GRANT NUMBER IDA D356-7C
and
Amendment to GRANT NUMBER H677-7C

Financing Agreement

(Additional Financing for the Central Asia Hydrometeorology Modernization Project
And
Amendment to the Original Financing Agreement and Revised Performance Monitoring Indicators)

between

EXECUTIVE COMMITTEE OF THE INTERNATIONAL FUND FOR SAVING THE ARAL SEA

and

INTERNATIONAL DEVELOPMENT ASSOCIATION
GRANT NUMBER IDA D356-7C

FINANCING AGREEMENT

AGREEMENT dated as of the Signature Date between EXECUTIVE COMMITTEE OF THE INTERNATIONAL FUND FOR SAVING THE ARAL SEA ("Recipient") and INTERNATIONAL DEVELOPMENT ASSOCIATION ("Association") for the purpose of (i) providing additional financing for the Original Project (as defined in the Appendix to this Agreement) and activities related to the Original Project, and (ii) amending the Original Financing Agreement and the Performance Monitoring Indicators, as reflected in the Appendix to this Agreement.

The Recipient and the Association hereby agree as follows:

ARTICLE I — GENERAL CONDITIONS; DEFINITIONS

1.01. The General Conditions (as defined in the Appendix to this Agreement) apply to and form part of this Agreement.

1.02. Unless the context requires otherwise, the capitalized terms used in this Agreement have the meanings ascribed to them in the General Conditions or in the Appendix to this Agreement.

ARTICLE II — FINANCING

2.01. The Association agrees to extend to the Recipient a grant, deemed by the Association to be on concessional terms, as set forth or referred to in this Agreement, in an amount equivalent to two million five hundred thousand Special Drawing Rights (SDR 2,500,000) ("Financing"), to assist in financing the project described in Schedule 1 to this Agreement ("Project").

2.02. The Recipient may withdraw the proceeds of the Financing in accordance with Section III of Schedule 2 to this Agreement.

2.03. The Maximum Commitment Charge Rate is one-half of one percent (1/2 of 1%) per annum on the Unwithdrawn Financing Balance.

2.04. The Payment Dates are January 15 and July 15 in each year.

2.05. The Payment Currency is Dollar.
ARTICLE III — PROJECT

3.01. The Recipient declares its commitment to the objective of the Project. To this end, the Recipient shall carry out Part 1 of the Project, through RCH, in accordance with the provisions of Article V of the General Conditions and Schedule 2 to this Agreement.

ARTICLE IV — REMEDIES OF THE ASSOCIATION

4.01. The Additional Events of Suspension consist of the following:

(a) The Recipient’s Documents have, in the opinion of the Association, been amended, suspended, abrogated, repealed or waived so as to affect materially and adversely the ability of the Recipient to perform any of its obligations under this Agreement.

(b) Any action has been taken for the dissolution, disestablishment as an international organization or suspension of the operation of the Recipient, or the RCH.

(c) A Member State has failed to make payment of principal, interest, service charges or any other amount due to the Association or the Bank under any agreement between such Member State and the Association or the Bank.

ARTICLE V — EFFECTIVENESS; TERMINATION

5.01. The Additional Conditions of Effectiveness consist of the following:

(a) the Project Operations Manual has been updated by the Recipient in a manner satisfactory to the Association;

(b) on behalf of the Recipient, the delivery to the Association of an opinion of counsel satisfactory to the Association showing, with respect to certain of the Recipient’s Documents, that:

(i) The IFAS and IFAS Entities Regulations, the EC-IFAS Regulations and the RCH Regulations are in full force and effect in Turkmenistan and the Republic of Kazakhstan; and
(ii) The Recipient and the RCH, as well as their staff, enjoy the privileges and immunities awarded to organizations of IFAS under the IFAS Status Agreement.

5. 02. The Effectiveness Deadline is the date one hundred and twenty (120) days after the Signature Date.

