

EKLER

### List of the JICA Study Team Members

Position	Name
Team Leader	Yutaka NOZAKI
Watershed Management/ Vegetation/ Afforestation	Hisanori TASHIMA
Soil Conservation	Peter Raglan STEVENS
Agriculture/ Small-scale Irrigation	Tetsuo MIZOBE
Livestock/ Pastureland Management	Hasan GENCAGA
Socio-economy/ Community Development	Takashi KIMIJIMA
Organization/ Extension	Masayuki TAKAZAWA
GIS/ Remote Sensing	Syunsuke TOMIMURA
Project Evaluation/ Monitoring	Yoshiteru SUNAGO
Environmental Assessment	Naohito WATANABE
Coordinator	Kenjiro SUZUKI

### List of Turkish MEF counterpart personnel

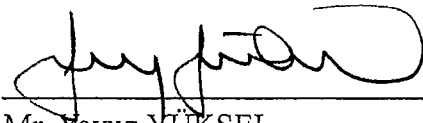
Institution	Name	Position
Ministry of Environment and Forestry	Dr.Hasan Z. Sarıkaya Dr. Nuri Uslu Mr.Yavuz Yüksel Dr.Erkan Ispirli  Dr. Ahmet Şenyaz	Undersecretary Deputy Undersecretary Former Deputy Undersecretary Former Head of Foreign Relations and EU Department Head of Research and Development
General Directorate of Reforestation and Erosion Control	Mr. Mustafa Yüksek Mr.Hanifi Avcı Mr. İsmail Küçükkaya  Mr. İsmail Belen Mr. Yılmaz Altaş  Mr. Tuncay Öztekin  Mr. Halit Babalık  Mr. Ünal Özdoğru  Mr. Erdogan Ozevren	Director General of AGM Assistant Director General of AGM Former Assistant Director General of AGM Head of Planning Department Head of Erosion Control and Range Rehabilitation Department Former Head of Erosion Control and Range Rehabilitation Department Former Division Director Of Foreign Financed Projects Division Director of Range Rehabilitation Division Director of Erosion Control
General Directory Of Forestry	Mr. Ali Temerit  Mr. Atilla Kurmuş	Division Director Of Foreign Financed Projects Division Director Of Silviculture Department
General Directory of Forest Village Relations	Mr. Mustafa Bayrak	Division Director
General Directory of Nature Conservation and National Parks	Mr. Hüseyin Aytaç Ms Suade Arançlı	Division Director Division Director
Erzurum	Mr.Ekrem Taftali  Mr.Gürel Şirin  Mr.Abdulkadir Eroğlu	Former ministreal Regional Directory of Erzurum Regional Directory of Forestry, Erzurum Deputy regional Director

	<p>Mr. Baki Ekinci  Mr. Faruk K�ksoy  Mr.Muamer Toraman  Mr.Selami �ks�z  Mr.G�ksel �uen  Mr.Mehmet Bozgan  Mr.Mehmet G�ven  Mr.Tekin MemiŐođlu  Mr. N. Tuncay Kutay  Mr.Mustafa Őent�rk  Mr. Temel Ustaoglu  Mr.G�khan Yildirimli</p>	<p>Director of Planing ,OGM  Chief Engineeer Of AGM  Chief Engineer of National Park  Chief Engineer of ORK�Y  Nursery Director  Director of Cadastre,OGM  Director of Forest Research  Engineer of AGM  Engineer of AGM  Engineer of Nursery  Directory of Forestry, Oltu  Engineer of National Park</p>
Artvin	<p>Mr. İsmail H. Albayrak  Mr.Ethem Boz  Mr. Ersin DurmuŐ</p> <p>Mr. Mustafa Temel  Mr. Őevket Alkan  Mr. Ayhan G�nd�z  Mr. Cemal Aydın  Mr. Muhammer Kara  Mr.Turgut Demir  Ms.Leyla �zkan  Mr. Murat Sezer</p>	<p>Assistant Regional Director,OGM  AGM . Chief Engineer  Deputy Chief Engineer Of National  Parks  Engineer of ORK�Y  Former Division Director of OGM  Chief Engineer of ORK�Y  Directory of Forestry, Yusufeli  Engineer of AGM, Yusufeli  Engineer of OGM, TepebaŐı  Engineer of OGM , Yayla  Engineer of OGM, ŐavŐat</p>
Bayburt	<p>Mr. Orhan Ően  Mr. Alparslan Katircı</p>	<p>Engineer of OGM, Bayburt  Nursery Director, AGM, Bayburt</p>

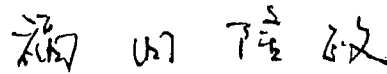
SCOPE OF WORK  
FOR  
THE MASTER PLAN STUDY  
ON  
PARTICIPATORY WATERSHED REHABILITATION  
IN  
CORUH RIVER  
IN  
THE REPUBLIC OF TURKEY

AGREED UPON BETWEEN  
MINISTRY OF FORESTRY  
OF  
THE REPUBLIC OF TURKEY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

ANKARA, APRIL 19, 2002



Mr. Yavuz YÜKSEL  
Deputy Undersecretary  
Ministry of Forestry,  
Republic of Turkey



Mr. Takamasa FUKUDA  
Team Leader  
Preparatory Study Team  
Japan International Cooperation Agency,  
Japan

## I. INTRODUCTION

In response to the request of the Government of the Republic of Turkey, the Government of Japan has decided to conduct the Master Plan Study on Participatory Watershed Rehabilitation in Coruh river in the Republic of Turkey (hereinafter referred to as "the Study") together with the Government of the Republic of Turkey in accordance with the relevant laws and regulations in force in Japan

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programs of the Government of Japan, will undertake the Study in close cooperation with the authorities concerned of the Government of Turkey.

The present document sets forth the Scope of Work with regard to the Study.

## II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. To formulate Master Plan on Participatory Watershed Rehabilitation in Coruh river in the Republic of Turkey in order to contribute to natural resources management, erosion control and improvement of livelihood of local people.
2. To transfer relevant technology to the counterpart personnel through on-the-job training in the course of the Study.

## III. OUTLINE OF THE STUDY

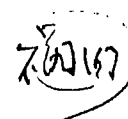
### 1. Study Area

The Study area shall cover Coruh river watershed with a total area of approximately 1,170,000 hectares as shown in Annex 1.

