4890609 (4)
PD-AAD-437

AID 1330-1 (6-64)

PRO AG

PROJECT AGREEMENT

BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMEN AID), AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND ECONOMIC PLANNING BOARD

AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF KOREA

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

[x] PROJECT DESCRIPTION ANNEX A
[x] FOREIGN CURRENCY STANDARD PROVISIONS ANNEX
[x] STANDARD PROVISIONS ANNEX
[ ] SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

[ ] GENERAL AGREEMENT FOR TECHNICAL COOPERATION	DATE
[x] ECONOMIC COOPERATION AGREEMENT	DATE 3/28/61
[ ] (other)	DATE

1. PROJECT/ACTIVITY NO. 489-11-250-609

PAGE 1 OF 13 PAGES

2. AGREEMENT NO. 609-0002

3. [ ] ORIGINAL OR REVISION NO. 2

4. PROJECT/ACTIVITY TITLE

WATER RESOURCES DEVELOPMENT

5. PROJECT DESCRIPTION AND EXPLANATION

(See Annex A attached)

6. AID APPROPRIATION SYMBOL 72-1101004

7. AID ALLOTMENT SYMBOL 054-50-489-00-69-01

8. AID FINANCING [X] DOLLAR [ ] LOCAL CURRENCY	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
(a) Total	303,200	39,000		342,200
(b) ~~Contract Services~~ PASA	303,200			303,200
(c) Commodities				
(d) ~~JOP Rotation~~ PARTICIPANTS		39,000		39,000
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT $1.00=				
(a) Total				
(b) Technical and other Services				
(c) Commodities				
(d) Other Costs				

10. SPECIAL PROVISIONS (Use Additional Continuation Sheets, if Necessary)

This revision adds funds to finance participant training and incorporates the narrative text which covers project activities during fiscal year 1970.

All other terms and conditions remain the same.

11. DATE OF ORIGINAL AGREEMENT	12. DATE OF THIS REVISION	13. ESTIMATED FINAL CONTRIBUTION DATE
July 15, 1969	December 3, 1969	September 30, 1971

14. FOR THE COOPERATING GOVERNMENT OR AGENCY

SIGNATURE: [signature] DATE: Dec. 2, 1969
TITLE: for Minister, EPB, ROK

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT

SIGNATURE: M. D. Weden DATE: 12/3/69
TITLE: Director, USAID/K

AD/P-P
AD/P-TR
AD/MEI
JAS
AD/C
KFO
LEG
AD/P

13p.

FINAL

I. GENERAL DESCRIPTION

This project continues assistance to the Korean Government in its efforts to develop Korea's water resources. Korea's industrial and agricultural demands for expanded infrastructural support, including electric power, pure water supply, irrigation and flood control, have resulted in substantial investments in these areas with the U.S. playing a major contributory role. This is particularly true in the Han River Basin where major capital inputs have been and are being made to support these demands.

A comprehensive and carefully evaluated survey aimed at achieving the most productive benefits from the Basin's resources is of critical importance to Korea's developmental efforts. This project, therefore, is financing such a survey of the Han River Basin.

The overall objectives of the project are:

(a) to prepare a master plan for the orderly development of (1) the potential total water resources of the Han River Basin, including ground as well as surface water, (2) flood control, (3) reservoirs, (4) hydropower, and (5) irrigation.

(b) to introduce modern, multi-purpose, basin-wide investigative techniques;

(c) to train Koreans so that a well-qualified, professional cadre will be available to carry out the plans and recommendations resulting from the survey.

Initially, the survey was being conducted by a team of 10 American specialists and 75 Koreans. As the survey progressed and there was less need for personnel, the survey team was reduced to seven water resources specialists provided under PASA

arrangements with the U.S. Bureau of Reclamation, one groundwater geologist from the U.S. Geological survey, and 50 Koreans. During fiscal years 1970, this project will continue to finance PASA services for the American professionals and will also finance the training of nine participants as listed in Annex B, attached hereto.

II. SPECIFIC DESCRIPTION:

The Han River Basin Survey (a five-year program) is to culminate in a long-range plan for the development of the water resources of the Basin. The plan, to be outlined in technical reports, will include a summary of the studies made, conclusions regarding possible development, and a recommended plan of action. The components of the study include: (1) irrigation, (2) navigation, (3) power, (4) municipal and industrial water, (5) ground water, (6) pollution control, (7) flood control, (8) recreation, and (9) watershed development.

An important objective of this project is institutional building. Water resources development is a long-range proposition. To be effective, the planning and development must be a continuing endeavor. After the five year program in the Han River Basin has been completed, there will be a well-trained group of Korean engineers and technicians who can continue this work, not only in the Han River Basin, but in other ROK river basins. Included in this phase of the activity was the establishment of surface water and ground water observation networks with crews trained to gather data and analyze it. This has been accomplished.

In December 1966 a preliminary report on the Soyang and Chungju dams was completed which resulted in plans for more feasible construction of high dams at both sites in lieu of the lower elevation dams previously considered. The Soyang dam is now under construction, and erection of the Chungju dam is under consideration.

A final report on the water resources of the Anyang Chon was prepared in 1969. It covers the use of existing ground water in an industrial area and outlines the possible future ground water potential of the area. The Anyang Chon is one of three pilot areas selected to demonstrate the kind of investigations needed in the three major types of water bearing formation found in the Han River Basin. The other two areas are Ichon and Tanyang.

This project is continuing to finance a PASA team provided by the U.S. Bureau of Reclamation (BUREC) to conduct the survey. At present, the team is composed of a Project Engineer, hydrologist, soil scientist, flood and navigation engineer, design engineer, an economist, and an administrative assistant. In addition, short-term specialists will be provided. Also under this project, the U.S. Geological Survey (USGS) is providing PASA services of a ground water geologist to assist with the Han River Basin Survey.

In FY 1970 nine participants under this project are being financed for training in water supply, sewerage, and water supply management and administration.

III. U.S. CONTRIBUTIONS

The United States Government (through the Agency for International Development) will provide the funds specified in Annex B to this Project Agreement. These funds provide for the services of BUREC and USGS personnel during FY 1970, and for participant training.

IV. ROKG CONTRIBUTIONS

1. Refer to Annex C of this Project Agreement for details of the ROKG contributions to the project. These will include logistics and administrative support for U.S. technicians, to be provided from the Trust Fund 72-FT-800 Account. This Project Agreement is to be amended at a future date to incorporate a Trust Fund budget, as soon as Won Trust Funds have been approved by the National Assembly.

2. As soon as Won funds are approved by the National Assembly, this Project Agreement will be amended to include the ROKG Won contribution to the project.

3. The ROKG will arrange that the U.S. personnel provided for by this document, and their dependents, will be exempt from all requirements for customs duties and import taxes on personal property (including motor vehicles) and household goods; and from any income and social security taxes assessed by the ROKG or its political sub-divisions. If not so exempted, the ROKG shall pay directly all costs thereof from other than counterpart funds or funds provided by the U.S. Government.

4. The ROKG will provide through its budget sufficient local currency to cover necessary in-country transport, licensing, installation and maintenance costs of all equipment and supplies financed by AID under this project. The ROKG will make proper and timely installation and use of equipment or material furnished this project.

