

CONFORMED COPY

CREDIT NUMBER 3568 AM

Development Credit Agreement

(Irrigation Development Project)

between

REPUBLIC OF ARMENIA

and

INTERNATIONAL DEVELOPMENT ASSOCIATION

Dated September 6, 2001

CREDIT NUMBER 3568 AM

DEVELOPMENT CREDIT AGREEMENT

AGREEMENT, dated September 6, 2001, between REPUBLIC OF ARMENIA (the Borrower) and INTERNATIONAL DEVELOPMENT ASSOCIATION (the Association).

WHEREAS the Borrower, having satisfied itself as to the feasibility and priority of the Project described in Schedule 2 to this Agreement, has requested the Association to assist in the financing of the Project; and

WHEREAS the Association has agreed, on the basis, inter alia, of the foregoing, to extend the Credit to the Borrower upon the terms and conditions set forth in this Agreement;

NOW THEREFORE the parties hereto hereby agree as follows:

#### ARTICLE I

##### General Conditions; Definitions

Section 1.01. The "General Conditions Applicable to Development Credit Agreements" of the Association, dated January 1, 1985 (as amended through October 6, 1999), with the modifications set forth below (the General Conditions), constitute an integral part of this Agreement:

(a) A new paragraph (12) is added to Section 2.01 to read as set forth below, and the existing paragraphs (12) through (14) of said Section are accordingly

renumbered as paragraphs (13) through (15):

"12. 'Participating Country' means any country that the Association determines meets the requirements set forth in Section 11 of Resolution No. 194 of the Board of Governors of the Association, adopted on April 8, 1999; and 'Participating Countries' means, collectively, all such countries.";

(b) The second sentence of Section 5.01 is modified to read:

"Except as the Borrower and the Association shall otherwise agree, no withdrawals shall be made: (a) on account of expenditures in the territories of any country which is not a Participating Country or for goods produced in, or services supplied from, such territories; or (b) for the purpose of any payment to persons or entities, or for any import of goods, if such payment or import, to the knowledge of the Association, is prohibited by a decision of the United Nations Security Council taken under Chapter VII of the Charter of the United Nations."

Section 1.02. Unless the context otherwise requires, the several terms defined in the General Conditions and in the Preamble to this Agreement have the respective meanings therein set forth and the following additional terms have the following meanings:

(a) "DIMA Enterprises" means the Drainage and Irrigation Management Agencies of the Borrower, established as autonomous regional or scheme-level operation and maintenance enterprises;

(b) "Dram" means the lawful currency of the Borrower;

(c) "Eligible Categories" means categories (1), (2), (3), (4) and (5) set forth in the table in Part A.1 of Schedule 1 to this Agreement;

(d) "Eligible Expenditures" means the expenditures for goods, works and services referred to in Section 2.02 (a) of this Agreement;

(e) "EMP" means the Environmental Management Plan for the Project, satisfactory to the Association, describing the environmental mitigation, monitoring and institutional measures for the Project;

(f) "PIP" means the Project Implementation Plan for the carrying out of the Project prepared and adopted by the Borrower, as the same may be amended from time to time with the agreement of the Association;

(g) "PIU" means the Project Implementation Unit established by the Borrower by Decree No. 577, dated December 15, 1994, or any successor thereto, for purposes of Project management;

(h) "Project Account" means the account to be opened by the Borrower in accordance with the provisions of Section 6.01 of this Agreement for purposes of making available its counterpart contribution to the financing of the Project;

(i) "Project Management Board" means the Project Management Board established by the Borrower by Decree No. 765, dated December 22, 1999, to provide policy guidance and oversight of Project implementation;

(j) "Project Management Report" means each report prepared in accordance with Section 4.02 of this Agreement;

(k) "Project Preparation Advance" means the project preparation advance granted by the Association to the Borrower pursuant to the letter agreement signed on behalf of the Association and on behalf of the Borrower on June 14, 2001;

(l) "SCWM" means the State Committee for Water Management of the Borrower

established by Decree No. 92, dated February 9, 2001;

(m) "Special Account" means the account referred to in Part B of Schedule 1 to this Agreement;

(n) "Technical Consultative Commission" means the Technical Consultative Commission established by Order No. 406, dated December 26, 2000, under the SCWM, to assess system-wide operation and maintenance requirements for dams;

(o) "WSA" means the Water Supply Agency of the Borrower to be established under the SCWM with responsibility for the operation and maintenance of all facilities supplying water from all major sources;

(p) "WUFs" means the Water User Federations to be established as autonomous associations of water users for the purposes of gradual assumption of operation and maintenance of primary and secondary irrigation infrastructure; and

(q) "WUCCs" means Water User Consumer Cooperatives, autonomous groups of water users to which tertiary irrigation infrastructure has been transferred.

## ARTICLE II

### The Credit

Section 2.01. The Association agrees to lend to the Borrower, on the terms and conditions set forth or referred to in the Development Credit Agreement, an amount in various currencies equivalent to nineteen million eight hundred thousand Special Drawing Rights (SDR 19,800,000).