### 2. Scope of the Study

In order to achieve the above objectives, the Study shall cover the following items;

- (1) To prepare a land-use and vegetation map of the study area with a scale of 1 to 100,000, based on the satellite data analysis and the field survey.
- (2) To collect and review the existing data and information relevant to the Study on the following items;
  - 1) Natural conditions
  - 2) Socio-economic conditions/gender
  - 3) Forestry conditions
  - 4) Agriculture and livestock conditions
  - 5) Agricultural and social infrastructure
  - 6) Activities of people's and public organizations and NGO's
  - 7) Existing development and conservation projects and programs



- (3) To prepare an inventory of forest villages.
- (4) To identify major problems and development potential of watershed conservation.
- (5) To formulate the master plan for integrated watershed rehabilitation for the Study area which includes the followings;
  - 1) Land-use
  - 2) Erosion control
  - 3) Reforestation / Regreening and improvement of degraded forests
  - 4) Rangeland management
  - 5) Forest pests and disease control
  - 6) Agriculture, livestock and agro-forestry
  - 7) Wildlife management and biodiversity
  - 8) Poverty alleviation (creation of income generating activities and employment opportunities including utilization of non-wood forest products)
  - 9) Strengthening the institutional capacity
  - 10) Participatory approach
  - 11) Implementation plan and preliminary design of small scale structures
  - 12) Monitoring and evaluation system
  - 13) Estimation of project cost and benefit
  - 14) Environmental assessment
- (6) To formulate GIS database which is consolidated with information acquired from land use/ vegetation map, an inventory of forest villages and micro-catchment rehabilitation plan.
- (7) To evaluate and assess the social and economic value of the participatory watershed rehabilitation plan.

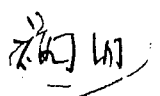
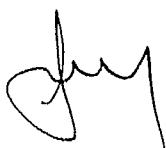
#### **IV. STUDY SCHEDULE**

The Study will be carried out during a period of fifteen (15) months approximately, in accordance with the tentative work schedule attached as Annex 2).

#### **V. REPORTS**

JICA shall prepare and submit the following reports in English to the Government of the Republic of Turkey :

1. Inception Report  
Thirty (30) copies and a set of CD-ROM at the beginning of the study in Turkey.
2. Interim Report  
Thirty (30) copies and a set of CD-ROM at the middle of the study in Turkey.
3. Draft Final Report  
Thirty (30) copies and a set of CD-ROM at the end of study in Turkey. The government of the Republic of Turkey will provide JICA with its comments on Draft Final Report within one (1) month after receipt of the Draft Final Report.



#### 4. Final Report

Fifty (50) copies and a set of CD-ROM within two (2) months after receipt of the comments on the Draft Final Report from the Government of the Republic of Turkey.

### VI. UNDERTAKING OF THE MINISTRY OF FORESTRY

1. To facilitate smooth conduct of the Study, the Ministry of Forestry shall take all necessary measures, including the following, in accordance with relevant laws and regulations in force in the Republic of Turkey:

(1) to secure the safety of the Japanese study team (hereinafter referred to as "the Team");

(2) to permit the members of the Team to enter, leave and sojourn in the Republic of Turkey for the duration of their assignment therein, and offer the convenience for procedures of foreign registration requirements;

(3) to undertake the payment of taxes, customs duties and other charges, if any, to be levied against the members of the Team, imposed on equipment, machinery and other materials which are brought into and out of the Republic of Turkey for the conduct of the Study;

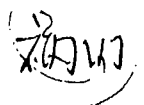
(4) to undertake the payment of income taxes and charges of any kind, if any, to be levied against the members of the Team, imposed on or in connection with any emoluments or allowance paid to the members of the Team for their services in connection with the implementation of the Study;

(5) to provide necessary facilities to the Team for the remittance as well as utilization of the fund introduced into the Republic of Turkey from Japan in connection with the implementation of the Study;

(6) to make all necessary arrangements for permission for entry into all areas, excluding military restricted areas, for the implementation of the Study;

(7) to make all necessary arrangements for permission, which will be granted by relevant authorities of the Ministry of Forestry for the Team, for taking all data and documents (including maps and photographs) related to the Study out of the Republic of Turkey to Japan; and

(8) to provide medical services as needed, expenses of which will be chargeable on the members of the Team.



2. The Ministry of Forestry shall bear claims, if any arise against the members of the Team resulting from, occurring in the course of, or otherwise connected with the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the members of the Team.
3. The Ministry of Forestry shall act as a counterpart agency to the Team and also a coordinating body in relations with other governmental and non-governmental organizations concerned for in the Republic of Turkey for the smooth implementation of the Study.
4. The Ministry of Forestry shall, at its own expense, provide the Team with the followings, in cooperation with other organizations concerned in the Republic of Turkey:
  - (1) available data and information related to the Study,
  - (2) counterpart personnel necessary for the Study,
  - (3) suitable office space with necessary equipment in Ankara, Artvin, Bayburt and Erzurum
  - (4) credentials or identification cards.

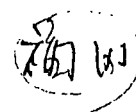
## VII. UNDERTAKING OF JICA

For the implementation of the Study, JICA shall take the following measures:

- (1) to dispatch, at its own expense, the Team to the Republic of Turkey, and
- (2) to pursue technology transfer to the Turkish counterpart personnel in the course of the Study.

## VIII. CONSULTATION

The Ministry of Forestry and JICA shall consult with each other in respect of any matter that may arise from or in connection with the Study.





## TENTATIVE SCHEDULE

Months	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
The Study in Japan	<input type="checkbox"/>				<input type="checkbox"/>							<input type="checkbox"/>			
The Study in Turkey	<input checked="" type="checkbox"/>							<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	
Reports	<input type="checkbox"/> △ Ic/R							△ It/R						△ Df/R	◎ F/R

(Remarks)

- Ic/R        Inception Report
- It/R        Interim Report
- Df/R        Draft Final Report
- ◎           Comments on Df/R by the Government of Turkey
- F/R         Final Report