5. The ROKG will provide suitable office space, utilities (including telephones), usual office furniture, and salaries of Korean administrative and secretarial personnel necessary to support execution of the project.

6. The ROKG assures that full-time qualified Korean counterparts will be either in training or working closely with U.S. technicians on the project, and that these counterparts will be available when considered necessary by the USAID. These counterpart services will be entirely financed by the ROKG from other than Trust Funds.

7. The ROKG agrees to finance from its regular budget, all costs of international transportation for the participants listed in Annex B to this document.

8. The ROKG assures that the Koreans trained under this project, either on-the-job or under the AID participant program, will be retained and assigned to positions suiting their capabilities so that the knowledge gained may be applied to the continuing benefit of the project.

V. SPECIAL PROVISIONS

The Ministry of National Construction (MONC) of the ROKG, through the Korea Water Resources Development Corporation, shall be administratively responsible for this agreement on the part of the Government of the Republic of Korea.

The Chief, Engineering Branch, of the Development Loan, Engineering and Industry Division, USAID/Korea, shall be the official responsible on the part of the USAID/Korea for the implementation of this activity.

It is agreed that U.S. Government excess property may be provided for this project pursuant to pertinent U.S. Government laws, regulations and policies, as amended from time to time.

In addition, it is agreed that any U.S. Government excess property acquired by the ROKG for this project will be subject to the terms and conditions set forth in pertinent excess property transfer agreements between AID and the ROKG.

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	1st Half FY 70	2nd Half FY 70	1st Half FY 71	2nd Half FY 71
	I. PASA				
	A. Personnel				
$264,000 (previously obligated)	BUREC PASA				
	Project Engineer	XXXXXX	XXXXXX	XXXXXX	XXX
	Admin Assistant	XXXXXX	XXXX		
	Hydrologist	XXXXXX	XXXXXX	XXXXXX	XXX
	Soil Scientist	XXXXXX	XXXXXX	XXXX	
	Flood and Navigation Engineer	XXXXXX	XXXXXX	XXXXXX	
	Design and Estimate Engineer	XXXXXX	XXXXXX	XXXXX	
	Economist	XXXXXX	XXXXXX	XXXXXX	X
	TDY Agriculturist		XX		
	TDY Fish and Wildlife Biologist	XX			
39,200	USGS PASA				
	Ground Water Specialist	XXXXXX	XXXXXX	XXXXXX	XXXXXX
$303,200	Total PASA Obligations				

APPROPRIATION SCHEDULE

PROJECT DESCRIPTION: ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

ACC. 21-250-000

209-0002

WATER RESOURCES DEVELOPMENT

PAGE 13

2

For the Cooperating Government Agency

SIGNATURE: DATE:

TITLE:

For the Agency for International Development

SIGNATURE: DATE:

TITLE:

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM				1st HALF FY 70 JASOND	2nd HALF FY 70 JFMAMJ	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ
	II. PARTICIPANT TRAINING							
	Subject to qualification of suitable participants and the availability of appropriate training programs, the U.S. will provide the following participant training:							
	Field	Man Mos. Each	No.	Training Area				
$12,000	Groundwater	6	3	U.S.				
12,000	Field Engineer	6	3	U.S.				
15,000	Water Works Management	8	3	U.S.				
$39,000								
	III. IMPLEMENTATION							
	The PASA personnel listed above, in collaboration with their Korean counterparts, will carry out the following tasks. The work will be in progress or accomplished during the approximate periods shown at the right:							
	1. Continue operation of stream gage network;				XXXXXX	XXXXXX	XXXXXX	XXXXXX
	2. Make reservoir operations studies showing the month-by-month operation of each proposed reservoir;				XXXXXX	XXXXXX	XXXXXX	XXXXXX

For the Government of Korea

SIGNATURE _____ DATE _____

TITLE _____

For the Agency for International Development

SIGNATURE _____ DATE _____

TITLE _____

INTERPRETATION SCHEDULE

PROJECT DESCRIPTION SHEET

ECONOMIC PLANNING FUND

THE REPUBLIC OF KOREA

WATER RESOURCES DEVELOPMENT

608-0002

2

13

ANNEX B

U.S. CONTRIBUTION

$ Amount Obligated Herein	ITEM	1st HALF FY 70 JASOND	2nd HALF FY 70 JFMAMJ	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ
	III. IMPLEMENTATION (Continued)				
	3. Analyze and correlate assembled hydrologic data, and draft hydrology appendix to the project final report;		XXXXXX	XXXXXX	
	4. Continue land classification activities in the areas previously selected for the irrigation system study;	XXXXXX	XXXXXX		
	5. Continue tests for soils characteristics and make laboratory analyses made of soil samples;	XXXXXX	XXX		
	6. Continue study of productivity of soils with and without irrigation;	XXXXXX	XXX		
	7. Analyze assembled land resources data, and draft land classification appendix to the project final report;		XXXXXX	XXXXXX	
	8. Make power load forecasts, study power plant and transmission line characteristics, make peaking power studies, and study economics of hydropower in river development plans;	XXXXXX	XXXXXX		

For the Cooperating Government or Agency

SIGNATURE: _____ DATE: _____

TITLE: _____

For the Agency for International Development

SIGNATURE: _____ DATE: _____

TITLE: _____

PROJECT NO. 1 ECONOMIC PLANNING BOARD

PROJECT NO. 2 WATER RESOURCES DEVELOPMENT

PROJECT NO. 3 THE REPUBLIC OF KOREA

PROJECT NO. 609-0002

PAGE 13 OF 13

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	1st HALF FY 70 JASOND	2nd HALF FY 70 JFMAMJ	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ
	III. IMPLEMENTATION (Continued)				
	9. Analyze and correlate assembled power data, and draft power appendix to the project final report;		XXXXX		
	10. Continue flood control studies to assure optimum flood control storage and benefits;	XXXXXX	XXXXX		
	11. Analyze and correlate assembled flood control data, and draft flood control appendix to the project final report;		XXX	XXXXXX	
	12. Continue Seoul-Inchon barge waterway studies, and studies of navigation of the Han River upstream from Seoul;	XXXXXX	XXXXXX		
	13. Compile data for design and maintenance estimates of dams and power plants;	XXXX			
	14. Continue layouts and costs estimates for irrigation systems;	XXXXXX	XXXXXX		
	15. Analyze and correlate assembled design and cost estimates data, and draft design and estimates appendix to the project final report;		XXXX	XXXXXX	

PROJECT AGREEMENT
BETWEEN THE
ECONOMIC PLANNING BOARD
AND THE
THE REPUBLIC OF KOREA

Project No. 486-11-250-608
Project Number 599-0002

NAKDONG RIVER MULTIPLE DEVELOPMENT

Page 10 of 13
Page 2

For the Corresponding Government Agency

SIGNATURE
TITLE
DATE

For the Agency for International Development

SIGNATURE
TITLE
DATE

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	1st HALF FY 70 (ACCRUED)	2nd HALF FY 70 (ACCRUED)	1st HALF FY 71 (ACCRUED)	2nd HALF FY 71 (ACCRUED)
	III. IMPLEMENTATION (Continued)				
	16. Continue economic base studies, refine projections of population, GNP, and future water use, and continue gathering data for agricultural economics, irrigation benefits, and industrial water use and value;	XXXXXX	XXX		
	17. Analyze and correlate assembled economic data, and draft economic appendices to the project final report;		XXXXXX	XXXXXX	
	18. Continue geologic mapping and stream and well measurements in connection with ground water investigations.	XXXXXX	XXXXXX		
	19. Continue detailed studies of second and third pilot areas for ground water investigations;	XXXXXX	XXXXXX		
	20. Analyze and correlate assembled ground water data, and draft ground water appendix to the project final report;		XXX	XXXXXX	XXXXXX
	21. Continue engineering field surveys as required for various studies;	XXXXXX			