Section 2.02. (a) The amount of the Credit may be withdrawn from the Credit Account in accordance with the provisions of Schedule 1 to this Agreement for expenditures made (or, if the Association shall so agree, to be made) in respect of the reasonable cost of goods, works and services required for the Project and to be financed out of the proceeds of the Credit.

(b) Promptly after the Effective Date, the Association shall, on behalf of the Borrower, withdraw from the Credit Account and pay to itself the amount required to repay the principal amount of the Project Preparation Advance withdrawn and outstanding as of such date and to pay all unpaid charges thereon. The unwithdrawn balance of the authorized amount of the Project Preparation Advance shall thereupon be canceled.

Section 2.03. The Closing Date shall be March 31, 2007, or such later date as the Association shall establish. The Association shall promptly notify the Borrower of such later date.

Section 2.04. (a) The Borrower shall pay to the Association a commitment charge on the principal amount of the Credit not withdrawn from time to time at a rate to be set by the Association as of June 30 of each year, but not to exceed the rate of one-half of one percent (1/2 of 1%) per annum.

(b) The commitment charge shall accrue: (i) from the date sixty (60) days after the date of this Agreement (the accrual date) to the respective dates on which amounts shall be withdrawn by the Borrower from the Credit Account or canceled; and (ii) at the rate set as of the June 30 immediately preceding the accrual date and at such other rates as may be set from time to time thereafter pursuant to paragraph (a) above. The rate set as of June 30 in each year shall be applied from the next date in that year specified in Section 2.06 of this Agreement.

(c) The commitment charge shall be paid: (i) at such places as the Association shall reasonably request; (ii) without restrictions of any kind imposed by, or in the territory of, the Borrower; and (iii) in the currency specified in this Agreement for the purposes of Section 4.02 of the General Conditions or in such other eligible currency or currencies as may from time to time be designated or selected

pursuant to the provisions of that Section.

Section 2.05. The Borrower shall pay to the Association a service charge at the rate of three-fourths of one percent (3/4 of 1%) per annum on the principal amount of the Credit withdrawn and outstanding from time to time.

Section 2.06. Commitment charges and service charges shall be payable semiannually on June 1 and December 1 in each year.

Section 2.07. (a) Subject to paragraphs (b), (c) and (d) below, the Borrower shall repay the principal amount of the Credit in semiannual installments payable on each June 1 and December 1 commencing December 1, 2011 and ending June 1, 2041. Each installment to and including the installment payable on June 1, 2021 shall be one percent (1%) of such principal amount, and each installment thereafter shall be two percent (2%) of such principal amount.

(b) Whenever: (i) the Borrower's per capita gross national product (GNP), as determined by the Association, shall have exceeded for three (3) consecutive years the level established annually by the Association for determining eligibility to access the Association's resources; and (ii) the Bank shall consider the Borrower creditworthy for Bank lending, the Association may, subsequent to the review and approval thereof by the Executive Directors of the Association and after due consideration by them of the development of the Borrower's economy, modify the repayment of installments under paragraph (a) above by: (A) requiring the Borrower to repay twice the amount of each such installment not yet due until the principal amount of the Credit shall have been repaid; and (B) requiring the Borrower to commence repayment of the principal amount of the Credit as of the first semiannual payment date referred to in paragraph (a) above falling six (6) months or more after the date on which the Association notifies the Borrower that the events set out in this paragraph (b) have occurred, provided, however, that there shall be a grace period of a minimum of five years on such repayment of principal.

(c) If so requested by the Borrower, the Association may revise the modification referred to in paragraph (b) above to include, in lieu of some or all of the increase in the amounts of such installments, the payment of interest at an annual rate agreed with the Association on the principal amount of the Credit withdrawn and outstanding from time to time, provided that, in the judgment of the Association, such revision shall not change the grant element obtained under the above-mentioned repayment modification.

(d) If, at any time after a modification of terms pursuant to paragraph (b) above, the Association determines that the Borrower's economic condition has deteriorated significantly, the Association may, if so requested by the Borrower, further modify the terms of repayment to conform to the schedule of installments as provided in paragraph (a) above.

Section 2.08. The currency of the United States of America is hereby specified for the purposes of Section 4.02 of the General Conditions.

### ARTICLE III

#### Execution of the Project

Section 3.01. (a) The Borrower declares its commitment to the objectives of the Project as set forth in Schedule 2 to this Agreement, and, to this end, shall carry out the Project with due diligence and efficiency and in conformity with appropriate financial, administrative, engineering, irrigation and environmental practices, and shall provide, promptly as needed, the funds, facilities, services and other resources required for the Project.

(b) Without limitation upon the provisions of paragraph (a) of this Section and except as the Borrower and the Association shall otherwise agree, the Borrower shall carry out the Project in accordance with the Implementation Program set forth in Schedule 4 to this Agreement.

Section 3.02. Without limitation upon any of its obligations under Section 3.01

of this Agreement, the Borrower shall: (a) maintain the Project Account referred to in Section 6.01 of this Agreement, and shall replenish said account promptly every quarter with sufficient funds to enable the Borrower to meet its obligations under Section 3.01 of this Agreement for such period; (b) use the amount in said Project Account for financing the Borrower's contribution to Project expenditures; and (c) ensure that sufficient annual allocations will be made in the Borrower's budget for the Borrower's counterpart contribution to the costs of the Project.