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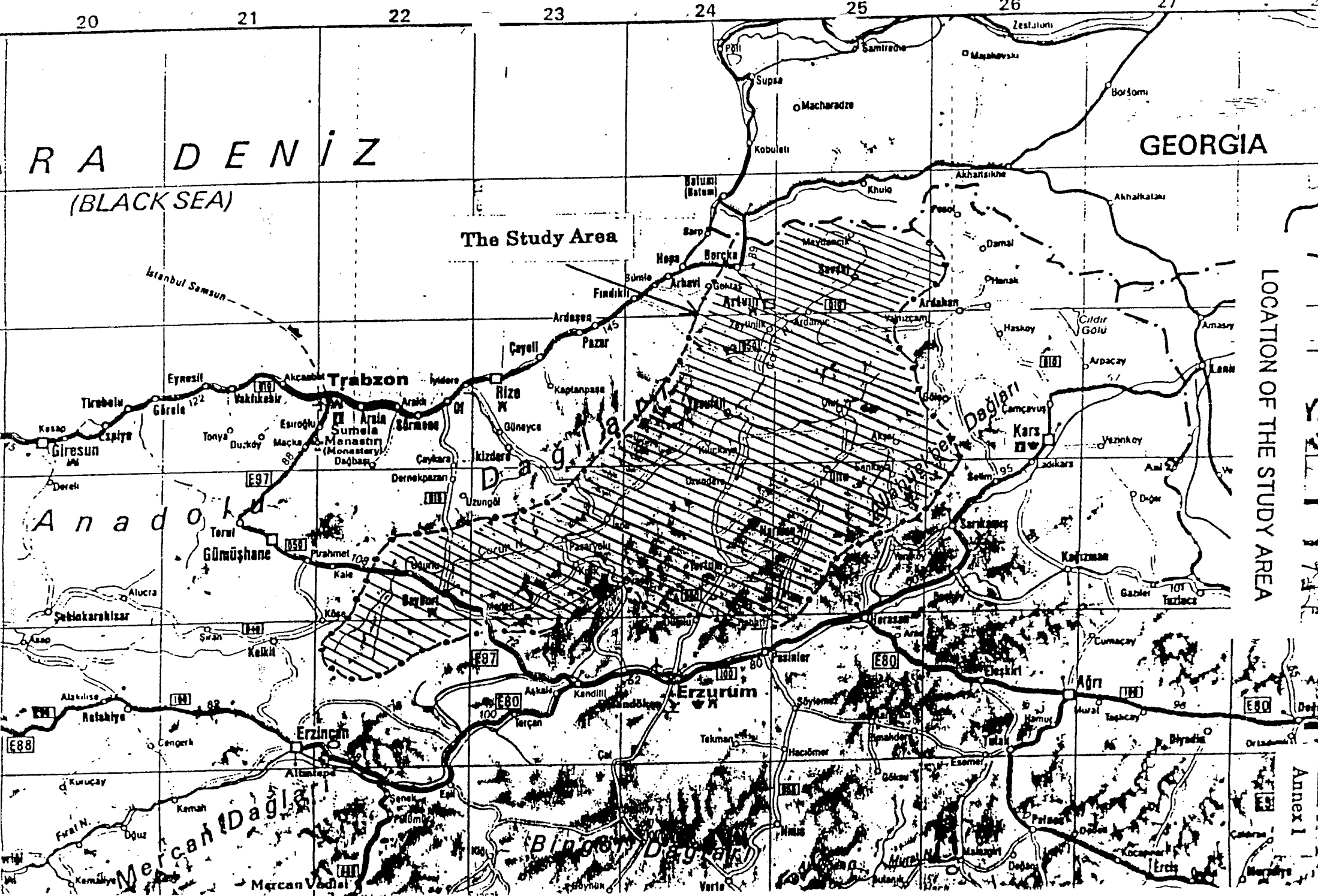
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R A D E N İ Z  
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GEORGIA

The Study Area

LOCATION OF THE STUDY AREA



Annex I

**MINUTES OF MEETING**  
**ON**  
**SCOPE OF WORK FOR**  
**THE MASTER PLAN STUDY**  
**ON**  
**PARTICIPATORY WATERSHED REHABILITATION**  
**IN CORUH RIVER**  
**IN**  
**THE REPUBLIC OF TURKEY**

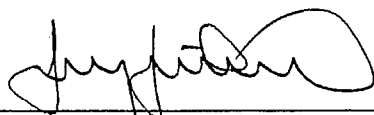
The Preparatory Study Team (hereinafter referred to as “the Team”) organized by the Japan International Cooperation Agency (hereinafter referred to as “JICA”) headed by Mr. Takamasa Fukuda visited the Republic of Turkey from April 8 to April 20, 2002 for the purpose of discussing and confirming the Scope of Work for the Master Plan Study on Participatory Watershed Rehabilitation in Coruh River in the Republic of Turkey (hereinafter referred to as “the Study”).

The Team had a series of discussions with officials from the Ministry of Forestry and other relevant organizations on the Scope of Work for the Study. The list of participants in the meetings is attached as Annex I.

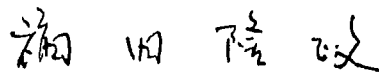
Based on the discussions, Ministry of Forestry and the Team agreed upon the Scope of Work for the Study.

The main issues discussed by both sides in relation to the Scope of Work for the Study are shown in the document attached hereto.

ANKARA, APRIL 19, 2002



Mr. Yavuz YUKSEL  
Deputy Undersecretary  
Ministry of Forestry,  
Republic of Turkey



Mr. Takamasa FUKUDA  
Team Leader  
Preparatory Study Team  
Japan International Cooperation Agency,  
Japan

Attached Document

## 1. STUDY AREA

Both sides agreed to choose Coruh river watershed covered with three (3) provinces (Artvin, Bayburt and Erzurum) as the Study Area based on the following reasons.

- 1) Three multipurpose dams which are currently under construction urgently require watershed rehabilitation in Coruh river watershed so that siltation to dam lakes will be limited.
- 2) Coruh river watershed is one of the poorest and most severely degraded regions due to it's characteristic topography and harsh climate.
- 3) Avoiding unsustainable natural resource exploitation by poor forest villagers whose existence heavily rely on forest and agricultural resources is a highly prioritized policy of the Turkish government.

## 2. STUDY PROCESS

The Study will be conducted as the following process by Japanese master plan study team (hereinafter referred to as "Japanese Study Team") with close collaboration with Turkish side.

The First Step; Basic Survey

Natural conditions, socio-economic condition/gender, forest conditions, agriculture and livestock , inventory of forest villages\*, etc.

The Second Step; Zoning of the Study Area

Zoning (middle size watersheds) based on socio-economic conditions and watershed analysis (flood, soil erosion, land slide, etc.)

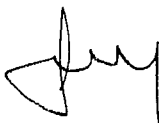
The Third Step; Preparation of Micro-catchment Rehabilitation Plan

Preparation of integrated watershed rehabilitation plan in several micro-catchments selected based on criteria to be given in the 2<sup>nd</sup> step.

The Forth Step; Formulation of Master Plan

Formulation of Master Plan based on the micro-catchment rehabilitation plans prepared in the 3<sup>rd</sup> step.

\*: Inventory of forest villages will be made based on the available data and information of forest villages in the Study area in the 1<sup>st</sup> step and a detailed inventory on the forest villages within the selected micro-catchments will be made to assess the environmental and socio- economic conditions in the 3<sup>rd</sup> step.



### **3. COUNTERPART PERSONNEL**

Both sides confirmed the necessity of expertise in the following areas to conduct the Study;

- a) watershed management, b) flora/ silviculture, c) soil conservation, d) agriculture/ small scale irrigation , e) livestock/ rangeland management, f) socio-economic/ rural development, g) GIS/remote sensing, h) institutional development/ extension, i) project evaluation/ monitoring, j) environmental assessment

The Turkish side shall assign necessary number of qualified counterpart personnel in Ankara, Artvin, Bayburt and Erzurum. Turkish side shall provide a necessary budgetary measure such as a travel allowance for them to contribute to the Study.

