MEDICAL STORES DATA BASE

BY

ASHISH KUMAR GUPTA

Mathematics Department

Submitted as the report for

Major Project for the

Partial fulfilment of M.Tech,

in Computer Science, to the

DEPARTMENT OF MATHEMATICS

INDIAN INSTITUTE OF TECHNOLOGY

NEW DELHI

JUNE 1982

C E R T I F I C A T E

This is to certify that the dissertation entitled "Medical Stores Data Base", is being submitted by ASHISH KUMAR GUPTA, to the Indian Institute of Technology, Delhi, as a report for the Major Project, for the partial fulfilment of M.Tech. in Computer Science. This report satisfies all the essential requirements.

Dr. S.K. GUPTA
COMPUTER CENTRE
I.I.T. DELHI.

A C K N O W L E D G E M E N T

I feel great pleasure in expressing my thanks to Dr. S.K. Gupta (Computer Centre, I.I.T. Delhi), Major A.C. Verma (Army Head Quarters, EDP Centre, Signals Enclave) and Dr. N.G. Rao (Lt. Col.) of Bio medical Centre I.I.T. Delhi for assigning me this project.

I am also greatful to Prof. H.L. Manocha, Head of the Mathematics Department I.I.T. Delhi for allowing me to go through with the project.

I am very thankful to Dr. S.K. Gupta for his guidance on the database aspects and Dr. (Lt. Col.) N.G. Rao for his guidance on the Medical aspects of the project.

I am very much grateful to Maj. A.C. Verma, without whose help and guidance, I would not have been able to complete the project.

I would also like to thank all others at I.I.T. Delhi Signals Enclave (AHQ) and AFMSD (Delhi Cantt.) who helped me during the life of my project.

Finally, I would like to thank my friend Mr. Inder Sain Abuja for typing my dissertation.

June 1982.

ASHISH KUMAR GUPTA

MEDICAL STORES DATA BASE

ABSTRACT

The activities in an Armed Forces Medical Stores Depot are so numerous and bulky that they consume many thousands of man-hours every month and they keep all the key personnel preoccupied throughout the year with the day to day work of just maintaining the uptodate records. As a result, the scope for creative thinking and a better meticulous planning is very much restricted. The accuracy and the promptness with which an information is obtained is also very much restricted.

Automation of the records in the depot is thus a necessity to increase the efficiency, accuracy and capacity to handle more voluminous data and activities.

A sample data base using the IDMS package of ICL has been designed and implemented. The model has also been tested with the test data.

The data model so designed, is able to generate time scheduled reports and is able to answer the queries needed by the management. Although the implemented model suffers from certain limitations but provision has been made to extend the model to incorporate these in the final model.

CONTENTS

APPENDICES