Section 3.03. Except as the Association shall otherwise agree, procurement of the goods, works and consultants' services required for the Project and to be financed out of the proceeds of the Credit shall be governed by the provisions of Schedule 3 to this Agreement.

Section 3.04. For the purposes of Section 9.06 of the General Conditions and without limitation thereto, the Borrower shall:

(a) prepare, on the basis of guidelines acceptable to the Association, and furnish to the Association not later than six (6) months after the Closing Date or such later date as may be agreed for this purpose between the Borrower and the Association, a plan for the future operation of the Project; and

(b) afford the Association a reasonable opportunity to exchange views with the Borrower on said plan.

#### ARTICLE IV

##### Financial Covenants

Section 4.01. (a) The Borrower shall maintain a financial management system, including records and accounts, and prepare financial statements in a format acceptable to the Association, adequate to reflect the operations, resources and expenditures related to the Project.

(b) The Borrower shall:

(i) have the records, accounts and financial statements referred to in paragraph (a) of this Section and the records and accounts for the Special Account for each fiscal year audited, in accordance with auditing standards acceptable to the Association, consistently applied, by independent auditors acceptable to the Association;

(ii) furnish to the Association as soon as available, but in any case not later than six (6) months after the end of each such year: (A) certified copies of the financial statements referred to in paragraph (a) of this Section for such year as so audited; and (B) an opinion on such financial statements, records and accounts and report of such audit, by said auditors, of such scope and in such detail as the Association shall have reasonably requested; and

(iii) furnish to the Association such other information concerning such records and accounts, and the audit thereof, and concerning said auditors, as the Association may from time to time reasonably request.

(c) For all expenditures with respect to which withdrawals from the Credit Account were made on the basis of Project Management Reports or statements of expenditure, the Borrower shall:

(i) maintain or cause to be maintained, in accordance with paragraph (a) of this Section, records and separate accounts reflecting such expenditures;

(ii) retain, until at least one (1) year after the Association has received the audit report for the fiscal year in which the last withdrawal from the Credit Account was made, all records

(contracts, orders, invoices, bills, receipts and other documents) evidencing such expenditures;

(iii) enable the Association's representatives to examine such records; and

(iv) ensure that such records and accounts are included in the annual audit referred to in paragraph (b) of this Section and that the report of such audit contains a separate opinion by said auditors as to whether the Project Management Reports or statements of expenditure submitted during such fiscal year, together with the procedures and internal controls involved in their preparation, can be relied upon to support the related withdrawals.

Section 4.02. (a) Without limitation upon the provisions of Section 4.01 of this Agreement, the Borrower shall carry out a time-bound action plan acceptable to the Association for the strengthening of the financial management system referred to in paragraph (a) of said Section 4.01 in order to enable the Borrower, not later than December 31, 2002, or such later date as the Association shall agree, to prepare quarterly Project Management Reports, acceptable to the Association, each of which:

(i) (A) sets forth actual sources and applications of funds for the Project, both cumulatively and for the period covered by said report, and projected sources and applications of funds for the Project for the six-month period following the period covered by said report; and (B) shows separately expenditures financed out of the proceeds of the Credit during the period covered by said report and expenditures proposed to be financed out of the proceeds of the Credit during the six-month period following the period covered by said report;

(ii) (A) describes physical progress in Project implementation, both cumulatively and for the period covered by said report; and (B) explains variances between the actual and previously forecast implementation targets; and

(iii) sets forth the status of procurement under the Project and expenditures under contracts financed out of the proceeds of the Credit, as at the end of the period covered by said report.

(b) Upon the completion of the action plan referred to in paragraph (a) of this Section, the Borrower shall prepare, in accordance with guidelines acceptable to the Association, and furnish to the Association not later than 45 days after the end of each calendar quarter a Project Management Report for such period.

Section 4.03. (a) The Borrower shall have: (i) the records, accounts and financial statements of the WSA for each fiscal year audited, in accordance with auditing standards acceptable to the Association, consistently applied, by independent auditors acceptable to the Association; and (ii) the balance sheets of each DIMA Enterprise for the calendar year ending December 31, 2001, audited not later than March 31, 2002, in accordance with auditing standards acceptable to the Association, consistently applied, by independent auditors acceptable to the Association.

(b) The Borrower shall: (i) furnish to the Association, as soon as available, but in any case not later than six (6) months after the end of each fiscal year: (A) certified copies of the financial statements of the WSA referred to in paragraph (a) above for such year as so audited; (B) an opinion on such financial statements, records and accounts and report of such audit, by said auditors, of such scope and in such detail as the Association shall reasonably request; and (ii) shall furnish to the Association: (A) certified copies of balance sheets of each DIMA Enterprise for the calendar year ending December 31, 2001, as so audited; and (B) an opinion on such balance sheets and report of such audit, by said auditors, of such scope and in such detail as the Association shall have reasonably requested.