### **4. ESTABLISHMENT OF STEERING COMMITTEE**

Both sides agreed to establish a Steering Committee for the smooth conduction of the Study. The steering committee is to be a body comprising relevant headquarters to secure internal coordination within the Ministry of Forestry and each General Directorate in order to facilitate necessary activities required by Japanese Study Team. The Japanese Study Team will explain the reports to the steering committee.

### **5. DATA AND INFORMATION**

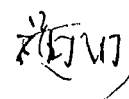
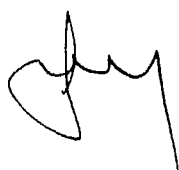
Both sides confirmed that Turkish side will provide the Study Team with data and information related to the Study that may be taken from Turkey to Japan under the conditions of the undertaking described in the Scope of Work signed by both sides.

### **6. OFFICE ACCOMMODATION**

Ministry of Forestry will provide office space suitable enough to accommodate members of the Japanese Study Team in Ankara, Artvin, Bayburt and Erzurum during the term of the study in Turkey.

### **7. STATUS OF THE FINAL REPORT**

Both sides agreed that the Final Report would be available to the public.



## **8. TRAINING OF COUNTERPART PERSONNEL IN JAPAN**

Ministry of Forestry has shown their intention to submit official request to send their counterpart personnel for training in Japan via diplomatic channel.

The Team has identified the importance of the Turkish counterpart personnel training in Japan to achieve an effective technology transfer.

## **9. TRANSPORTATION OF THE STUDY TEAM**

Transportation for Japanese Study Team during the term of the study in Turkey will be prepared by JICA.

## **10. REPORTS**

Main text of the Draft Final Report and Final Report will be written in both English and Turkish. Costs for translation from English to Turkish, printing and binding will be born by JICA.



## ANNEX I

### Turkish Side

#### Ministry of Forestry (MOF)

Mr. Harun Ozturk	Undersecretary
Mr. Yavuz Yuksel	Deputy Undersecretary
Mr. Dursun Çetin	Chairman of Research, Planning and Coordination Board
Dr. Erkan Ispirli	Head of Foreign Relations and EU Department

#### General Directorate of Reforestation and Erosion Control, MOF

Mr. Erdogan Özer	Director General,
Mr. Ali Cengiz Keskin	Deputy Director General
Mr. Ismail Kütükkaya	Deputy Director General
Mr. Ersen Tipi	Head of Planning and Coordination Department
Mr. Halit Babalik	Division Director of Foreign Financed Projects
Mr. Yilmaz Altas	Division Director of Erosion Control

#### General Directorate of Forestry, MOF

Mr. Atilla Kurmus	Director of Forest Maintenance and Energy Forests, Silviculture Department
Mr. Ali Temerit	Division Director of Foreign Financed Projects, Research, Planning and Coordination Dept.

#### General Directorate of Forest Village Relations, MOF

Mr. Necati Uyar	Director General,
Mr. Cahit Nasirli	Deputy Director General
Mr. Muhammet Bayburtlu	Head of Planning & Coordination Department
Mr. T. Mustafa Bayrak	Division Director of Coordination and Evaluation

#### General Directorate of National Parks, Game and Wildlife, MOF

Mr. Hüseyin Aytaç	Division Director of National Parks
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#### General Directorate of Reforestation and Erosion Control, Artvin Province, MOF

Mr. Gençali Özden	Deputy Regional Director in Trabzon
Mr. Yedigir Aydin	Division Director of Reforestation in Trabzon
Mr. Ethem Boz	Chief Engineer in Artvin
Mr. Nuri Salamsoy	Engineer in Artvin

#### General Directorate of Forestry, Artvin Province, MOF

Mr. Fikret Koçak	Regional Director
Mr. Nazim Avci	Deputy Regional Director
Mr. Ismail Albayrak	Deputy Regional Director
Mr. Özcan Birol	Forest District Director
Mr. Suat Yildiz	Director of Finance Section
Mr. Sevket Alkan	Forest Protection Section Director

#### General Directorate of Forest Village Relations, Artvin Province, MOF

Mr. Ayhan Gündüz	Chief Engineer
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#### General Directorate of National Parks, Game and Wildlife, Artvin Province, MOF

Mr. Casim Cihan	Chief Engineer of National Parks and Game-Wildlife
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#### General Directorate of Reforestation and Erosion Control, Erzurum Province, MOF

Mr. Necati Ürüsan	Regional Director of East Anatolia
Mr. Ekrem Taftali	Deputy Regional Director
Mr. Selani Öksüz	Chief Engineer of Projects and Survey

#### General Directorate of Forest Village Relations, Erzurum Province, MOF

Mr. Metin Meral	Chief Engineer
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#### General Directorate of National Parks, Game and Wildlife, Erzurum Province, MOF

Mr. Muammer Toraman	Chief Engineer
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General Directorate of Forestry, Erzurum Province, MOF

Mr. Gürel Sirin Regional Director  
Mr. Abdulkadir Eroglu Deputy Regional Director

Japanese Side

Preparatory Study Team

Mr. Takamasa Fukuda Leader  
Mr. Yasuhisa Tanaka Member  
Mr. Tsutomu Handa Member  
Mr. Isao Dojun Member  
Mr. Masaru Honda Member  
Dr. Nurettin Elbir Interpreter

Embassy of Japan

Mr. Yuichi Odawara Second Secretary  
Mr. Yoshihito Kageyama Second Secretary

JICA Turkish Office

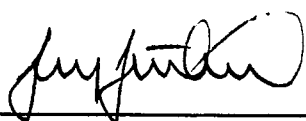
Mr. Yasushi Inaba Resident Representative  
Mr. Seiichi Koike Deputy Resident Representative  
Ms. Yukari Saito Assistant Resident Representative  
Mr. Ali Bekin Staff



MINUTES OF MEETING  
ON  
THE INCEPTION REPORT  
FOR  
THE MASTER PLAN STUDY ON  
PARTICIPATORY WATERSHED REHABILITATION  
IN CORUH RIVER IN THE REPUBLIC OF TURKEY

AGREED UPON BETWEEN  
MINISTRY OF FORESTRY  
OF  
THE REPUBLIC OF TURKEY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

ANKARA, 4 October, 2002



Mr. Yavuz YÜKSEL  
Deputy Undersecretary  
Ministry of Forestry,  
Republic of Turkey



Mr. Yutaka NOZAKI  
Team Leader  
JICA Study Team

(witnessed by)



Mr. Kimiaki JIN  
Advisory Team  
JICA

The Study Team organized by the Japan International Cooperation Agency (hereinafter referred to as "JICA Study Team") for The Master Plan Study on Participatory Watershed Rehabilitation in Coruh River in the Republic of Turkey (hereinafter referred to as "the Study"), headed by Mr. Yutaka NOZAKI, officially submitted thirty (30) copies of the Inception Report and a set of files (CD-ROM) to the Ministry of Forestry, in accordance with the Scope of Work for the Study signed between the Ministry of Forestry and JICA on April 19, 2002.