ARTICLE VI — REPRESENTATIVE; ADDRESSES

6.01. Except as provided in Section 2.02 of this Agreement, the Recipient’s Representative is its Chairman.

6.02. For purposes of Section 11.01 of the General Conditions: (a) the Recipient’s address is:

   Hero of Turkmenistan A. Niyazov Avenue 142
   Ashgabat, 744013
   Turkmenistan; and

   (b) the Recipient’s Electronic Address is:

   Telex: +993 12 223242   Facsimile: +993 12 233313   E-mail: ecifas.tm@mail.ru

6.03. For purposes of Section 11.01 of the General Conditions: (a) The Association’s address is:

   International Development Association
   1818 H Street, N.W.
   Washington, D.C. 20433
   United States of America; and

   (b) the Association’s Electronic Address is:

   Telex: 248423 (MCI)   Facsimile: 1-202-477-6391
AGREED as of the Signature Date.

EXECUTIVE COMMITTEE OF
THE INTERNATIONAL FUND FOR SAVING
THE ARAL SEA

By

[Signature]
Authorized Representative

Name: Gurzeldy Baydzhakov
Title: Chairman
Date: December 3, 2019

INTERNATIONAL DEVELOPMENT ASSOCIATION

By

[Signature]
Authorized Representative

Name: Olia Burunciuca
Title: Regional Director
Date: December 3, 2019
SCHEDULE 1

Project Description

The objective of the Project is to improve the accuracy and timeliness of the hydrometeorology services in Central Asia, with particular focus on Kyrgyz Republic and Republic of Tajikistan.

The Project consists of the following parts:

Part 1. Strengthening Regional Coordination and Information Sharing and Services.

Provision of goods (including related installation services), consulting services and training to:

(a) improve the technical and organizational capacity of the EC-IFAS and the RCH to coordinate the work of the National Hydrometeorological Services and to promote information receiving, storage and exchange among the National Hydrometeorological Services;

(b) improve the regional system of training, re-training, and professional development in the field of meteorology, hydrology and climate;

(c) improve the provision of hydrometeorological services by the National Hydrometeorological Services through: (i) improved early warning systems for extreme events, including support to the CARFFGS; and (ii) improved weather and river flow forecasting and climate change assessment systems with access to, and use of, global and regional numerical weather prediction products; and

(d) support implementation of Part 1 of the Project and ensure full coordination of activities under Part 1 of the Project and of those in Part 2 and Part 3 of the Project.


Provision of goods (including related installation services), consulting services and training to:

(a) strengthen the institutional capacity of Kyrgyzhydromet, including improvement of its human resources and its financial sustainability model through: (i) technical support and training of Kyrgyzhydromet staff; (ii) development and testing of an appropriate business model for the delivery of commercial weather, climate and hydrological services in the Kyrgyz Republic; (iii) revising the scientific methodological basis of the Kyrgyzhydromet operations to World Meteorological Organization
standards; and (iv) preparation of a feasibility study for country-wide modernization of hydrometeorological services, including integration and strengthening of existing systems for monitoring and forecasting at Kyrgyzhydromet and other relevant public bodies of the Kyrgyz Republic, pursuant to criteria set forth the Project Operations Manual;

(b) improve the hydrometeorological observation networks to provide more timely extreme and hazardous weather warnings and a more efficient national water resources management system through: (i) equipment restoration and improvement for hydrological, agrometeorological and snow-avalanche observation; (ii) establishment, refurbishment and/or technical enhancement of national centers for meteorological data collection; (iii) development of forecasting systems; (iv) creation of an automatic monitoring system on high risk high-mountain lakes selected in accordance to criteria set forth in the Project Operations Manual; and (v) creation of a mobile expeditionary subdivision for monitoring high risk breakthrough lakes, glaciers and mudflow hazard sites;

(c) enhance the service delivery system of Kyrgyzhydromet through: (i) development of improved services provided by Kyrgyzhydromet including expanded user access to informational products; and (ii) specialized training to staff involved in service delivery; and

(d) support implementation of Part 2 of the Project.