(c) The Borrower shall furnish to the Association such other information concerning such records and accounts, and the audit thereof, and concerning said

auditors, as the Association may from time to time reasonably request.

Section 4.04. The Borrower shall take all necessary measures, including but not limited to improvement of water management and distribution systems, to ensure that collected water charges shall cover not less than 33 percent of the operational and maintenance costs of the Borrower's irrigation infrastructure (hereinafter referred to as "operational costs" for the purposes of this Section) by December 31, 2002; not less than 44 percent of the operational costs by December 31, 2003; not less than 56 percent of the operational costs by December 31, 2004; not less than 70 percent by December 31, 2005; and not less than 85 percent by December 31, 2006.

#### ARTICLE V

##### Remedies of the Association

Section 5.01. Pursuant to Section 6.02 (1) of the General Conditions, the following additional event is specified, namely, that the PIP shall have been amended, suspended, abrogated or waived without the Association's prior consent.

Section 5.02. Pursuant to Section 7.01 (h) of the General Conditions, the following additional event is specified, namely, that the event specified in Section 5.01 of this Agreement shall occur.

#### ARTICLE VI

##### Effective Date; Termination

Section 6.01. The following event is specified as an additional condition to the effectiveness of the Development Credit Agreement within the meaning of Section 12.01 (b) of the General Conditions, namely, that the Borrower has opened the Project Account in Drams in a commercial bank acceptable to the Association and has deposited into said Account an initial amount equivalent to \$250,000.

Section 6.02. The date ninety (90) days after the date of this Agreement is hereby specified for the purposes of Section 12.04 of the General Conditions.

#### ARTICLE VII

##### Representative of the Borrower; Addresses

Section 7.01. The Minister of Finance and Economy of the Borrower is designated as representative of the Borrower for the purposes of Section 11.03 of the General Conditions.

Section 7.02. The following addresses are specified for the purposes of Section 11.01 of the General Conditions:

For the Borrower:

Ministry of Finance and Economy  
1, Government House  
Republic Square  
Yerevan 375010  
Republic of Armenia

Telex:                      Facsimile:  
243331 LADA SU              (3742) 151-154

For the Association:

International Development Association  
1818 H Street, N.W.  
Washington, D.C. 20433



WUFs under Part C  
of the Project

(4)	Consultants' services and training	3,200,000	100% of foreign expenditures, 100% of local expenditures for consulting firms, and 70% of local expenditures for individual consultants
(5)	Incremental operating cost of the WSA, DIMA Enterprises and PIU, including audit costs	440,000	80% of expenditures incurred until December 31, 2002, 60% of expenditures incurred until December 31, 2003, 40% of expenditures incurred until December 31, 2004, 20% of expenditures incurred until December 31, 2005 and 0% thereafter
(6)	Refunding of Project Preparation Advance	910,000	Amount due pursuant to Section 2.02 (b) of this Agreement
(7)	Unallocated	710,000	
	TOTAL	19,800,000	

2. For the purposes of this Schedule:

(a) the term "foreign expenditures" means expenditures in the currency of any country other than that of the Borrower for goods or services supplied from the territory of any country other than that of the Borrower;

(b) the term "local expenditures" means expenditures in the currency of the Borrower or for goods or services supplied from the territory of the Borrower; and

(c) the term "Incremental operating costs of the WSA, DIMA Enterprises, and PIU" means operating expenditures incurred by the WSA, DIMA Enterprises and PIU on account of management of Project implementation for communications, utilities, printing and publications, office rent, maintenance and supplies, office security systems, vehicle operation and maintenance, transportation and field trip expenses, and remuneration for support staff (excluding salaries of civil servants), and audits and such other expenditures as may be agreed upon by the Association.

3. Notwithstanding the provisions of paragraph 1 above, no withdrawals shall be made in respect of: (a) payments made for expenditures prior to the date of this Agreement; (b) Category 3 (a) set forth in the table in paragraph A.1 of this Schedule until the Borrower shall have expanded the scope of the terms of reference of the Technical Consultative Commission to cover the regulation of tariffs for the whole irrigation and drainage system; and (c) Categories 1 (b), 2 and 3 (b) set forth in the table in paragraph A.1 of this Schedule until the Borrower shall have enacted the Law on Water Users Associations in substance satisfactory to the Association.

4. The Association may require withdrawals from the Credit Account to be made on the basis of statements of expenditure for expenditures for: (a) construction materials under contracts costing less than \$300,000 equivalent each; (b) goods under contracts costing less than \$100,000 equivalent each; (c) works under contracts costing less than \$1,000,000 equivalent each; (d) PCU's training; (e) Incremental Operating Costs for the WSA, DIMA Enterprises and PIU; and (f) services costing less than \$100,000 equivalent each for consulting firms and \$25,000 equivalent each for individual consultants, all under such terms and conditions as the Association shall specify by notice to the Borrower.

B. Special Account

1. The Borrower shall open and maintain in Dollars a special deposit account in a commercial bank acceptable to the Association on terms and conditions satisfactory to the Association, including appropriate protection against set-off, seizure and attachment.