The Meeting on the Inception Report was held on October 1 to 3, 2002. In the meeting, the JICA Study Team explained the contents of the Inception Report to the Ministry of Forestry, and a series of discussions were held. The list of participants is attached in Appendix- I . As a result, the Inception Report was basically accepted by the Ministry of Forestry. Both sides have been satisfied with the improvement of the inception stage of the Study.

The results of the main issues discussed by both sides, are as follows.

### **1. *Confirmation of the Study Area***

The area of 1.17 million hectares mentioned in the Scope of Work covers middle part of the watershed selected as a priority area based on the available information on the physical, natural and socio-economic conditions of watershed and the institutional capacity of Turkish side.

However, both sides discussed and understood that it was necessary to study the whole basin of the Coruh river including the preparation of land use / vegetation map and construction of GIS database.

Finally, both sides agreed that the study area would cover the whole watershed of the Coruh river with an area of some 2 million hectares(Appendix- II ).

### **2. *Holding of periodical meetings***

Both sides agreed that the JICA Study Team and the Turkish counterparts would hold periodical meetings for the smooth implementation of the Study.



3. *Explanation to relevant organizations*

Both sides agreed that the Ministry of Forestry would explain about the Study to relevant organizations and request their support to the Study.

4. *Preparation of office space*

Both sides agreed that the Ministry of Forestry would provide suitable office space with necessary equipment and furniture, as mentioned in the Scope of Work.

5. *Nomination of counterpart personnel*

The Ministry of Forestry nominated counterpart personnel for each member of the JICA Study Team as listed in Appendix-III.

6. *Counterpart training*

The Ministry of Forestry strongly requested to conduct counterpart training in Japan for several staffs, and the JICA Study Team promised to convey that request to the JICA headquarters.

A handwritten signature in black ink, appearing to be 'JICA' followed by a stylized name or initials.

**List of Participants**

**Turkish Side**

**Ministry of Forestry (MOF)**

Mr. Yavuz Yüksel	Deputy Undersecretary
Dr. Erkan Ispirli	Head of Foreign Relations and EU Department
Dr. Ahmet Şenyaz	Division Director of Foreign Financed Projects

**General Directorate of Reforestation and Erosion Control, MOF**

Mr. İsmail Küçükaya	Deputy Director General
Mr. Tuncay Öztekin	Head of Erosion Control
Mr. Halit Babalık	Division Director of Foreign Financed Projects
Mr. Yılmaz Atlas	Division Director of Erosion Control
Mr. Ünal Özdoğru	Division Director of Range Management

**General Directorate of Forestry, MOF**

Mr. Atilla Kurmus	Director of Forest Maintenance and Energy Forests, Silviculture Department
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**General Directorate of Forest Village Relations, MOF**

Mr. T. Mustafa Bayrak	Division Director of Coordination and Evaluation
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**General Directorate of National Parks, Game and Wildlife, MOF**

Mr. Hüseyin Aytaç	Division Director of National Parks
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**Japanese Side**

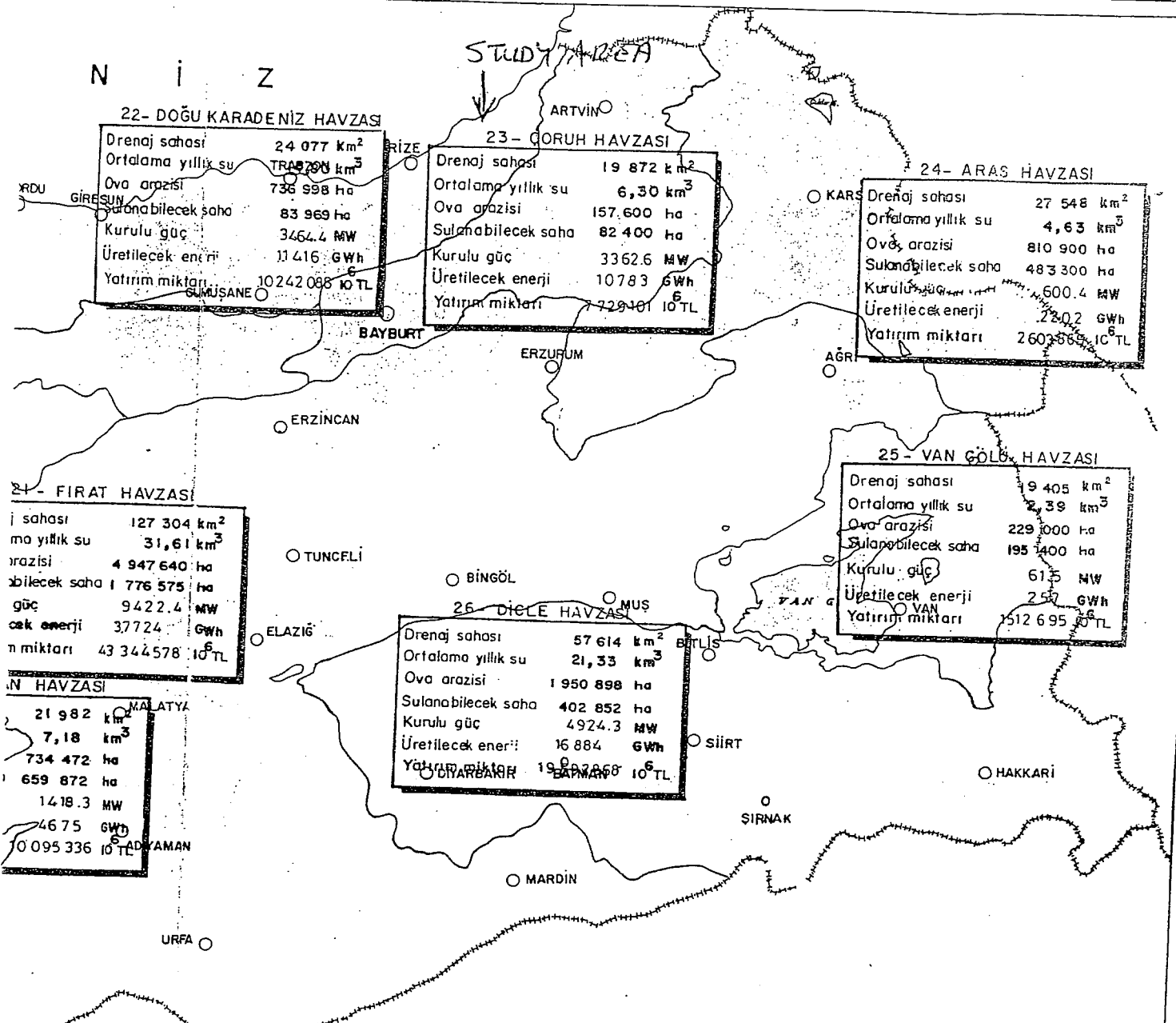
**JICA Study Team**

Mr. Yutaka Nozaki	Team Leader
Mr. Hisanori Tashima	Member
Dr. Tetsuo Mizobe	Member
Mr. Takashi Kimijima	Member
Mr. Naohito Watanabe	Member
Mr. Kenjiro Suzuki	Member

