UNIT WEIGHT OF MATERIALS

Government of Nepal
Ministry of Physical Planning and Works
Department of Urban Development and Building Construction
Babar Mahal, Kathmandu, NEPAL
Reprinted : 2064
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Preface

This Nepal Standard was prepared during 1993 as part of a project to prepare a National Building Code for Nepal.

In 1988 the Ministry of Housing and Physical Planning (MHPP), conscious of the growing needs of Nepal's urban and shelter sectors, requested technical assistance from the United Nations Development Programme and their executing agency, United Nations Centre for Human Settlements (UNCHS).

A programme of Policy and Technical Support was set up within the Ministry (UNDP Project NEP/88/054) and a number of activities have been undertaken within this framework.

The 1988 earthquake in Nepal, and the resulting deaths and damage to both housing and schools, again drew attention to the need for changes and improvement in current building construction and design methods.

Until now, Nepal has not had any regulations or documents of its own setting out either requirements or good practice for achieving satisfactory strength in buildings.

In late 1991 the MHPP and UNCHS requested proposals for the development of such regulations and documents from international organisations in response to terms of reference prepared by a panel of experts.

This document has been prepared by the subcontractor's team working within the Department of Building, the team including members of the Department and the MHPP. As part of the proposed management and implementation strategy, it has been prepared so as to conform with the general presentation requirements of the Nepal Bureau of Standards and Metrology.

The subproject has been undertaken under the aegis of an Advisory Panel to the MHPP.

The Advisory Panel consisted of:

Mr. UB Malla, Joint Secretary, MHPP  
Director General, Department of Building  
(Mr. LR Upadhyay)  
Chairman

Mr. AR Pant, Under Secretary, MHPP  
Director General, Department of Mines & Geology  
(Mr. PL Shrestha)  
Member

Director General, Nepal Bureau of Standards & Metrology  
(Mr. PB Manandhar)  
Member

Dean, Institute of Engineering, Tribhuvan University  
(Dr. SB Mathe)  
Member

Project Chief, Earthquake Areas Rehabilitation & Reconstruction Project  
President, Nepal Engineers Association  
Law Officer, MHPP (Mr. RB Dange)  
Member

Representative, Society of Consulting Architectural & Engineering Firms (SCAEF)  
Member
Representative, Society of Nepalese Architects (SONA)  
Deputy Director General, Department of Building,  
(Mr. JP Pradhan)  

The Subcontractor was BECA WORLEY INTERNATIONAL CONSULTANTS LTD. of New Zealand in conjunction with subconsultants who included:

Golder Associates Ltd., Canada  
SILT Consultants P. Ltd., Nepal  
TAEC Consult (P.) Ltd., Nepal  
Urban Regional Research, USA

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TABLE OF CONTENTS

Preface ............................................................................................................................................. 3

0 Foreword ..................................................................................................................................... 6

1. SCOPE ...................................................................................................................................... 1
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1. SCOPE

JUSTIFICATION FOR ADOPTING IS:875 (PART I)

During the desk study of codes from various countries (Uniform Building Code, Indonesian Earthquake Code, National Building Code of Indian and Yugoslavian Code, New Zealand Code) it was found that unit weight of very common types of materials were maintained the same in each country. For country-specific materials, their variation in unit-weight with respect to those of similar materials in other countries was also found to be minimal. Because of the unavailability of specific unit weights of Nepalese materials for various uses, and because of the similarity of materials and their uses in Nepal and India, Indian Standard IS: 875 (Part I) -1987 has been recommended for adoption in Nepal.