2. After the Association has received evidence satisfactory to it that the Special Account has been opened, withdrawals from the Credit Account of amounts to be deposited into the Special Account shall be made as follows:

(a) until the Association shall have received (i) the first Project Management Report referred to in Section 4.02 (b) of this Agreement; and (ii) a request from the Borrower for withdrawal on the basis of Project Management Reports, withdrawals shall be made in accordance with the provisions of Annex A to this Schedule 1; and

(b) upon receipt by the Association of a Project Management Report pursuant to Section 4.02 (b) of this Agreement, accompanied by a request from the Borrower for withdrawal on the basis of Project Management Reports, all further withdrawals shall be made in accordance with the provisions of Annex B to this Schedule 1.

3. Payments out of the Special Account shall be made exclusively for Eligible Expenditures. For each payment made by the Borrower out of the Special Account, the Borrower shall, at such time as the Association shall reasonably request, furnish to the Association such documents and other evidence showing that such payment was made exclusively for Eligible Expenditures.

4. Notwithstanding the provisions of Part B.2 of this Schedule, the Association shall not be required to make further deposits into the Special Account:

(a) if the Association determines at any time that any Project Management Report does not adequately provide the information required pursuant to Section 4.02 of this Agreement;

(b) if the Association determines at any time that all further withdrawals should be made by the Borrower directly from the Credit Account; and

(c) if the Borrower shall have failed to furnish to the Association within the period of time specified in Section 4.01 (b) (ii) of this Agreement, any of the audit reports required to be furnished to the Association pursuant to said Section in respect of the audit of (A) the records and accounts for the Special Account; or (B) the records and accounts reflecting expenditures with respect to which withdrawals were made on the basis of Project Management Reports.

5. The Association shall not be required to make further deposits into the Special Account in accordance with the provisions of Part B.2 of this Schedule if, at any time, the Association shall have notified the Borrower of its intention to suspend in whole or in part the right of the Borrower to make withdrawals from the Credit Account pursuant to Section 6.02 of the General Conditions. Upon such notification, the Association shall determine, in its sole discretion, whether further deposits into the Special Account may be made and what procedures should be followed for making such deposits, and shall notify the Borrower of its determination.

6. (a) If the Association determines at any time that any payment out of the Special Account was made for an expenditure which is not an Eligible Expenditure, or was not justified by the evidence furnished to the Association, the Borrower shall, promptly upon notice from the Association, provide such additional evidence as the Association may request, or deposit into the Special Account (or, if the Association shall so request, refund to the Association) an amount equal to the amount of such payment. Unless the Association shall otherwise agree, no further deposit by the Association into the Special Account shall be made until the Borrower has provided

such evidence or made such deposit or refund, as the case may be.

(b) If the Association determines at any time that any amount outstanding in the Special Account will not be required to cover payments for Eligible Expenditures during the six-month period following such determination, the Borrower shall, promptly upon notice from the Association, refund to the Association such outstanding amount.

(c) The Borrower may, upon notice to the Association, refund to the Association all or any portion of the funds on deposit in the Special Account.

(d) Refunds to the Association made pursuant to sub-paragraphs (a), (b) or (c) of this paragraph 6 shall be credited to the Credit Account for subsequent withdrawal or for cancellation in accordance with the provisions of the Development Credit Agreement.

#### Annex A to SCHEDULE 1

##### Operation of Special Account When Withdrawals Are Not Made On the Basis of Project Management Reports

1. For the purposes of this Annex:

(a) the term "Authorized Allocation" means an amount equivalent to \$2,500,000 to be withdrawn from the Credit Account and deposited into the Special Account pursuant to paragraph 2 of this Annex.

2. Withdrawals of Authorized allocation and subsequent withdrawals to replenish the Special Account shall be made as follows:

(a) For withdrawals of the Authorized Allocation, the Borrower shall furnish to the Association a request or requests for deposit into the Special Account of an amount or amounts which in the aggregate do not exceed the Authorized Allocation. On the basis of each such request, the Association shall, on behalf of the Borrower, withdraw from the Credit Account and deposit into the Special Account such amount as the Borrower shall have requested.

(b) For replenishment of the Special Account, the Borrower shall furnish to the Association requests for deposit into the Special Account at such intervals as the Association shall specify. Prior to or at the time of each such request, the Borrower shall furnish to the Association the documents and other evidence required pursuant to Part B.3 of Schedule 1 to this Agreement, for the payment or payments in respect of which replenishment is requested. On the basis of each such request, the Association shall, on behalf of the Borrower, withdraw from the Credit Account and deposit into the Special Account such amount as the Borrower shall have requested and as shall have been shown by said documents and other evidence to have been paid out of the Special Account for Eligible Expenditures. Each such deposit into the Special Account shall be withdrawn by the Association from the Credit Account under one or more of the Eligible Categories.

3. The Association shall not be required to make further deposits into the Special Account, once the total unwithdrawn amount of the Credit minus the total amount of all outstanding special commitments entered into by the Association pursuant to Section 5.02 of the General Conditions shall equal the equivalent of twice the amount of the Authorized Allocation. Thereafter, withdrawal from the Credit Account of the remaining unwithdrawn amount of the Credit shall follow such procedures as the Association shall specify by notice to the Borrower. Such further withdrawals shall be made only after and to the extent that the Association shall have been satisfied that all such amounts remaining on deposit in the Special Account as of the date of such notice will be utilized in making payments for Eligible Expenditures.