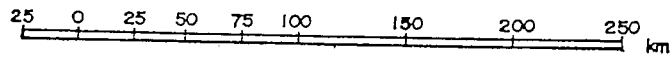
**JICA Headquarters in Tokyo**

Mr. Kimiaki Jin	Advisory Team
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DEVLET SU İŞLERİ GENEL MÜDÜRLÜĞÜ

TÜRKİYE'NİN TOPRAK VE SU KAYNAKLARI  
POTANSİYEL HARİTASI

İŞARETLER:

Ön incelemeleri tamamlanmış havzalar  
Yatırım miktarı 1990 yılı fiyatlarıyla

Şey 67 Noz.

TABLO EK 1. TÜRKİYE'NİN SU VE TOPRAK KAYNAKLARI POTANSİYELİ

NO	HAVZA ADI	HAVZA		HAUZADAKİ ORTALAMA SU			HAUZADA SU DEPOSU		HAUZADA TOPRAK KAYNAKLARI		DEVELOPMANIN GERÇEKLEŞMESİ İÇİN GEREKLİ YATIRIM (1998 yılı fiyatları) (milyon TL)	DEVELOPMAN SONU ELDE EDİLECEK FAYDALAR						
		1997 YILI NÜFUSU	YÖZÖLÜCÜMÜ (km <sup>2</sup> )	YILLIK ORTALAMA YAĞIŞ (mm)	YILLIK HAUZA YERİMİ (l/ha.km <sup>2</sup> )	YILLIK TOPLAM AKIŞ (km <sup>3</sup> )	BARAJ Adet	EDİLEN SU (hm <sup>3</sup> )	TARIM ALANI (ha)	SULANABİLİR ALAN (ha)		SULAMA (ha)	TAŞKIN KORUMA (ha)	KURUTMA (ha)	ENERJİ		İÇMESUYU (hm <sup>3</sup> /yıl)	
															KURULU GÜÇ (MW)	ORTALAMA ÜRETİM (GWh)		
1	MERİÇ ERGENE	1 056 473	14 560	604,0	2,9	1,33	21	1 817,0	1 095 320	1 077 992	253 692 265	163 625	82 277	9 018				21,4
2	MARMARA	11 329 437	24 180	728,7	11,0	8,33	58	2 894,5	865 704	729 957	1 168 832 476	123 228	7 866		0,3		2 506,2	
3	SUSURLUK	2 674 579	22 399	711,6	7,2	5,43	26	3 848,0	850 046	755 934	558 072 513	183 809	41 528		507,0	1 602	461,0	
4	KUZEY EGE	617 011	10 003	624,2	7,4	2,09	15	797,0	367 479	316 348	225 167 292	90 937	720		16,2	42	154,0	
5	GEDİZ	2 327 897	18 000	603,0	3,6	1,95	16	3 565,9	667 207	623 403	232 082 653	174 204	74 321		94,0	243		
6	K.MENDERES	1 972 770	6 907	727,4	5,3	1,19	17	1 697,7	222 437	194 799	642 821 353	45 681	21 500		48,0	143	685,8	
7	B.MENDERES	1 975 402	24 976	664,3	3,9	3,03	22	2 739,9	1 044 296	907 383	805 153 225	324 798	55 851		221,1	831	70,6	
8	BATI AKDENİZ	890 441	20 953	875,8	12,4	8,93	25	1 830,0	437 356	406 601	465 775 865	133 724	8 203	4 723	673,6	2 534	106,8	
9	ANTALYA	1 558 219	19 577	1 000,4	24,2	11,06	14	2 858,0	451 224	448 111	448 314 783	149 901	18 631	15 994	1 432,8	5 163	320,6	
10	BURDUR GÖLLER	200 200	6 374	446,3	1,8	0,50	9	161,7	251 403	249 484	88 063 611	43 037						
11	AKARÇAY	665 447	7 605	451,8	1,9	0,49	3	172,0	364 411	359 938	51 936 016	33 380	12 000		0,3			
12	SAKARYA	5 703 375	58 160	524,7	3,6	6,40	45	6 827,9	2 814 341	2 681 137	1 966 088 519	377 514	68 657	46 939	1 095,7	2 373	1 578,8	
13	BATI K.DENİZ	1 892 776	29 598	811,0	10,6	9,93	28	2 784,0	855 008	640 557	360 303 235	101 934	10 132	308	624,0	2 176	1 389,2	
14	YEŞİLIRMAK	2 290 024	36 114	496,5	5,1	5,80	44	6 194,9	1 617 206	1 401 213	936 015 451	343 219	80 852		1 259,0	5 297	169,5	
15	KIZILIRMAK	3 963 186	78 180	446,1	2,6	6,48	78	23 774,3	4 049 796	3 761 142	1 411 762 258	623 981	57 762	12 119	2 093,5	6 320	94,2	
16	KONYA KAPALI	2 430 709	53 850	416,8	2,5	4,52	25	2 800,8	2 182 762	2 134 915	809 505 879	426 439		1 600	32,1	104	37,8	
17	DOĞU AKDENİZ	2 051 695	22 048	745,0	15,6	11,07	11	10 173,5	438 281	327 790	705 554 425	99 969	3 350	5 265	1 389,5	5 029	328,2	
18	SEYHAN	1 695 572	20 450	624,0	12,3	8,01	18	6 124,5	764 673	714 014	703 522 810	310 940	42 440	60	2 000,8	7 571	681,5	
19	ASI	1 277 313	7 796	815,6	3,4	1,17	8	1 086,5	376 240	331 719	233 407 428	97 881	33 000	20 000	37,3	102	17,7	
20	CEYHAN	1 418 391	21 982	731,6	10,7	7,18	27	8 229,3	779 792	713 670	1 202 697 026	515 642	79 622	11 300	1 413,2	4 652	567,9	
21	FIRAT	7 199 119	127 304	540,1	8,3	31,61	89	112 193,2	4 293 793	4 111 316	7 163 774 901	1 869 660		9 648,3	37 961	395,3		
22	DOĞU KARADENİZ	2 494 663	24 077	1 198,2	19,5	14,90	41	1 491,4	712 575	350 717	1 297 333 256		1 792	3 307,5	11 062	127,7		
23	ÇORUH	467 718	19 872	629,4	10,1	6,30	21	7 467,3	326 220	303 362	2 107 024 050	42 535	624	3 133,9	10 540			
24	ARAS	889 157	27 548	432,4	5,3	4,63	20	4 085,2	642 017	641 137	530 897 401	279 165	3 740	587,9	2 287	17,8		
25	VAN KAPALI	1 005 209	19 405	474,3	5,0	2,39	7	608,7	436 485	433 319	202 454 322	90 027	3 000	61,9	257			
26	DİCLE	2 818 791	57 614	807,2	13,1	21,33	42	30 630,5	1 148 238	1 137 628	3 371 718 502	609 224		5 050,8	16 751	124,3		
	TOPLAM	62 865 574	779 452	642,6	209,3	186,05	730	246 853,9	28 054 310	25 753 586	27 938 971 515	7 254 454	704 868	130 326	34 728,7	123 040	9 856,3	
		(XX)	(X)															

Not: (x) Ortalama değer, (xx) Akarsu havzalarının Türkiye dışındaki alanları dahil edilmemiştir.