For the Cooperating Government Agency

SIGNATURE: DATE:

TITLE:

For the Agency for International Development

SIGNATURE: DATE:

TITLE:

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

411-11-230-000

609-0002

WATER RESOURCES DEVELOPMENT

2

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	1st HALF FY 70 JASOND	2nd HALF FY 70 JFMAM	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAM
	III. IMPLEMENTATION (Continued)				
	22. Continue geologic mapping of sites for dams and power plants;	XXXXXX			
	23. Investigate fish and wildlife aspects of water resources development in the Han River Basin, and draft report;	XXX			
	24. Draft appendices on Korean Water Law and on general geology of the basin, for inclusion with the project final report;	XXX			
	25. Continue intensive training of Korean specialists in the use of equipment, compilation and analysis of water resources data, water resources planning and engineering, and other important aspects of water resources investigations,	XXXXXX	XXXXXX	XXXXXX	XXXXXX

For the Cooperating Government or Agency

SIGNATURE _____ DATE _____

TITLE _____

For the Agency for International Development

SIGNATURE _____ DATE _____

TITLE _____

PROJECT AGREEMENT

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

Project No. 486-11-250-609

Project Title 609-0002

WATER RESOURCES DEVELOPMENT

PAGE 12 OF 13 PAGES

3 [ ] Original or [ ] Revision No. 2

ANNEX C

ROKG CONTRIBUTIONS

Estimated Won Provided (Dollar Equiv.)	Contributions to be made and/or actions to be carried out by ROKG	IMPLEMENTATION SCHEDULE 1st HALF FY 70 JASOND	2nd HALF FY 70 JFMAMJ	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ
	I. LOGISTIC AND ADMINISTRATIVE SUPPORT				
	As soon as approved by the National Assembly, Won from the Trust Fund 72-FT-300 Account will be made available to provide certain logistic and administrative support for PASA technicians working on the project. As soon as details and content of the Trust Fund Budget have been negotiated, this Project Agreement is to be revised to incorporate the budget.	XXXXXX	XXXXXX	XXXXXX	XXXXXX
	II. PARTICIPANT TRAINING				
	The ROKG will provide from its regular budget all costs incident to the international travel of the participants listed in Annex B of this Project Agreement.		XXXXXX	XXXXXX	
	III. ROKG BUDGETARY SUPPORT				
	This Project Agreement is to be amended in the future to incorporate the Won contribution to the project by the ROKG, as soon as the ROKG budget for CY 1970 has been approved by the National Assembly.	XXXXXX	XXXXXX	XXXXXX	

For the Cooperating Government or Agency

SIGNATURE: _____ DATE: _____

TITLE: _____

For the Agency for International Development

SIGNATURE: _____ DATE: _____

TITLE: _____

PROJECT TITLE: ECONOMIC PLANNING BOARD

PROJECT NO. 72-11-220-803

PROJECT CODE: 600-0002

PROJECT TITLE: WATER RESOURCES DEVELOPMENT

4890609 (5)
PD-AAD-437

PRO AG

PROJECT AGREEMENT

BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID), AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND ECONOMIC PLANNING BOARD

AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF KOREA

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

[X] PROJECT DESCRIPTION ANNEX A
[X] FOREIGN CURRENCY STANDARD PROVISIONS ANNEX
[X] STANDARD PROVISIONS ANNEX
[ ] SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

	DATE
[ ] GENERAL AGREEMENT FOR TECHNICAL COOPERATION	
[X] ECONOMIC COOPERATION AGREEMENT	2/28/61
[ ] (other)	

1. PROJECT/ACTIVITY NO. 489-11-250-609
PAGE 1 OF 2 PAGES
2. AGREEMENT NO 609-100
3. [X] ORIGINAL OR REVISION NO.
4. PROJECT/ACTIVITY TITLE
WATER RESOURCES DEVELOPMENT
18p.
5. PROJECT DESCRIPTION AND EXPLANATION
(See Annex A attached)
6. AID APPROPRIATION SYMBOL 72-1111004
7. AID ALLOTMENT SYMBOL 154-50-489-00-69-11

8. AID FINANCING [X] DOLLARS [ ] LOCAL CURRENCY	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
(a) Total		253,700		253,700
(b) ~~Contract Services~~ PASA		253,700		253,700
(c) Commodities				
(d) Other Costs				
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT $1.00=				
(a) Total				
(b) Technical and other Services				
(c) Commodities				
(d) Other Costs				

10. SPECIAL PROVISIONS (Use Additional Continuation Sheets, If Necessary)

11. DATE OF ORIGINAL AGREEMENT July 1, 1970
12. DATE OF THIS REVISION
13. ESTIMATED FINAL CONTRIBUTION DATE September 30, 1973

14. FOR THE COOPERATING GOVERNMENT OR AGENCY
SIGNATURE: [signature] DATE: July 20, 1970
TITLE: Minister, EPB, ROK

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT
SIGNATURE: Howard E. Kauffman DATE: 21 July 70
TITLE: Director, USAID/K

AID 1550-1A (4-68)

PROAG CONTINUATION SHEET

ANNEX A

PROJECT AGREEMENT

BETWEEN AID AND

ECONOMIC PLANNING BOARD

AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF KOREA

1. Project/Activity No. 489-11-250-609

2. Agreement No. 609-1001

3. [X] Original or Revision No. ____

4. Project/Activity Title

WATER RESOURCES DEVELOPMENT

This Project Agreement provides funds to continue financing PASA's FE-24-65 and FE-25-65 for the services of a team of six technicians from the U.S. Bureau of Reclamation and a groundwater geologist from the U.S. Geological Services during fiscal year 1971. These technicians are working on a survey of the Han River Basin which is being financed under this project.

Project details are similar to those contained in the fiscal years 1969 and 1970 Project Agreements.

It is understood that this Project Agreement is to be amended in the future to incorporate additional details for the project, and that at present only funds for PASA services are being obligated in order to facilitate negotiation and execution of the PASA's early in fiscal year 1971.