#### Annex B to SCHEDULE 1

##### Operation of Special Account When Withdrawals Are Made

## On the Basis of Project Management Reports

1. Except as the Association may otherwise specify by notice to the Borrower, all withdrawals from the Credit Account shall be deposited by the Association into the Special Account in accordance with the provisions of Schedule 1 to this Agreement. Each such deposit into the Special Account shall be withdrawn by the Association from the Credit Account under one or more of the Special Account's Eligible Categories.

2. Each application for withdrawal from the Credit Account for deposit into the Special Account shall be supported by a Project Management Report.

3. Upon receipt of each application for withdrawal of an amount of the Credit, the Association shall, on behalf of the Borrower, withdraw from the Credit Account and deposit into the Special Account an amount equal to the lesser of: (a) the amount so requested; and (b) the amount which the Association has determined, based on the Project Management Report accompanying said application, is required to be deposited in order to finance Eligible Expenditures during the six-month period following the date of such report; provided, however, that the amount so deposited, when added to the amount indicated by said Project Management Report to be remaining in the Special Account, shall not exceed the equivalent of \$5,000,000.

## SCHEDULE 2

### Description of the Project

The objective of the Project is to contribute to improvements in the standard of living in rural Armenia through enhanced profitability and sustainability of irrigated infrastructure.

The Project consists of the following parts, subject to such modifications thereof as the Borrower and the Association may agree upon from time to time to achieve such objectives:

#### Part A: Rehabilitation of Critical Irrigation Infrastructure

1. Rehabilitation of the most critically deteriorated higher-level irrigation system structures.

2. Capacity expansion of the Armavir irrigation scheme's: (a) Araks river intake, including construction of sediment control facilities; (b) Hoktemberian main conveyance canal; and (c) Maisian secondary canal.

#### Part B: Conversion from Pump to Gravity Irrigation

Reduction of reliance on high-cost energy-intensive irrigation by supporting the conversion of pump irrigation schemes to gravity irrigation schemes where clear technical and economic viability can be demonstrated.

#### Part C: Institutional Development

Provision of technical assistance, training, equipment and vehicles to support the institutional development of: (a) WUFs; (b) the DIMA Enterprises; and (c) the WSA.

#### Part D: Project Management and Design and Supervision of Tertiary Rehabilitation

Provision of: (a) technical assistance for design and supervision of tertiary rehabilitation; (b) equipment; and (c) financing for: (i) incremental operating costs for the WSA, DIMA Enterprises and PIU, including audit services; (ii) training for formation of WUFs; and (iii) carrying out of monitoring and evaluation activities for the Project.

\* \* \*

The Project is expected to be completed by September 30, 2006.

### SCHEDULE 3

#### Procurement and Consultants' Services

##### Section I. Procurement of Goods and Works

###### Part A: General

1. Goods and works shall be procured in accordance with: (a) the provisions of Section I of the "Guidelines for Procurement under IBRD Loans and IDA Credits" published by the Bank in January 1995 and revised in January and August 1996, September 1997 and January 1999 (the Guidelines); and (b) the provisions of the following Parts of this Section I.

2. In paragraphs 1.6 and 1.8 of the Guidelines, the references to "Bank member countries" and "member country" shall be deemed to be references, respectively, to "Participating Countries" and "Participating Country".

###### Part B: International Competitive Bidding

1. Except as otherwise provided in Part C of this Section, goods and works shall be procured under contracts awarded in accordance with the provisions of Section II of the Guidelines and paragraph 5 of Appendix 1 thereto.

2. The following provisions shall apply to goods and works to be procured under contracts awarded in accordance with the provisions of paragraph 1 of this Part B.

###### Preference for domestically manufactured goods and domestic contractors

The provisions of paragraphs 2.54 and 2.55 of the Guidelines and Appendix 2 thereto shall apply to goods manufactured in the territory of the Borrower and works to be carried out by domestic contractors.

###### Part C: Other Procurement Procedures

###### 1. National Competitive Bidding

Works estimated to cost less than \$1,000,000 equivalent per contract, up to an aggregate amount not to exceed \$3,780,000 equivalent; and (b) construction materials to be used by WUFs in the rehabilitation of secondary and tertiary irrigation systems using their own labor estimated to cost less than \$300,000 equivalent per contract up to an aggregate amount not to exceed \$1,841,000 equivalent, may be procured under contracts awarded in accordance with the provisions of paragraphs 3.3 and 3.4 of the Guidelines.

###### 2. International Shopping

Goods estimated to cost less than \$100,000 equivalent per contract, up to an aggregate amount not to exceed \$526,000 equivalent, may be procured under contracts awarded on the basis of international shopping procedures in accordance with the provisions of paragraphs 3.5 and 3.6 of the Guidelines.

###### 3. Procurement from IAPSO

As an alternative to international shopping procedures under paragraph 2 above, goods may be procured through the Inter-Agency Procurement Services Office (IAPSO) of the United Nations Development Program (UNDP) in accordance with the provisions of

paragraph 3.9 of the Guidelines.