09/10/2003

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## Study Team Members and Responsibility

Responsibility	Japanese Side	Turkish Side	Unit
Team Leader	Yutaka NOZAKI	İsmail KÜÇÜKKAYA	AGM
		Ahmet ŞENYAZ	MOF
Water Management /Vegetation/Afforestation	Hisanori TASHIMA	Yılmaz ALTAŞ	AGM
Soil Conservation	Peter Raglan STEVENS	Yılmaz ALTAŞ	AGM
Agriculture/Small Scale Irrigation	Tetsuo MIZOBE	Mustafa BAYRAK	ORKÖY
Livestock/Pastureland Management	Hasan GENÇAGA	Yılmaz ALTAŞ	AGM
Socio-economy/Community Development	Takashi KIMIJIMA	Mustafa BAYRAK	ORKÖY
Organization/Extension	Masayuki TAKAZAWA	Halit BABALIK	AGM
GIS/Remote Sensing	Syunsuke TOMIMURA	Atila KURMUŞ	OGM
Project Evaluation/ Monitoring	Yoshiteru SUNAGO	Yılmaz ALTAŞ	AGM
Environment Assessment	Naohito WATANABE	Hüseyin AYTAÇ	MPGM
Coordinator	Kenjiro SUZUKI	Halit BABALIK	AGM

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MINUTES OF MEETING  
ON  
THE INTERIM REPORT  
FOR  
THE MASTER PLAN STUDY ON  
PARTICIPATORY WATERSHED REHABILITATION  
IN CORUH RIVER IN THE REPUBLIC OF TURKEY

AGREED UPON BETWEEN  
MINISTRY OF ENVIRONMENT AND FORESTRY  
OF  
THE REPUBLIC OF TURKEY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY

ANKARA, 20 MAY, 2003

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Mr. Mustafa Yüksek  
Director General  
Ministry of Environment and Forestry,  
The Republic of Turkey

  
Mr. Yutaka NOZAKI  
Team Leader  
JICA Study Team

(witnessed by)

  
Mr. Kimiaki JIN  
Monitoring Team  
JICA



The Study Team organized by the Japan International Cooperation Agency (hereinafter referred to as “JICA Study Team”) for The Master Plan Study on Participatory Watershed Rehabilitation in Coruh River in the Republic of Turkey (hereinafter referred to as “the Study”), headed by Mr. Yutaka NOZAKI, officially submitted thirty (30) copies of the Interim Report and a set of files (CD-ROM) to the Ministry of Environment and Forestry, in accordance with the Scope of Work for the Study signed between the former Ministry of Forestry and JICA on April 19, 2002.

The Meeting on the Interim Report was held on May 13 to 14, 2003. The list of participants is attached in Appendix- I . In the meeting, the JICA Study Team explained to the Ministry of Environment and Forestry about the contents of the Interim Report including present condition, problems and potentials of the Study area, basic strategies of the Master Plan, selection of Micro-Catchments and contents of the further studies, and had a series of discussions. As a result, the Interim Report was accepted by the Ministry of Environment and Forestry.

The results of the main issues discussed by both sides, are as follows.

1. Among the explanation of the selection of six Model Micro-Catchments by the Study Team, the Ministry of Environment and Forestry basically approved the selection. Both sides confirmed that the selection would be finalized as soon as possible with the confirmation of the Ministry of Environment and Forestry.
2. The outline of components and methodology of the Rural Socio-Economic survey to be conducted during Field Survey (2) was explained by the Study Team, and the Ministry of Environment and Forestry basically agreed to it.
3. Both sides agreed that Micro-Catchment plans with 1/25,000 scale of maps for the selected Micro-Catchments should be prepared in the Study.
4. The Turkish side declared that there would not be any negative effects to the Study by the amalgamation of the former Ministry of Forestry and the former Ministry of Environment.
5. Both sides agreed that the Ministry of Environment and Forestry would provide suitable office space with necessary equipment and furniture for the Study Team, as mentioned in the Scope of Work.



6. The Ministry of Environment and Forestry strongly requested to conduct counterpart training in Japan for several staffs, and the JICA Study Team promised to convey that request to the JICA headquarters.

During the discussion for the Interim report, the JICA Monitoring Team requested the Ministry of Environment and Forestry to provide comments to the following points.

- a. Basic strategies/tactics of implementing the master plan, especially the possible mobilization of financial sources.
- b. Consensus shared among concerned ministries/organizations on the above implementation process, especially the opinion of State Planning Organization and Ministry of Treasury if the Ministry of Environment and Forestry is expecting to receive foreign financial assistance.
- c. An approximate size (total project cost) and implementation period of the master plan.
- d. Priority area and micro-catchments, which should be focused in the master plan, and their selection criteria.

Besides, in view of smooth implementation of the Master Plan, the JICA Monitoring Team advised the Ministry of Environment and Forestry to start dialogue in early stages with State Planning Organizations and the Ministry of Treasury for project financing and budget allocation.

The comments of the Ministry of Environment and Forestry in response to the request of the JICA Monitoring Team are as indicated below.

- a. The Ministry of Environment and Forestry will undertake necessary initiatives for implementation of the Master Plan, especially for allocation of financial resources from the government budget and when necessary for receiving foreign finance assistance.
- b. Pre-approval of the State Planning Organization was obtained before starting the Master Plan Study on Participatory Watershed Rehabilitation in the Çoruh River. The Ministry of Environment and Forestry believes that after submission of the Master Plan, together with a well-prepared Implementation Plan (Project), both the State Planning Organization and the Undersecretariat of Treasury will support the implementation of the Master Plan.



