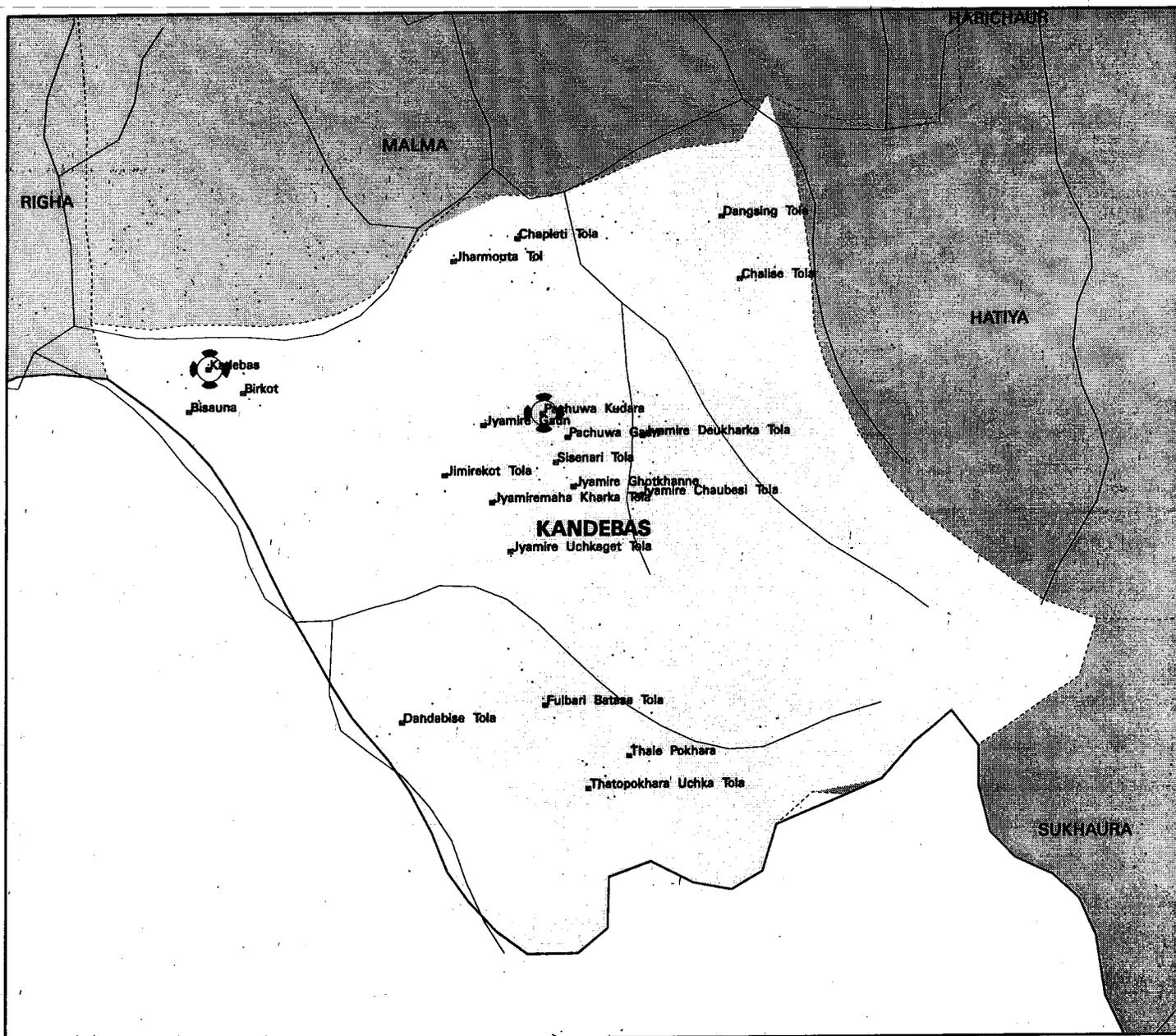


LEGEND

- SETTLEMENT
- VDC BOUNDARY
- RIVER/STREAM
- HOUSE CLUSTER
- PIPED WATER FACILITY
- DISTRICT BOUNDARY

BAGLUNG DISTRICT

KANDEBAS VDC



NPC GIS FACILITY
HMG/UNDP/NEP/95/008

NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.