#### 4. National Shopping

Goods estimated to cost less than \$50,000 equivalent per contract, up to an aggregate amount not to exceed \$335,000 equivalent, may be procured under contracts awarded on the basis of national shopping procedures in accordance with the provisions of paragraphs 3.5 and 3.6 of the Guidelines.

#### 5. Procurement of Small Works

Works estimated to cost less than \$50,000 equivalent per contract, up to an aggregate amount not to exceed \$500,000 equivalent, may be procured under lump-sum, fixed-price contracts awarded on the basis of quotations obtained from three (3) qualified domestic contractors in response to a written invitation. The invitation shall include a detailed description of the works, including basic specifications, the required completion date, a basic form of agreement acceptable to the Association, and relevant drawings, where applicable. The award shall be made to the contractor who offers the lowest price quotation for the required work, and who has the experience and resources to complete the contract successfully.

### Part D: Review by the Association of Procurement Decisions

#### 1. Procurement Planning

Prior to the issuance of any invitations to bid for contracts, the proposed procurement plan for the Project shall be furnished to the Association for its review and approval, in accordance with the provisions of paragraph 1 of Appendix 1 to the Guidelines. Procurement of all goods and works shall be undertaken in accordance with such procurement plan as shall have been approved by the Association, and with the provisions of said paragraph 1.

#### 2. Prior Review

(a) With respect to: (i) each contract for goods and works procured in accordance with international competitive bidding procedures; and (ii) the first contract for works and the first contract for goods procured in accordance with national competitive bidding procedures, the procedures set forth in paragraphs 2 and 3 of Appendix 1 to the Guidelines shall apply.

(b) With respect to: (i) the first contract procured in accordance with international shopping procedures; and (ii) the first contract procured in accordance with national shopping procedures, the following procedures shall apply:

- (i) prior to the selection of any supplier under shopping procedures, the Borrower shall provide to the Association a report on the comparison and evaluation of quotations received;
- (ii) prior to the execution of the contract procured under shopping, the Borrower shall provide to the Association a copy of the specifications and the draft contract; and
- (iii) the procedures set forth in paragraphs 2(f), 2(g) and 3 of Appendix 1 to the Guidelines shall apply.

#### 3. Post Review

With respect to each contract not governed by paragraph 2 of this Part, the procedures set forth in paragraph 4 of Appendix 1 to the Guidelines shall apply.

### Section II. Employment of Consultants

Part A: General

1. Consultants' services shall be procured in accordance with: (a) the provisions of the Introduction and Section IV of the "Guidelines: Selection and Employment of Consultants by World Bank Borrowers" published by the Association in January 1997 and revised in September 1997 and January 1999, subject to the modifications thereto set forth in paragraph 2 of this Part A (the Consultant Guidelines); and (b) the provisions of the following Parts of this Section II.

2. In paragraph 1.10 of the Consultant Guidelines, the references to "Bank member countries" and "member country" shall be deemed to be references, respectively, to "Participating Countries" and "Participating Country".

Part B: Quality- and Cost-based Selection

1. Except as otherwise provided in Part C of this Section, consultants' services shall be procured under contracts awarded in accordance with the provisions of Section II of the Consultant Guidelines, paragraph 3 of Appendix 1 thereto, Appendix 2 thereto, and the provisions of paragraphs 3.13 through 3.18 thereof applicable to quality- and cost-based selection of consultants.

2. The following provisions shall apply to consultants' services to be procured under contracts awarded in accordance with the provisions of the preceding paragraph. The short list of consultants for services for design and supervision of construction and for complex training under Parts A, B and C of the Project, estimated to cost less than \$200,000 equivalent per contract, may comprise entirely national consultants in accordance with the provisions of paragraph 2.7 of the Consultant Guidelines.

Part C: Other Procedures for the Selection of Consultants

1. Least-cost Selection

Auditing services estimated to cost less than \$50,000 equivalent per contract may be procured under contracts awarded in accordance with the provisions of paragraphs 3.1 and 3.6 of the Consultant Guidelines.

2. Selection Based on Consultants' Qualifications

Services for small construction design and supervision on secondary and tertiary system rehabilitation and for the preparation of an environmental manual and environmental studies under Part C of the Project estimated to cost less than \$100,000 equivalent per contract may be procured under contracts awarded in accordance with the provisions of paragraphs 3.1 and 3.7 of the Consultant Guidelines.

3. Individual Consultants

Services for tasks that meet the requirements set forth in paragraph 5.1 of the Consultant Guidelines shall be procured under contracts awarded to individual consultants in accordance with the provisions of paragraphs 5.1 through 5.3 of the Consultant Guidelines.

Part D: Review by the Association of the Selection of Consultants

1. Selection Planning

Prior to the issuance to consultants of any requests for proposals, the proposed plan for the selection of consultants under the Project shall be furnished to the Association for its review and approval, in accordance with the provisions of paragraph 1 of Appendix 1 to the Consultant Guidelines. Selection of all consultants' services shall be undertaken in accordance with such selection plan as shall have been approved by the Association, and with the provisions of said paragraph 1.