Part 3. **Strengthening of Hydromet Services in Republic of Tajikistan.**

Provision of goods (including related installation services), consulting services and training to:

(a) strengthen the institutional capacity of Tajikhydromet, including improvement of its human resources and its financial sustainability model through: (i) technical support and training of Tajikhydromet staff; (ii) development and testing of an appropriate business model for the delivery of commercial weather, climate and hydrological services in the Republic of Tajikistan; and (iii) revising the scientific methodological basis of the Tajikhydromet operations to World Meteorological Organization standards;

(b) improve the hydrometeorological observation networks to provide: (i) timelier extreme and hazardous weather warnings; and (ii) a more efficient national water resources management system through: (A) equipment restoration and improvement for hydrological, agrometeorological and snow-avalanche observation; (B) establishment, refurbishment and/or
technical enhancement of national centers for meteorological data collection; and (C) development of forecasting systems;

(c) enhance the service delivery system of Tajikhydromet through: (i) development of improved services provided by Tajikhydromet including expanded user access to informational products; (ii) development of a national framework for climate services, in line with the Global Framework for Climate Services; and (iii) specialized training to staff involved in service delivery; and

(d) support implementation of Part 3 of the Project.
SCHEDULE 2

Project Execution

Section I. Implementation Arrangements

A. Institutional Arrangements.

1. The Recipient shall carry out Part 1 of the Project in accordance with the requirements, criteria, organizational arrangements and operational procedures set forth in the Project Operations Manual, and shall not assign, amend, abrogate or waive any provisions of the Project Operations Manual without prior approval of the Association.

2. The Chairman of the Recipient and the Coordination Council of the RCH shall have overall responsibility for oversight, inter-agency coordination and policy guidance for the regional activities of the Project, in accordance with the requirements, criteria, organizational arrangements and operational procedures set forth in the Project Operations Manual.

3. The PMU, established within the RCH, shall be responsible for the day-to-day management and implementation of Part 1 of the Project, including the coordination with each Project Management Committee, at the broader Project level activities, in accordance with the Project Operations Manual.

4. The Recipient, through the Chief Accountant of the RCH, shall have overall responsibility for financial management and disbursement functions, with support of a financial management consultant.

5. The Recipient shall maintain the RCH and the PMU throughout the life of the Project in a form and with functions, staffing, resources, terms of reference and qualifications satisfactory to the Association. In addition, the PMU shall be located and maintained in the city of Almaty, Republic of Kazakhstan, for the life of the Project.

Section II. Project Monitoring, Reporting and Evaluation

The Recipient shall furnish to the Association each Project Report not later than forty-five days after the end of each calendar semester, covering the calendar semester.

Section III. Withdrawal of the Proceeds of the Financing

A. General
Without limitation upon the provisions of Article II of the General Conditions and in accordance with the Disbursement and Financial Information Letter, the Recipient may withdraw the proceeds of the Financing to finance Eligible Expenditures in the amount allocated and, if applicable, up to the percentage set forth against each Category of the following table:

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount of the Grant Allocated (expressed in SDR)</th>
<th>Percentage of Expenditures to be Financed (inclusive of Taxes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) Goods, non-consulting services (including related installation services), consulting services, incremental operating costs, and Training for Part 1 of the Project</td>
<td>2,500,000</td>
<td>100%</td>
</tr>
<tr>
<td>TOTAL AMOUNT</td>
<td>2,500,000</td>
<td></td>
</tr>
</tbody>
</table>

For the purpose of this table:

(a) "Incremental Operating Costs" means the reasonable expenditures incurred for the implementation of the Project by the PMU on account of office rental, utility charges, transportation, office supplies, maintenance and minor refurbishing of office and equipment, photocopying, translation, printing, advertisements, banking charges, communication services, support for information systems, travel costs, including accommodation and *per diem*, and support staff excluding salaries of officials of the Recipient’s staff; and

(b) "Training" means Project related study tours, training courses, seminars, workshops and other training activities, not included under goods or service providers’ contracts, including costs of training materials, space and equipment rental, local travel, *per diem* costs of trainees and trainers’ fees, and interpretation and translation services.
B. Withdrawal Conditions; Withdrawal Period

1. Notwithstanding the provisions of Part A of this Section, no withdrawal shall be made for payments made prior to the date of this Agreement.