- c. Approximate period for implementation of the Master Plan (implementation project) is estimated 5-7 years. Reliable cost estimates for Implementation Plan (project) will be available only after completion of the participatory planning for the 6 model micro catchments. However, based on the MOF's previous experiences, minimum cost of the implementation project can be estimated around 15-20 million US Dollars.
- d. The Interim Report provides a set of relevant criteria for identification of the priority watershed areas and micro catchments, which should be focused in the master plan. It is believed that these criteria and their indicators can be slightly improved jointly by the Master Plan team and national experts. In selection of the priority areas and micro catchments, the most important criteria should include the: (i) severity of degradation (level of erosion, sedimentation, deforestation, threats on lives, settlements and infrastructures, etc.); (ii) potential for rehabilitation; (iii) poverty and dependence/pressures on the natural resources. Identification of the potential for rehabilitation should pay attention besides the ecological conditions, also and particularly on the interest and willingness of local communities for participating in the activities. Based on relevant criteria, preliminary prioritization of the catchments areas and micro catchments will be provided by the Ministry of Environment and Forestry during the present mission.



MoF.



## List of Participants

### Turkish Side

#### Ministry of Environment and Forestry (MOEF)

Mr. Mustafa Yüksek	Director General
Dr. Erkan Ispirli	Head of Foreign Relations and EU Department

#### General Directorate of Reforestation and Erosion Control, MOEF

Mr. Ismail Küçukkaya	Deputy Director General
Mr. Ismail Belen	Head of Planning and Coordination Department
Mr. Halit Babalık	Division Director of Foreign Financed Projects

#### General Directorate of Forestry, MOEF

Mr. Ugur Tüfekçioğlu	Division Director
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#### General Directorate of Forest Village Relations, MOEF

Mr. Muhammet Bayburtlu	Head of Department
Mr. T. Mustafa Bayrak	Division Director of Coordination and Evaluation

#### General Directorate of Nature Conservation and National Parks, MOEF

Mr. Hüseyin Aytaç	Division Director of National Parks
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### Japanese Side

#### JICA Study Team

Mr. Yutaka Nozaki	Team Leader
Mr. Hisanori Tashima	Member
Mr. Tetsuo Mizobe	Member
Dr. Hasan Gencaga	Member
Mr. Takashi Kimijima	Member
Mr. Naohito Watanabe	Member
Mr. Kenjiro Suzuki	Member
Dr. Muzaffer Dogru	Local Consultant

#### JICA Headquarters in Tokyo

Mr. Kimiaki Jin	Monitoring Team
Mr. Shiro Akamatsu	Monitoring Team
Mr. Akira Shimura	Monitoring Team

**MINUTES OF MEETING  
ON  
THE DRAFT FINAL REPORT  
FOR  
THE MASTER PLAN STUDY ON  
PARTICIPATORY WATERSHED REHABILITATION  
IN CORUH RIVER IN THE REPUBLIC OF TURKEY**

**AGREED UPON BETWEEN  
MINISTRY OF ENVIRONMENT AND FORESTRY  
OF  
THE REPUBLIC OF TURKEY  
AND  
JAPAN INTERNATIONAL COOPERATION AGENCY**

**ANKARA, 19 NOVEMBER, 2003**

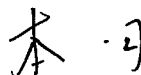


**Dr. Nuri USLU  
Deputy Undersecretary  
Ministry of Environment and Forestry,  
The Republic of Turkey**



**Mr. Yutaka NOZAKI  
Team Leader  
JICA Study Team**

(witnessed by)



**Mr. Masaru HONDA  
Monitoring Team  
JICA**

The Study Team organized by the Japan International Cooperation Agency (hereinafter referred to as “JICA Study Team”) for The Master Plan Study on Participatory Watershed Rehabilitation in Coruh River in the Republic of Turkey (hereinafter referred to as “the Study”), headed by Mr. Yutaka NOZAKI, officially submitted thirty (30) copies of the Draft Final Report, three (3) sets of Thematic Maps at a scale of 1:25,000 and one (1) set of GIS database, to the Ministry of Environment and Forestry, in accordance with the Scope of Work for the Study signed between the former Ministry of Forestry and JICA on April 19, 2002.

The Meeting on the Draft Final Report was held on November 11 and 13, 2003. The list of participants is attached in Appendix- I . In the meeting, the JICA Study Team explained to the Ministry of Environment and Forestry (MEF) about the contents of the Draft Final Report including present condition, problems and potentials of the Study area, detailed Micro-Catchment Plans, the Master Plan, and a series of discussions was made.

The major points of discussion are in the following.

- a) The Draft Final Report was basically accepted by the MEF.
- b) Both sides agreed that specific procedure for selecting beneficiaries in the livestock development project would be proposed by the MEF and that the proposed procedure would be reflected into the Recommendations of the Final Report.
- c) Both sides agreed that the MEF would examine further the role of local implementation structure and that the proposed ideas, if any, would be reflected into the Final Report.
- d) Both sides agreed that the JICA Study Team would re-examine the unit price of energy forest plantation.
- e) While highly appreciating the inclusion of National Parks and Protected Areas Management Project in the Master Plan, the MEF requested the JICA Study Team to emphasize participatory planning process in the project by adding a participatory planning expert in the proposed study team or by adding workshop on participatory planning in the project activity, and the JICA Study Team accepted it.

## **1. Further Comments on the Draft Final Report**

It was decided that the comments on the Draft Final Report should be submitted to the JICA Turkey Office by December 24, 2003.

A handwritten signature in black ink, appearing to be 'Y. Nozaki', is located at the bottom right of the page.

**2. Submission of the Final Report to the MEF**

The JICA Study Team shall finalize the Final Report and send it to the MEF in February, 2004.

**3. Interest in Technical Cooperation**

The MEF has expressed its interest in proceeding further technical cooperation from the Government of Japan.

A handwritten signature in black ink, appearing to be in Japanese characters, located at the bottom right of the page.

**List of Participants**

**Turkish Side**

Ministry of Environment and Forestry (MEF)

Dr. Nuri USLU	Deputy Undersecretary
Mr. Mustafa YÜKSEK	AGM General Director
Mr. Ismail BELEN	Head of Planning Department
Mr. Hanifi AVCI	Assistant Director General of AGM
Mr. Yılmaz ALTAŞ	Head of Erosion Control and Range Rehabilitation
Mr. Hamza ERYİĞİT	Head of Private Afforestation and Projects Department
Mr. M. Hanifi NARLIOĞLU	Head of Afforestation Department
Mr. Erdogan OZEVREN	Division Director of Erosion Control
Ms. Aynur ŞANLITÜRK	Division Director of Survey Project
Mr. T. Mustafa BAYRAK	Division Director of Statistical and Research
Ms. Suade ARANÇLI	Division Director of Foreign Relations, DKMPGM

**Japanese Side**

JICA Study Team

Mr. Yutaka NOZAKI	Team Leader
Mr. Tetsuo MIZOBE	Member
Mr. Takashi KIMIJIMA	Member
Mr. Kenjiro SUZUKI	Member

JICA Monitoring Team

Mr. Masaru HONDA	JICA Headquarters in Tokyo
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JICA Turkey Office

Mr. Yasushi INABA	Resident Representative
Mr. Ali BEKIN	Administrative Officer