For the Cooperating Government or Agency

SIGNATURE: _____ DATE: _____

TITLE:

For the Agency for International Development

SIGNATURE: _____ DATE: _____

TITLE:

AID 1020-1 (8-64)

PRO AG

PROJECT AGREEMENT

BETWEEN THE DEPARTMENT OF STATE, AGENCY FOR INTERNATIONAL DEVELOPMENT (AID), AN AGENCY OF THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AND ECONOMIC PLANNING BOARD

AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF KOREA

The above-named parties hereby mutually agree to carry out a project in accordance with the terms set forth herein and the terms set forth in any annexes attached hereto, as checked below:

[X] PROJECT DESCRIPTION ANNEX A [X] FOREIGN CURRENCY STANDARD PROVISIONS ANNEX

[X] STANDARD PROVISIONS ANNEX [ ] SPECIAL LOAN PROVISIONS ANNEX

This Project Agreement is further subject to the terms of the following agreement between the two governments, as modified and supplemented:

[ ] GENERAL AGREEMENT FOR TECHNICAL COOPERATION	DATE
[X] ECONOMIC COOPERATION AGREEMENT	DATE 2/28/61
[ ] (other)	DATE

1. PROJECT/ACTIVITY NO. 489-11-250-609

PAGE 1 OF 16 PAGES

2. AGREEMENT NO. 609-1002

3. [ ] ORIGINAL OR REVISION NO. 2

4. PROJECT/ACTIVITY TITLE

WATER RESOURCES DEVELOPMENT

16p.

5. PROJECT DESCRIPTION AND EXPLANATION

(See Annex A attached)

6. AID APPROPRIATION SYMBOL 72-11110044

7. AID ALLOTMENT SYMBOL 154-50-489-00-69-11

8. AID FINANCING [X] DOLLARS [ ] LOCAL CURRENCY

	PREVIOUS TOTAL (A)	INCREASE (B)	DECREASE (C)	TOTAL TO DATE (D)
(a) Total	267,200	49,100		316,300
(b) ~~Contractors~~ PASA	267,200	2,600		269,800
PARTICIPANTS (c) ~~Commodities~~		46,500		46,500
(d) Other Costs				
9. COOPERATING AGENCY FINANCING - DOLLAR EQUIVALENT $1.00=				
(a) Total				
(b) Technical and other Services				
(c) Commodities				
(d) Other Costs				

10. SPECIAL PROVISIONS (Use Additional Continuation Sheets, if Necessary)

This revision adds participant training funds, the narrative, and other details of the project.

All other terms and conditions remain the same.

11. DATE OF ORIGINAL AGREEMENT	12. DATE OF THIS REVISION	13. ESTIMATED FINAL CONTRIBUTION DATE
July 21, 1970	January 13, 1971	September 30, 1973

14. FOR THE COOPERATING GOVERNMENT OR AGENCY

SIGNATURE: [signature] DATE: Jan. 8, 71

TITLE: Minister, EPB, ROK

15. FOR THE AGENCY FOR INTERNATIONAL DEVELOPMENT

SIGNATURE: [signature] DATE: 13 Jan 71

TITLE: Director, USAID/K

AD/P-P

I ED

AD/C

AD/P-TR

AD/P

FINAL

I. GENERAL DESCRIPTION

This project continues assistance to the Korean Government in its efforts to develop Korea's water resources. Korea's industrial and agricultural demands for expanded infrastructural support, including electric power, pure water supply, irrigation and flood control, have resulted in substantial investments in these areas with the U.S. playing a major contributory role. This is particularly true in the Han River where major capital inputs have been and are being made to support these demands.

A comprehensive and carefully evaluated survey aimed at achieving the most productive benefits from the Basin's resources is of critical importance to Korea's developmental efforts. This project, therefore, is financing such a survey of the Han River Basin.

The overall objectives of the project are:

(a) to prepare a master plan for the orderly development of (1) the potential total water resources of the Han River Basin, including ground as well as surface water, (2) flood control, (3) reservoirs, (4) hydropower, and (5) irrigation.

(b) to introduce modern, multi-purpose, basin-wide investigative techniques;

(c) to train Koreans so that a well-qualified, professional cadre will be available to carry out the plans and recommendations resulting from the survey.

Initially, the survey was being conducted by a team of ten (10) American specialists and seventy-five (75) Koreans. As the survey progressed and there was less need for personnel, the survey team has been reduced to six water resources specialists provided under

PASA arrangements with the U.S. Bureau of Reclamation, one ground water geologist from the U.S. Geological survey, and fifty Koreans. During fiscal year 1971, this project will continue to finance PASA services for the American professionals and will also finance the training of eight participants as listed in Annex B, attached hereto.

Financing of this project by AID is scheduled to terminate in fiscal year 1971.

II. SPECIFIC DESCRIPTION

The Han River Basin Survey is to culminate in a long-range plan for the development of the water resources of the Basin. The plan, to be outlined in technical reports, will include a summary of the studies made, conclusions regarding possible development, and a recommended plan of action. The components of the study include: (1) irrigation, (2) navigation, (3) power, (4) municipal and industrial water, (5) ground water, (6) pollution control, (7) flood control, (8) recreation, and (9) watershed development.

An important objective of this project is institutional building. Water resources development is a long-range proposition, and to be effective, the planning and development must be a continuing endeavor. After the survey of the Han River Basin has been completed, there will be a well-trained group of Korean engineers and technicians who can continue the work, not only in the Han River but in other basins. Surface water and ground water observation networks with crews trained to gather data and analyze it have also been established.

In December 1966 a preliminary report on the Soyang and Chungju dams was completed which resulted in plans for construction of high dams more feasibly at both sites in lieu of the lower elevation dams previously considered. The Soyang dam is now under construction, and a pre-feasibility study for erection of the Chungju dam has been completed under Korean Government auspices.

A final report on the water resources of the Anyang Chon was prepared in 1969. It covers the use of existing ground water in an industrial area and outlines the possible future ground water potential of the area. The Anyang Chon is one of three pilot areas selected to demonstrate the kind of investigations needed in the three major types of water bearing formation found in the Han River Basin. Two other areas are in the vicinity of Ichon and Tanyang.

This project is continuing to finance a PASA team provided by the U.S. Bureau of Reclamation (BUREC) to conduct the survey. At present, the team is composed of a Project Engineer, hydrologist, soil scientist, flood and navigation engineer, design engineer, and an economist. Also under this project, the U.S. Geological Survey (USGS) is providing PASA services of a ground water geologist to assist with the Han River Basin Survey.

In FY 1971, eight participants under this project are being financed for training in water and sewage treatment plant operations, water resources planning, and dam design.

III. U.S. CONTRIBUTIONS

The United States Government (through the Agency for International Development) will provide the funds specified in Annex B to this Project Agreement. These funds provide for the services of BUREC and USGS personnel during FY 1971, and for participant training. U.S. financing of this project terminates in fiscal year 1971.

IV. ROKG CONTRIBUTIONS

1. As soon as Won funds are approved by the National Assembly, this Project Agreement will be amended to include the Won contribution to the project, including Trust Funds for logistics and administrative support of the U.S. technicians assigned to the project.

2. The ROKG will arrange that the U.S. personnel provided for by this document, and their dependents, will be exempt from all requirements for customs duties and import taxes on personal property (including motor vehicles) and household goods; and from any income and social security taxes assessed by the ROKG or its political sub-divisions. If not so exempted, the ROKG shall pay directly all costs thereof from other than counterpart funds or funds provided by the U.S. Government.

3. The ROKG will provide through its budget sufficient local currency to cover necessary in-country transport, licensing, installation and maintenance costs of all equipment and supplies financed by AID under this project. The ROKG will make proper and timely installation and use of equipment or material furnished this project.

