

# **Traditional Rural Architecture and Building Methods in the Hills of Central -Eastern Nepal**

A Report for Jiri Technical School on the Districts of  
Dolakha, Okhaldunga, Ramechhap, Sindhupalchowk and  
Solu Khumbu

« We have the atmosphere that you have in mind »

Detlev Kantowsky - Von Südasien lernen,  
Frankfurt 1985, p. 29

# Contents

## PART I: INTRODUCTION

1. ACKNOWLEDGEMENTS	page	6
1.1. Statement of the problem		7
1.2. Objectives		i
2. INTRODUCTION TO NEPAL		8
2.1. District profiles of target area		9
a) Dolakha		9
b) Okhaldunga		9
c) Ramechhap		10
d) Sindhupalchowk		10
e) Solu Khumbu		11
f) Political map of Nepal		11
2.2. An outline of history		12
2.3. Caste and tribe Order in target area		13
a) Aboriginal-group (native population)		15
b) Paharia-group (Mongoloid/Tibeto-Birman peoples)		15
c) Parbatiya-group (Europoid/Indoaryan peoples)		17
2.4. Housing and settlement in target area		17

## PART II; JIRI TECHNICAL SCHOOL

1. BACKGROUND	20
2. OBJECTIVES AND JUSTIFICATION	20
3. DESCRIPTION OF JIRI TECHNICAL SCHOOL	21
3.1. Brief description of Trades	21
a) Agriculture Trade	21
b) Construction Trade	22
c) Health Trade	22
4. SITUATION, INTERNAL STRUCTURES AND ORGANISATION	23
5. STRUCTURE OF THE EDUCATION SYSTEM IN NEPAL	25
6. DISPOSITION OF REPORT IN JIRI TECHNICAL SCHOOL	26

## PART III: ARCHITECTURE AND BUILDING CONSTRUCTION STUDIES

1. SYSTEMATICS IN ARCHITECTURE	page	28
1.1. Target and approach of case studies		29
1.2. Limitation of case study		30
1.3. Time planning and methods of case study		30
2. TRADITIONAL ARCHITECTURE IN NEPAL		33
2.1. Ritual and consecration in traditional building construction		34
3. BUILDING CASE STUDIES ACCORDING TO FORM AND APPEARANCE		38
3.1. Aboriginal people's houses		39
a) Newar houses		39
b) Rai houses		42
3.2. Mongoloid/Tibeto-Birmese people's houses		43
a) Sherpa houses		43
b) Tamang houses		49
c) Sunwar houses		54
d) Jirel houses		58
3.3. Europoid/Indoaryan people's houses		60
a) Brahmin houses		60
b) Chhetri houses		61
c) Khatri houses		65
d) Kami houses		67
e) Magi houses		70
4. BUILDING CASE STUDIES ACCORDING TO MATERIAL		72
4.1. Natural stones as construction material		72
a) Stone masonry		72
4.2. Common soil as local construction material		73
a) Common soil as mud mortar		75
b) Common soil as flooring material		75
c) Common soil as mud plastering		76
d) Colour and white washing		76
4.3. Timber and bamboo as construction material		77
a) Bamboo as construction material		77
b) Timber as construction material		80
c) Timber skeleton construction		82
d) Window and door constructions		88
4.4. Natural roofing materials		93
a) Thatching material		93
b) Slabstone roofs		94
c) Wood shingles roof		95

5. BUILDING CASE STUDIES ACCORDING TO ORGANISATION	page	96
5.1. Organisation of work and labour		96
5.2. Organisation of building process		97
5.3. Socio-economic aspects		98
6. SUMMARY		99

## PART IV: APPENDIX

1. CHRONOLOGISCHER REISEBERICHT	103
2. DOCUMENTATION	108
2.1. Abbreviations	108
2.2. Illustrations	108
3. SELECT BIBLIOGRAPHY	109
4. MAP OF CENTRAL-EASTERN NEPAL	112