2. The Closing Date is March 31, 2021.
Section I. Definitions

1. "Anti-Corruption Guidelines" means, for purposes of paragraph 5 of the Appendix to the General Conditions, the "Guidelines on Preventing and Combating Fraud and Corruption in Projects Financed by IBRD Loans and IDA Credits and Grants", dated October 15, 2006 and revised in January 2011 and as of July 1, 2016.

2. "Category" means a category set forth in the table in Section III.A of Schedule 2 to this Agreement.

3. "CARFFGS" means the Central Asia Regional Flash Flood Guidance System, a virtual flash flood monitoring and assessment system developed under a project and guidance of the World Meteorological Organization (WMO) with support from the United States Agency for International Development (USAID), Hydrologic Research Center (HRC) and the United State National Weather Service (US NWS), operated by Central Asia Regional Flash Flood Guidance System Regional Centre (CARFFGS RC, Astana) within Kazhydromet.

4. "General Conditions" means the "International Development Association General Conditions for IDA Financing, Investment Project Financing", dated July 14, 2017, with the modifications set forth in Section II of this Appendix.

5. "Global Framework for Climate Services" or "GFCS" means the Framework proposed by the World Climate Conference-3 (Geneva, 2009) and subsequently endorsed and created by the Extraordinary Session of the World Meteorological Congress (Geneva, 2012), which also established the Intergovernmental Board on Climate Services (IBCS) to serve as the governance of the GFCS.


7. "Kyrgyzhydromet" means the Agency on Hydrometeorology (Kyrgyzhydromet) established under the Ministry of Emergency Situations of the Kyrgyz Republic and functioning pursuant to Resolution No. 572 approved by the Government of the Kyrgyz Republic on September 14, 2017, amending and replacing Regulation No. 130 approved by the Government of the Kyrgyz Republic on March 5, 2010, in charge of implementing Part 2 of the Project.
8. "Member State" means, for purposes of Section 4.01(c), Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Turkmenistan and Republic of Uzbekistan.

9. "National Hydrometeorological Services" means, collectively, one or more of the entities in charge of developing and providing national hydrometeorological services for and in each of the Kyrgyz Republic (through Kyrgyzhydromet), the Republic of Kazakhstan (through Kazhydromet), the Republic of Tajikistan (through Tajikhydromet), Turkmenistan (through Turkmenhydromet), and the Republic of Uzbekistan (through Uzhydromet and the World Meteorological Organization Regional Specialized Meteorological Center (WMO RSMC) hosted by Uzhydromet).

10. "Original Financing Agreement" means the financing agreement for the Original Project between the Recipient and the Association, dated July 12, 2011 (Grant No H677-7C), as amended through the Signature Date, and as the same may be further amended from time to time in accordance with its terms.

11. "Original Project" means the Project described in Schedule 1 to the Original Financing Agreement.

12. "PMU" means the Project management unit established within the Recipient, responsible for the implementation of Part 1 of the Project, including the coordination with the Project Management Committee in each of Kyrgyz Republic and Republic of Tajikistan.


14. "Project Management Committee" means, indistinctively, the individual committee in each of Kyrgyz Republic and Republic of Tajikistan in charge of overall management and coordination of Part 2 and 3 of the Project, respectively, and coordination with the PMU.