4. The ROKG will provide suitable office space, utilities (including telephones), usual office furniture, and salaries of Korean administrative and secretarial personnel necessary to support execution of the project.

5. The ROKG assures that full-time qualified Korean counterparts will be either in training or working closely with U.S. technicians on the project, and that these counterparts will be available when considered necessary by the USAID. These counterpart services will be entirely financed by the ROKG from other than Trust Funds.

6. The ROKG agrees to finance from its regular budget, all costs of international transportation for the participants listed in Annex B to this document.

7. The ROKG assures that the Koreans trained under this project, either on-the-job or under the AID participant program, will be retained and assigned to positions suiting their capabilities so that the knowledge gained may be applied to the continuing benefit of the project.

V. SPECIAL PROVISIONS

The Ministry of National Construction (MONC) of the ROKG, through the Korea Water Resources Development Corporation, shall be administratively responsible for this agreement on the part of the Government of the Republic of Korea.

The Chief, Industry and Engineering Division, USAID/Korea, shall be the official responsible on the part of the USAID/Korea for the implementation of this activity.

It is agreed that U.S. Government excess property may be provided for this project pursuant to pertinent U.S. Government laws, regulations and policies, as amended from time to time.

In addition, it is agreed that any U.S. Government excess property acquired by the ROKG for this project will be subject to the terms and conditions set forth in pertinent excess property transfer agreements between AID and the ROKG.

All property procured by AID under PIO/C 489-609-0-60114, PIO/T 489-609-2-60027, and other authority, for use in achieving the purposes of the project will be titled to the Korea Water Resources Development Corporation through the Ministry of Construction, at the completion of the project so that it may be used in the continuing work of water resources development of Korea for which it was originally intended. A list of the property is attached Annex D.

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	IMPLEMENTATION SCHEDULE 1st HALF FY71 JASOND	2nd HALF FY 71 JFMAMJ
	I. PASA		
	A. Personnel		
$231,800	BUREC PASA		
	Project Engineer	XXXXXX	XXXXXX
	Hydrologist	XXXXXX	XXXXXX
	Soil Scientist	XXXXXX	
	Flood and Navigation Engineer	XXXXXX	
	Design Engineer	XXXXXX	
	Economist	XXXXXX	XX
38,000	USGS PASA		
	Ground Water Geologist	XXXXXX	XX
$269,800	Total PASA Obligations		

For the Cooperating Country or Agency

SIGNATURE DATE

TITLE

For the Agency for International Development

SIGNATURE DATE

TITLE

PROJECT CONTRACTOR NAME: ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

489-11-250 609

609 1002

WATER RESOURCES DEVELOPMENT

7 16

2

ANNEX B (Continued)

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM				IMPLEMENTATION SCHEDULE 2nd HALF FY 71 JULY-DEC	1st HALF FY 72 JANUARY	2nd HALF FY 72 JULY-DEC
	II. PARTICIPANT TRAINING						
	Subject to the selection of suitable participants and the availability of appropriate training programs, the U.S. will finance the following participant training:						
	Field	Man Mos. Each	No.	Train. Area			
$27,000	Water Works and Sewage Treatment Plant Mgmt.	8	5	USA	XXX	XXXXXXX	
11,800	Water Resources, Academic and On-the-Job Training	9	2	USA	XXX	XXXXXXX	X
7,700	Field Engineering - Dam Design	12	1	USA	XXX	XXXXXXX	XXXXX
$46,500							

For the Cooperating Government or Agency

SIGNATURE: GAVE

TITLE:

For the Agency for International Development

SIGNATURE:

TITLE:

DATE:

PROGRAM FUNDING SID
UNITED STATES AID
FY 1969
CONTRIBUTING AGENCY

B.

ECONOMIC PLANNING BOARD

MINISTRY OF ECONOMIC PLANNING
THE REPUBLIC OF KOREA

489-11-250-604

Agreement No. 609-1002

WATER RESOURCES DEVELOPMENT

Original

Revision No. 2

ANNEX B

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	IMPLEMENTATION SCHEDULE 1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ
	III. IMPLEMENTATION		
	The PASA personnel listed above, in collaboration with their Korean counterparts, will carry out the following tasks. The work will be in progress or accomplished during the approximate periods shown at the right:		
	1. Continue operation of stream gage net-work; and turn the operation over to Korean control.	XXXXXX	XXXX
	2. Analyze and correlate assembly hydrologic data, and draft a hydrology appendix to the project final report;	XXXXXX	X
	3. Analyze assembled land resources data, and draft land classification appendix to the project final report;	XXXXXX	
	4. Analyze and correlate assembled power system data, and draft a power appendix for the final report;	XXXXXX	
	5. Analyze and correlate assembled flood control data and prepare flood control appendix to final report.	XXXXXX	
	6. Continue Seoul-Inchon barge waterway studies, and studies of navigation of the Han River upstream from Seoul; and prepare draft of navigation appendix.	XXXXXX	

For the Cooperating Government or Agency

SIGNATURE: _____ DATE: _____

TITLE: _____

For the Agency for International Development

SIGNATURE: _____ DATE: _____

TITLE: _____

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

WATER RESOURCES DEVELOPMENT

489-11-250 609

609-1002

Page 2

ANNEX B (Continued)

U.S. CONTRIBUTIONS			IMPLEMENTATION SCHEDULE 1st HALF FY 71 JASOND	IMPLEMENTATION SCHEDULE 2nd HALF FY 71 JFMAMJ
	$ Amount Obligated Herein	ITEM		
		III. IMPLEMENTATION (Continued)		
		7. Continue layouts and cost estimates for irrigation systems and complete cost estimates for all features of project.	xxxxx	
		8. Analyze and correlate assembled design and cost estimate data, and draft a design and estimates appendix for the final report.	xxxxxx	x
		9. Complete economic base studies, refine projections of population, GNP, and future water use, and assemble data for agricultural economics, irrigation benefits, and industrial water use and value;	xxxxxx	
		10. Analyze and correlate assembled economic data, and draft economic appendices for the final report;	xxxxxx	x
		11. Continue geologic mapping and stream and well measurements in connection with ground water investigations;	xxxxxx	
		12. Continue detailed studies of second and third pilot areas for ground water investigations;	xxxxxx	
		13. Analyze and correlate assembled ground water data, and draft a ground water appendix for the project final report;	xxxxxx	x

For the Cooperating Government or Agency
SIGNATURE _____ DATE _____
TITLE _____

For the Agency for International Development
SIGNATURE _____ DATE _____
TITLE _____

AID 1330-1A (5-63)
PROAG CONTINUATION SHEET
ANNEX B

PROJECT AGREEMENT BETWEEN AID AND ECONOMIC PLANNING BOARD
AN AGENCY OF THE GOVERNMENT OF THE REPUBLIC OF KOREA

1. Project/Activity No. 489-11-250-609
2. Agreement No. 609-1002
3. Project/Activity Title WATER RESOURCES DEVELOPMENT

2. ☐ Original or Revision No. 2

ANNEX B (Continued)