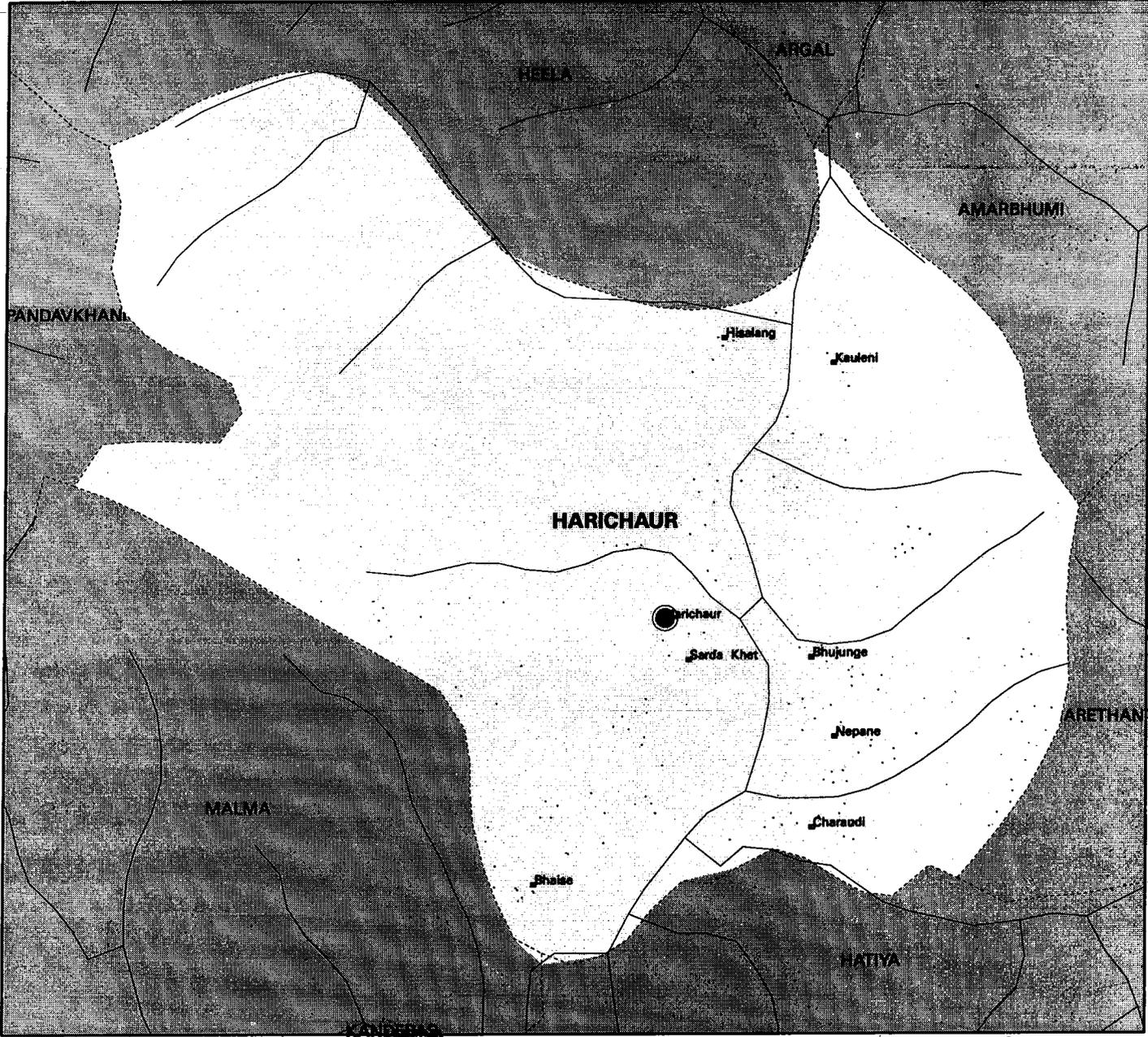


UTM PROJECTION, EVEREST SPHEROID.

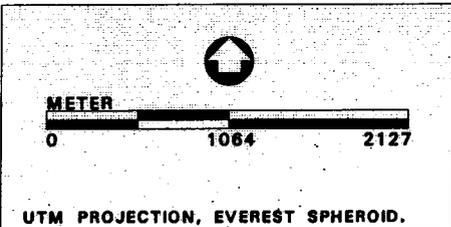
LEGEND

- SETTLEMENT
- VDC BOUNDARY
- RIVER/STREAM
- HOUSE CLUSTER
- ⊗ SMALL INDUSTRY
- DISTRICT BOUNDARY

BAGLUNG DISTRICT
HARICHAUR VDC



NPC GIS FACILITY
HMG/UNDP/NEP/95/008
NATIONAL PLANNING COMMISSION
SECRETARIAT, SINGHA DURBAR
KATHMANDU, TEL: 228200, EXT 291.



LEGEND

- SETTLEMENT
- - - - VDC BOUNDARY
- - - - RIVER/STREAM
- HOUSE CLUSTER
- POSTAL SERVICES
- DISTRICT BOUNDARY

ICIMOD LIBRARY
KATHMANDU
NEPAL