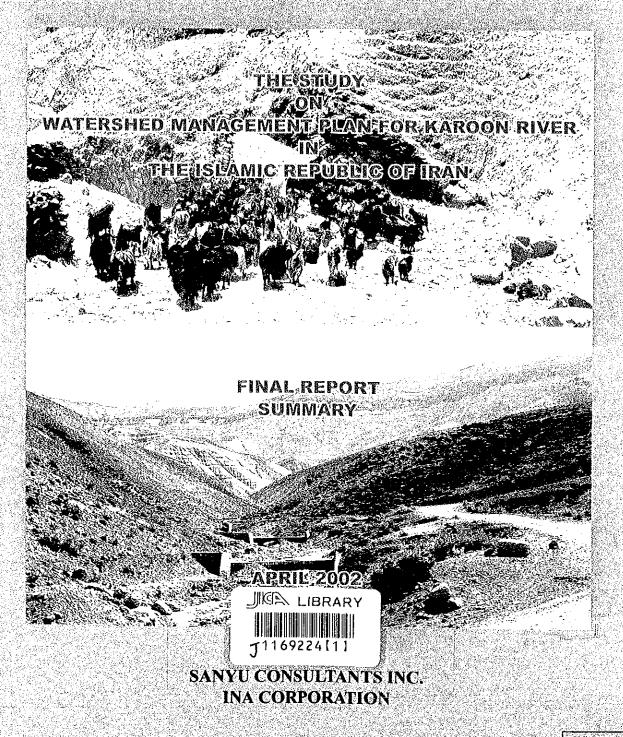
FINAL REPORT



SSS JR 02-54 JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
WATERSHED MANAGEMENT DEPUTY (WMD)
MINISTRY OF JIHAD AGRICULTURE
ISLAMIC REPUBLIC OF IRAN

THE STUDY
ON
WATERSHED MANAGEMENT PLAN
FOR
KAROON RIVER
IN
THE ISLAMIC REPUBLIC OF IRAN

FINAL REPORT (SUMMARY)

**APRIL 2002** 

SANYU CONSULTANTS INC INA CORPORATION

## **CURRENCY EQUIVALENTS**

(As of July 2001)

Currency Unit = Iranian Rials (Rls)

US\$1.00 = 8,000 Rls

US\$ 1.00 = 122.00 Japanese Yen

## WEIGHT AND MEASURES

Metric System



## **PREFACE**

In response to a request from the Government of Islamic Republic of Iran, the Government of Japan decided to conduct a development study on Watershed Management Plan for Karoon River in Islamic Republic of Iran and entrusted the study to the Japan International Cooperation Agency (IICA).

JICA selected and dispatched a study team headed by Mr. Hironori Takahashi of SANYU CONSULTANTS INC. and INA CORPORATION to Iran, three times between February 2000 and April 2002. In addition, JICA set up an advisory committee headed by Masayuki Watanabe, Senior Advisor of JICA between February 2000 and April 2002, which examined the study from specialist and technical points of view.

The team held discussions with the officials concerned of the Government of Iran, and conducted field surveys at the study area. Upon returning to Japan, the team conducted further studies and prepared this final report.

I hope that this report will contribute to the promotion of the project and to the enhancement of friendly relationship between our two countries.

Finally, I wish to express my sincere appreciation to the officials concerned of the Government of Iran for their close cooperation extended to the Team.

April 2002

Takao Kawakami

President

Japan International Cooperation Agency

Mr. Takao Kawakami President Japan International Cooperation Agency Tokyo, Japan

## Letter of Transmittal

Dear Sir

We are pleased to submit herewith the Final Report for the Study on Watershed Management Plan for Karoon River in the Islamic Republic of Iran, upon the completion of the study works. The Report, which describes sub-basin inventory and master plan of five selected areas in the field of natural disaster prevention, soil and vegetation conservation, agriculture and rural development, is compiled in reflecting the advices and suggestions of the authorities concerned of the Government of Japan and your good agency as well as the comments on Draft Final Report made by the Watershed Management Deputy of the Ministry of Jihad Agriculture

The upstream basin of the Karoon River occupies the highly elevated Zagros mountain ranges where floods, debris flows and landslides are prevailing because of the land degradation and subsequent soil erosion. In order to reduce the damage of the above-mentioned disasters, the Government of Iran has made efforts of promoting watershed management in the area.

The Study consists of two phases; Phase I inventory study and Phase II master plan study. The whole study area covers the upper Karoon watershed of 26,8000 km² area and Phase I Study is basic study for preparation of inventory on physical and non-physical features of 455 divided sub-basins, and selection of the areas for master plan study. Phase II Study is formulation of master plan for the integrated watershed management for the selected five sub-basin areas. The project purposes of the master plan include 1) mitigation of flood, debris flow and landslide damages, 2) control of soil erosion and conservation of water, 3) restoration and improvement of rangeland vegetation, 4) improvement of living standard, 5) improvement of agriculture product marketing and agriculture extension. In view of such series of envisaged advantages of the master plan, an early implementation thereof is sincerely expected.

Finally, we take this opportunity to express our heartfelt gratitude to your Agency and other authorities concerned of the Government of Japan as well as WMD and other agencies of the Government of Iran for close cooperation and assistance extended to Study Team during the course of the investigations and studies.

Respectfully yours,

Hironori Takahashi Leader of Study Team