U.S. CONTRIBUTIONS

$ Amount Obligated Herein	ITEM	IMPLEMENTATION SCHEDULE 1st HALF FY 71 JASOND	IMPLEMENTATION SCHEDULE 2nd HALF FY 71 JFMAMJ
	III. IMPLEMENTATION (Continued)		
	14. Continue intensive training of Korean specialists in the use of equipment, compilation and analysis of water resources data, water resources planning and engineering, and other important aspects of water resources investigations.	XXXXXX	XXXX
	15. Prepare drafts of appendices to final report pertaining to General Information, Plan Formulation, Engineering Geology, Water Supply, Water Law, Fish and Wild-life, Recreation, and Pollution control considerations.	XXXXXX	
	16. Prepare a draft of a summary project report setting forth the objectives of the project the work accomplished, the findings and conclusions and the recommendations for water resources development.	X	XX
	17. Participate in review, final editing and presentation of report to ROK Government.		XXXX

For the Cooperating Government or Agency

SIGNATURE: DATE:

TITLE:

For the Agency for International Development

SIGNATURE: DATE:

TITLE:

AID 1020-17 (9-68) PROAG COUNTERPART FUNDS

PROJECT CONTROL AGENCY: ECONOMIC PLANNING BOARD

COUNTRY: THE REPUBLIC OF KOREA

PROJECT NO. 489-11-250-309

PROJECT TITLE: WATER RESOURCES DEVELOPMENT

PAGE 11 OF 16 PAGES

Page 2

ANNEX C

ROKG CONTRIBUTIONS

Estimated Won Provided (Dollar Equiv.)	Contributions to be made and/or actions to be carried out by ROKG	1st HALF FY 71 JASOND	2nd HALF FY 71 JFMAMJ	1st HALF FY 72 JASOND
	I. LOGISTICS AND ADMINISTRATIVE SUPPORT As soon as approved by the National Assembly, Won from the Trust Fund account will be made available to provide certain logistics and administrative support for PASA technicians working on the project. This Project Agreement is to be revised to incorporate the Trust Fund budget.	XXXXXX	XXXXXX	
	II. PARTICIPANT TRAINING The ROKG will provide from its regular budget all costs incident to the international travel of the participants listed in Annex B of this Project Agreement.	XXXXXX	XXXXXX	
	III. ROKG BUDGETARY SUPPORT This Project Agreement is to be amended in the future to incorporate the Won contribution to the project by the ROKG, as soon as the ROKG budget for CY 1971 has been approved by the National Assembly.	XXXXXX	XXXXXX	

For the Cooperating Government or Agency

SIGNATURE _____ DATE _____

TITLE _____

For the Agency for International Development

SIGNATURE _____ DATE _____

TITLE _____

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

489-11-250 609

609-1002

NATURAL RESOURCES DEVELOPMENT

PAGE 12 OF 16 PAGES

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ANNEX D

EQUIPMENT TO BE TURNED OVER TO ROKG UPON COMPLETION OF PROJECT

	Item	Type or Model	Serial No. or Model No.	Quantity
1.	Chevrolet	4 wheel drive carryall K1416 Model	License No. 1334	1
2.	Chevrolet	"	License No. 1335	1
3.	Chevrolet	"	License No. 1336	1
4.	Chevrolet	"	License No. 1337	1
5.	Chevrolet	"	License No. 1338	1
6.	Chevrolet	"	License No. 1341	1

General Office Equipment

1.	Adding Machine	Electric (Monroe)	169422	1
2.	Adding Machine	" "	169423	1
3.	Adding Machine	" "	169424	1
4.	Adding Machine	" (Remington)	1160474	1
5.	Adding Machine	" "	719071	1
6.	Calculator	" (Monroe)	8F-B060698	1
7.	Calculator	" "	8F-B157223	1
8.	Calculator	" (Marchant)	504731	1
9.	Calculator	" (Friden)	454346	1
10.	Typewriter	" (Olivetti)	16EE-9766629	1
11.	Typewriter	" "	16EE-9766630	1
12.	Typewriter	Manual "	15EE-9764504	1
13.	Typewriter	" "	15EE-9764509	1
14.	Copy holder	Typists		3
15.	Trimmer	Paper cutter		1

For the Cooperating Government Agency

SIGNATURE _____ DATE _____

TITLE _____

For the Agency for International Development

SIGNATURE _____ DATE _____

TITLE _____

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

489-11-250 608

609 1002

NATURAL RESOURCES DEVELOPMENT

ANNEX D (Continued)

EQUIPMENT TO BE TURNED OVER TO ROKG UPON COMPLETION OF PROJECT (Cont'd)

Item	Type or Model	Serial No. or Model No.	Quantity
Drafting & Miscellaneous Office Equipment			
1. Divider	Proportional		1
2. Drafting Machine	36" x 48"		3
3. Feeder (for drinking water)	Chlorine		1
4. Light	Desk		12
5. Lettering Set	Draftsman		2
6. Microscope	Binocular	AVB-73	1
7. Illuminator	Microscope		1
8. Planimeter	Polar		4
9. Sliderule	20" polyphase		1
10. Stereoscope	Table mirror		1
11. Stereoscope	Folding, pocket		4
12. Color Charts	Soil		2
Surveying Equipment			
1. Level Surveyor's	Dumpy	89761	1
2. Level Surveyor's	Dumpy	63262	1
3. Level, hand	Abney		7
4. Transit surveyor's	20 second	562015	1
5. Transit surveyor's	20 second	51927	1
6. Transit surveyor's	20 second	512910	1
7. Transit, surveyor's	30 second	63129	1
8. Transit, pocket	Type II		4

For the Executing Government or Agency

SIGNATURE: _____ DATE: _____

TITLE: _____

For the Agency for International Development

SIGNATURE: _____ DATE: _____

TITLE: _____

PROAG CONTINUATION SHEET

ANNEX D

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

489-11-250 609

609-1002

WATER RESOURCES DEVELOPMENT

Page 14 of 16 Pages

Original or Revision No. 2

ANNEX D

EQUIPMENT TO BE TURNED OVER TO ROKG UPON COMPLETION OF PROJECT (Continued)

Item	Type or Model	Serial No. or Model No.	Quantity
Hydrologic Equipment			
1. Recorder, Water Stage	A 35 (L & S)	43265	1
2. Recorder, Water Stage	A 35 "	43266	1
3. Recorder, " "	A 35 "	43267	1
4. Recorder, " "	A 35 "	43268	1
5. Recorder, " "	A 35 "	43269	1
6. Recorder, " Level	FM "	43270	1
7. Recorder, " "	FM "	43271	1
8. Recorder, " "	FM "	43272	1
9. Recorder, " "	FM "	43273	1
10. Recorder, " "	FM "	43274	1
11. Recorder, " "	FM "	45768	1
12. Recorder, " "	FM "	45769	1
13. Recorder, " "	FM "	45770	1
14. Recorder, " "	FM "	45771	1
15. Recorder, " "	FM "	45772	1
16. Current Meter	Pygmy (Arline)	R-553	1
17. Current "	Pygmy "	R-554	1
18. Current " HV	Type AA "	R-620	1
19. Current Meter, HV	Type AA "	R-621	1
20. Current Meter, HV	Type AA "	R-622	1
21. Current Meter, HV	Type AA "	R-623	1
22. Current " LV	Type AA "	R-632	1
23. Current " LV	Type AA "	R-633	1
24. Sounding Machine	Type A55 (USGS)		3
25. Sounding "	Type E56 "		3
26. Sounding "	Type E53 "		3
27. Crane, Sounding	Type E "		3
28. Crane, Sounding	Type A (Rickley)		3
29. Truck, sounding crane	Type E (USGS)		1
30. Truck, sounding crane	Type E "		2