## 2. Prior Review

(a) With respect to each contract for the employment of consulting firms estimated to cost the equivalent of \$200,000 or more, the procedures set forth in paragraphs 1, 2 (other than the third subparagraph of paragraph 2(a)) and 5 of Appendix 1 to the Consultant Guidelines shall apply.

(b) With respect to each contract for the employment of consulting firms estimated to cost the equivalent of \$100,000 or more, but less than the equivalent of \$200,000, the procedures set forth in paragraphs 1, 2 (other than the second subparagraph of paragraph 2(a)) and 5 of Appendix 1 to the Consultant Guidelines shall apply.

(c) With respect to each contract for the employment of individual consultants estimated to cost the equivalent of \$25,000 or more, the qualifications, experience, terms of reference and terms of employment of the consultants shall be furnished to the Association for its prior review and approval. The contract shall be awarded only after the said approval shall have been given.

(d) With respect to: (i) each contract for the employment of consulting firms, estimated to cost less than the equivalent of \$100,000; and (ii) each contract for the employment of individual consultants, estimated to cost less than the equivalent of \$25,000, the terms of reference of the consulting firms and the individual consultants shall be furnished to the Association for its prior review and approval. The contract shall be awarded only after the said approval shall have been given.

## 3. Post Review

With respect to each contract not governed by paragraph 2 of this Part, the procedures set forth in paragraph 4 of Appendix 1 to the Consultant Guidelines shall apply.

## SCHEDULE 4

### Implementation Program

1. The Borrower shall carry out the Project in accordance with the requirements set forth or referred to in the PIP.

2. The Borrower shall maintain the PIU until completion of the Project, with staff, resources and terms of reference satisfactory to the Association, and assign to it responsibility for overall management of Project implementation and coordination, including:

(a) preparation of disbursement applications under the Credit;

(b) management of the Special Account referred to in Schedule 1 to this Agreement;

(c) maintenance of records and accounts related to the Project and arranging for the audit thereof;

(d) preparation of bidding documents and participation in administration of bidding procedures and of contracts under the Project;

(e) preparation of quarterly progress reports and submission thereof to the Borrower and the Association not later than 30 days after the end of each quarter, the first such report to be furnished to the Association not later than April 30, 2002; and

(f) management and supervision of all Project activities.

3. The Borrower shall maintain the Project Management Board until completion of the Project with composition and responsibilities satisfactory to the Association.

4. The Borrower through the PIU shall prepare and furnish to the Association by September 30 in each year, for its review and concurrence, an annual work program for the Project for the following calendar year, including procurement and financing plans.

5. The Borrower shall ensure that all measures necessary for the carrying out of the EMP shall be taken in a timely manner and shall include adequate information on the carrying out of such measures in the progress reports referred to in paragraph 2(e) of this Schedule.

6. By March 31, 2002, the Borrower shall establish the WSA with structure, staff, resources, and terms of reference satisfactory to the Association.

7. The Borrower shall allocate to SCWM annual budgets adequate to fully cover the subsidy mandated under the policy in effect and in conformity with the recommendations of the Technical Consultative Commission on operation and maintenance.

8. The Borrower shall take all measures necessary to ensure that the regional DIMA Enterprises will operate as autonomous agencies on the basis of annual work plans and associated budgets approved by the DIMA board. This board will consist of the SCWM chairman and a representative from each regional DIMA Enterprise.

9. The Borrower shall take all measures necessary to ensure that: (a) WUFs and WUCCs shall be solely responsible for the collection from their members of water charges as determined by the Borrower's cost recovery plan; and (b) WUFs and WUCCs shall be free to collect membership fees in such amounts that will allow them to assume their responsibilities and meet their internal financial needs in the short-run while building a basis for financial viability in the long-run.

10. The Borrower shall take all measures necessary to ensure that water fees collected by WUFs and WUCCs will be deposited in a scheme-level account in the name of the concerned DIMA Enterprise.

11. The Borrower shall take all measures necessary to ensure that the DIMA Enterprises will focus on the management of the operation and maintenance process, leaving the actual operation and maintenance tasks to be executed by private contractors in conformity with procurement procedures in effect.

12. The Borrower shall:

(a) maintain policies and procedures adequate to enable it to monitor and evaluate on an ongoing basis, in accordance with indicators satisfactory to the Association, the carrying out of the Project and the achievement of the objectives thereof;

(b) prepare, under terms of reference satisfactory to the Association, and furnish to the Association, on or about March 31, 2004, a mid term report integrating the results of the monitoring and evaluation activities performed pursuant to paragraph (a) of this Section, on the progress achieved in the carrying out of the Project during the period preceding the date of said report and setting out the measures recommended to ensure the efficient carrying out of the Project and the achievement of the objectives thereof during the period following such date; and

(c) review with the Association, by June 30, 2004, or such later date as the Association shall request, the report referred to in paragraph (b) of this Section, and, thereafter, take all measures required to ensure the efficient completion of the Project and the achievement of the objectives thereof, based on the conclusions and recommendations of the said report and the Association's views on the matter.

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