For the Cooperating Government Agency

SIGNATURE _____ DATE _____

TITLE _____

For the Agency for International Development

SIGNATURE _____ DATE _____

TITLE _____

AID DOCUMENT NO. 15

PROJECT DATA SHEET

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

1. Project Number 489-11-250-609

2. Approved Rev. 609-1002

3. [ ] Original or Revision No. 2

NATURE RESOURCES DEVELOPMENT

ANNEX D

EQUIPMENT TO BE TURNED OVER TO ROKG UPON COMPLETION OF PROJECT (Continued)

Item	Type or Model	Serial No. or Model No.	Quantity
Hydrologic Equipment (Continued)			
31. Boat outfit, stream flow		W-111000	3
32. Power drive motor	Type E 53(USGS)		3
33. Counter weight	Type E Crane (USGS)		3
34. Weights, sounding	Type C (Ball Brass)		7
35. Reel, sounding	3000 ft. cap. (USGS)		1
36. Solu Bridge	Portable (Beckman)	58345	1
37. Conductivity Cell	Portable Bridge "		1
38. Bed material sampler	BM-54		1
39. Suspended Sediment Sampler	D-43		1
40. Suspended Sediment sampler	D-48		2
41. Suspended Sediment sampler	DH-48		2
42. Outboard motor	20HP (Johnson)	2828020	1
43. Outboard motor	20HP "	2828021	1
44. Outboard motor	20HP "	2828022	1
45. Outboard motor	20HP "	2828023	1
46. Well Measuring gage	Electric		1
47. Repair kit	Hydro. Equip.		2
1. Soil Core Sampler	USBR		1
2. Miscellaneous Soil Tools			24
3. Electric Generators	2500 Watts (Sommer)		1
4. Pump	Submersible (Peda)		1
5. Tubing, Plastic	1¼" dia.		200'
6. Well screen			1

For the Cooperating Government or Agency

SIGNATURE: DATE:

TITLE:

For the Agency for International Development

SIGNATURE: DATE:

TITLE:

PROAG COMPILATION SHEET

ANNEX D

ECONOMIC PLANNING BOARD

THE REPUBLIC OF KOREA

WATER RESOURCES DEVELOPMENT

489-11-250-609

609-1002

Revision No. 2

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AID 1020-18(5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART I – WORK SCHEDULE	1. COOPERATING COUNTRY Republic of Korea	2. PROJECT TITLE Water Resources Development	3. PROJECT NUMBER 489-11-250-609	4. DATE (Month, Day, Year) 4/15/70
5. RESPONSIBLE PROJECT COORDINATOR Mr. Bruce Johnson	6. RESPONSIBLE COOPERATING COUNTRY AGENCY Ministry of National Construction (MONC)	7. COOPERATING SPONSOR	☐ DRAFT ☒ ORIGINAL ☐ REVISION NO.	

8. NO.	9. DESCRIPTION OF MAJOR ACTIONS OR STEPS	10. PRIMARY ACTION AGENT	11. TARGET DATES: PREPARATORY ACTION	PHYSICAL START	PHYSICAL COMPLETION	12. TIME SPAN (Optional): FY- 70				FY- 71				FY-				FY-				FY-				FY-			
1.	Preparation of Project Agreement to continue assistance to the Korean Government in its efforts to develop Korea's water resources. Under the project, a comprehensive and carefully evaluated survey is being conducted of the Han River Basin by a PASA Team from the U.S. Bureau of Reclamation and a groundwater geologist from the U.S. Geological Survey with the assistance of 50 Koreans.	M/CC	9/69	10/69	12/69	x	x																						
2.	Preparation of PIO/Ts to continue existing PASAs with BuRec and U.S. Geological Survey; AID/W to negotiate PASAs upon receipt of relevant PIO/Ts. PASA funds were obligated under interim Project Agreement early in FY 70.	M/CC/W	7/69	7/69	7/69	x																							
3.	Screening and selection of participants to be trained under the project, and preparation of related PIO/Ps to finance training in groundwater activities, field engineering, and waterworks management.	M/CC	1/70	3/70	6/70			x	x																				
4.	Project tentatively scheduled to terminate at the close of FY 71.																												

489-0609 (6)
PD-AAD-437

AID 1020-19(5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART II – SELECTED OUTPUT INDICATORS	1. COOPERATING COUNTRY Republic of Korea	2. PROJECT TITLE Water Resources Development	3. PROJECT NUMBER 489-11-250-609	4. DATE (Month, Day, Year) 4/15/70	☐ DRAFT ☒ ORIGINAL ☐ REVISION NO.

5. CODE (For AID/W use only)	6. IDENTIFICATION OF OUTPUT AND SPECIFIC TARGETS	7. TIME PHASED ACCOMPLISHMENT							
		TO DATE	FY- 70	FY- 71	FY-	FY-	FY-	FY-	PROJECTED TOTAL
	Preparation of master plan for the orderly development of (1) the potential total water resources of the Han River Basin, including ground as well as surface water.	Continuing							
	Introduce modern multi-purpose, basin-wide investigative techniques.	Continuing							
	Train Koreans so that a well-qualified, professional cadre will be available to carry out the plans and recommendations resulting from the survey.	Continuing							
	Complete the review of all existing water resources development data relating to the Han River Basin by FY 71.	Continuing							
	Finalize studies of all physical features related to potential water resources development in the Basin, including hydrologic surveys and arable land classification by FY 71.	Continuing							
	Prepare an analysis of agricultural and other basic economic conditions relating to water development in the Han River area by FY 71.	Continuing							
	Formulate a long-range plan for the overall development of the water resources of the Han River Basin by FY 71.	Continuing							
	Prepare a final report and a set of technical appendices describing the plan and explaining the entire Han River Basin survey in detail, and recommending specific courses of action relating to irrigation, navigation, hydro-power, municipal and industrial water, ground water, pollution control, flood control, recreation, and fish and wildlife development by end of FY 71.	Continuing							

AID 1020-19(5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART II – SELECTED OUTPUT INDICATORS	1. COOPERATING COUNTRY Republic of Korea	2. PROJECT TITLE Water Resources Development	3. PROJECT NUMBER 489-11-250-609	4. DATE (Month, Day, Year) 4/15/70	[ ] DRAFT [X] ORIGINAL [ ] REVISION NO.

5. CODE (For AID/W use only)	6. IDENTIFICATION OF OUTPUT AND SPECIFIC TARGETS	7. TIME PHASED ACCOMPLISHMENT							
		TO DATE	FY- 70	FY- 71	FY-	FY-	FY-	FY-	PROJECTED TOTAL
	A total of 320 stream flow measurements have been made; and 93 water samples have been taken. Preliminary flood hydrology and reservoir operation studies have also been made.								
	Economic data for the Han River Basin have been collected and tabulated.								
	Farm survey and analyses were completed for 111 farms in 15 villages, and preliminary farm budgets were completed.								
	Cost/benefit analyses were computed for irrigation, municipal and industrial water supply, flood control, power, and navigation, for use in the interim report.								
	Costs of irrigation systems, transmission lines, power plants, dams, and many other structures were estimated for comparative studies in the interim report. Economic analyses of alternate plans of development were also made.								
	In the power field, primary emphasis has been placed on evaluating other reports, studying load patterns, gathering load growth and economic data, studying the existing power system and estimating future power demands.								
	Investigate pollution, fish and wildlife and recreation aspects of water resources development in the Han River Basin.								
	Draft appendices on Korean Water Law and on general geology of the basin, for inclusion with the project final report.	Continuing							
	Continue intensive training of Korean specialists in the use of equipment, compilation and analysis of water resources data, water resources planning and engineering, and other important aspects of water resources investigations.	Continuing							

AID 1020-19(5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART II – SELECTED OUTPUT INDICATORS	1. COOPERATING COUNTRY	2. PROJECT TITLE	3. PROJECT NUMBER	4. DATE (Month, Day, Year)	
	Republic of Korea	Water Resources Development	489-11-250-609	4/15/70	☐ DRAFT ☒ ORIGINAL ☐ REVISION NO.

5. CODE (For AID/W use only)	6. IDENTIFICATION OF OUTPUT AND SPECIFIC TARGETS	7. TIME PHASED ACCOMPLISHMENT							
		TO DATE	FY- 70	FY- 71	FY-	FY-	FY-	FY-	PROJECTED TOTAL
	A preliminary report on two proposed dams at Soyang and Chungju was completed in 1968 which recommended high dams at both sites. Nearly 100 preliminary layouts and cost estimates have also been made for other dams and potential features of the Basin Plan. Interim report completed in 1968 Surficial geologic mapping, well and spring inventories, pumping tests, and geophysical investigations are in progress to research ground water. A draft of a preliminary report on ground water resources in an industrial area near the Anyong River has been completed. Several brief reports on special ground water problems have also been reported. Field surveys were completed on the potential benefits to be derived from flood control measures and office analyses of the collected data have been made. Preliminary studies of the navigation potential of the lower Tan River were prepared. Arable areas of 56,000 hectares of upland and tideland are being investigated to determine their suitability for irrigation agriculture. Field engineering forces have (a) completed topographic mapping of 55 square kilometers, (b) taken 39 damsite profiles, (c) made materials investigations at five damsites, and geologic inspections at 23 damsites, and (d) performed other field survey work. Ten stream gauges and two rain gauges have been installed.								

AID 1020-19(5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART II – SELECTED OUTPUT INDICATORS	1. COOPERATING COUNTRY	2. PROJECT TITLE	3. PROJECT NUMBER	4. DATE (Month, Day, Year)	
	Republic of Korea	Water Resources Development	439-11-250-609	4/15/70	☐ DRAFT ☒ ORIGINAL ☐ REVISION NO.

5. CODE (For AID/W use only)	6. IDENTIFICATION OF OUTPUT AND SPECIFIC TARGETS	7. TIME PHASED ACCOMPLISHMENT							
		TO DATE	FY- 70	FY- 71	FY-	FY-	FY-	FY-	PROJECTED TOTAL
	Complete geologic mapping for ground water	Continuing							
	Prepare appendices on general information, plan formulation, hydrology, land resources, designs and estimates, flood control, navigation, power, agricultural economics, general economics, ground water, geology, M&I water, water law, fish and wildlife, recreation, pollution, etc.	Continuing							
	Prepare final main report	Continuing							

AID 1020-20 (5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART III – PERSONNEL REQUIREMENTS	1. COOPERATING COUNTRY Republic of Korea	2. PROJECT TITLE Water Resources Development	3. PROJECT NO. 489-11-250-609	4. DATE (Month, Day, Year) 4/15/70	☐ DRAFT ☒ ORIGINAL ☐ REVISION NO.

5. CATEGORY OF PERSONNEL		6. TIME PHASED REQUIREMENTS FY- 70 MM	FY- 70 FUNDS	FY- 71 MM	FY- 71 FUNDS	FY- 72 MM	FY- 72 FUNDS	FY- MM	FY- FUNDS	FY- MM	FY- FUNDS	7. TOTAL REQUIREMENTS MY	TOTAL REQUIREMENTS FUNDS
A. UNITED STATES CONTRIBUTION (Funds shown in U.S. $ Thousands)													
1. AID DIRECT HIRE													
a. U.S.													
b. Local													
c. Third Country													
2. PASA	a. Obligations	96	303.2	52	253.7							13.3	556.9
	b. Expenditures		250.0		200.0		106.9						
3. AID CONTRACTOR EMPLOYEES	a. Obligations												
	b. Expenditures												
4. AID INDIVIDUALLY CONTRACTED EMPLOYEES													
5. BORROWER/GRANTEE CONTRACT EMPLOYEES													
6.													
B. COOPERATING COUNTRY CONTRIBUTION (Funds shown in equivalent U.S. $ Thousands)													
1. CENTRAL GOVERNMENT			207.4		177.0								384.4
2. REGIONAL, STATE PROVINCIAL OR LOCAL GOVT.													
3.													
4.													
C. OTHER DONORS OR COOPERATING SPONSORS CONTRIBUTION (Funds shown in equivalent U.S. $ Thousands)													
1.													
2.													
3.													

Rate of exchange: U.S. $1 =

AID 1020-21 (5-67)

JOINT PROJECT IMPLEMENTATION PLAN PART IV – PARTICIPANT REQUIREMENTS	1. COOPERATING COUNTRY Republic of Korea	2. PROJECT TITLE Water Resources Development	3. PROJECT NUMBER 480-11-250-609	4. DATE (Month, Day, Year) 4/15/70	[ ] DRAFT [X] ORIGINAL [ ] REVISION NO.

5. FIELD OF SPECIALIZATION	6. NO.	7. 1/ TYPE	8. PLANNED DEPARTURE DATE	9. DURATION OF TRAINING	10. FUND REQUIREMENTS (Shown in U.S. $ Thousands or equivalent) U.S. FY-70	U.S. FY-71	U.S. FY-	U.S. FY-	U.S. FY-	U.S. TOTAL	COOPERATING COUNTRY FY-70	COOPERATING COUNTRY FY-71	COOPERATING COUNTRY FY-	COOPERATING COUNTRY FY-	COOPERATING COUNTRY FY-	COOPERATING COUNTRY TOTAL
Groundwater Activities	3	AU	7/70	6 Mos.	12.0						4.5					16.5
Field Engineering	3	AU	7/70	6 Mos.	12.0						4.5					16.5
Water Works Management	3	AU	8/70	8 Mos.	15.0						4.5					19.5
Water Works & Sewage Treatment Plant Management	7	AU	8/71	8 Mos.		39.2						10.5				49.7
Water Resources, Academic & On-the-job Training	2	AU	9/71	8 Mos.		11.2						3.0				14.2

1/ Indicate by combination of letters if participants are: 1st – A – AID Directly Financed; B – Contract Financed; or C – Cooperating Country Financed.
2nd – U – U.S. Training, T – Third Country Training or X – Combined U.S./Third Country Training

Rate of exchange:
U.S. $1 = ₩300