15. "Project Operations Manual" means the manual, adopted by the Recipient and to be updated pursuant to Section 5.01(a) of this Agreement, setting forth the operational and administrative responsibilities, procedures and rules for the implementation of Part 1 of the Project, including a manual of financial management procedures that sets out procedures for Project accounting, reporting and audit, disbursements, flow of funds and management of the designated account, as the same may be further amended from time to time with the agreement of the Association.
16. "Recipient's Documents" means: (i) the decision of Heads of the Central Asia States on the Re-Organization of the Structure of the International Fund for Saving the Aral Sea dated February 28, 1997 (the "Re-Organization of IFAS"); (ii) the Agreement dated April 9, 1999 between the Government of Republic of Kazakhstan, the Government of Kyrgyz Republic, the Government of Republic of Tajikistan, the Government of Turkmenistan, and the Government of Republic of Uzbekistan About the Status of the International Fund for Saving the Aral Sea (IFAS) and its Organizations (the "IFAS Status Agreement"); (iii) the Regulations of IFAS and its Entities, as approved by Decision of the Heads of Central Asia States dated April 9, 1999 (the "IFAS and IFAS Entities Regulations"); (iv) the Decision of the Board of IFAS dated August 23, 2002, executed by the Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Turkmenistan, and Republic of Uzbekistan, on the Establishment of the Regional Center of Hydrology (RCH) (the "RCH Establishment Decision"); (v) the Regulations of the Regional Center of Hydrology, as adopted by Decision of the Board of IFAS dated March 27, 2004 (#5 on the adoption of the Regulations on the IFAS Regional Center of Hydrology) executed by the Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Turkmenistan, and Republic of Uzbekistan (the "RCH Regulations"); (vi) the Regulations of the Executive Committee of the International Fund for Saving the Aral Sea (EC-IFAS), as approved by the President of IFAS – President of the Republic of Kazakhstan, dated March 21, 2009 (the "EC-IFAS Regulations"); and (vii) the Decision of the Board of IFAS dated December 15, 2010 executed by the Republic of Kazakhstan, Kyrgyz Republic, Republic of Tajikistan, Turkmenistan, and Republic of Uzbekistan on the Improvement of the Hydrometeorological services in the IFAS Founder States (the "CAHMP Support Decision").

17. "RCH" means the Regional Center of Hydrology, established and functioning pursuant to the RCH Establishment Decision, and the RCH Regulations.

18. "Tajikhydromet" means the State Institution for Hydrometeorology of the Committee on Environmental Protection under the Government of the Republic of Tajikistan, established by Resolution 458 dated October 1, 2008 of the Government of Republic of Tajikistan in charge of implementing Part 3 of the Project.

19. "Turkmenhydromet" means the National Committee for Hydrometeorology under the Cabinet of Ministers of Turkmenistan operating under the Law of Turkmenistan on Hydrometeorology Activity, No.392-1 dated September 15, 1999, and Provision #11440 on the National Committee for Hydrometeorology under the Cabinet of Ministers of Turkmenistan, approved by the Decree of the President of Turkmenistan dated January 21, 2011.
20. **Signature Date** means the later of the two dates on which the Recipient and the Association signed this Agreement and such definition applies to all references to “the date of the Financing Agreement” in the General Conditions.

21. **Uzhydromet** means the Center for Hydrometeorology Services under the Ministry of Emergency Situations of the Republic of Uzbekistan, originally established on May 7, 1921, currently operating under Resolution #606 of the Cabinet of Ministers dated August 9, 2017 (earlier # 183 dated April 14, 2004).

**Section II. Modifications to the General Conditions**

The modifications to the General Conditions (as the term is defined in Section I above) are as follows (all references below to “Sections” and “Appendix” are to the Sections of and the Appendix to the General Conditions):

A. In Section 2.06 (Financing Taxes), the text “Taxes levied by, or in the territory of, the Recipient” is modified to read “Taxes levied by, or in the territory of, the Member Country”.

B. In Section 3.18 (Manner of Payment), the text “Taxes levied by, or in the territory of, the Recipient” in paragraph (b) is modified to read “Taxes levied by, or in the territory of, the Member Country”.

C. Paragraph (a) of Section 5.11 (Visits) is modified to read as follows:

“(a) The Recipient shall take all measures required on its part to enable the representatives of the Association to visit any part of the Member Country’s territory for purposes related to the Financing of the Project.”

D. In Section 8.02(i) (Assignment of Obligations; Disposition of Assets), the expression “Project Implementing Entity” in sub-paragraph (ii)(B) of is modified to read “Recipient”.

E. Section 8.02 (j) (Membership) is modified to read as follows:

“(j) Membership. A Member Country: (i) has been suspended from membership in or ceased to be a member of the Association; or (ii) has ceased to be a member of the International Monetary Fund.”

F. In Sections 8.02 (k) (Condition of Project Implementing Entity) and 8.02(l) (Ineligibility), all references to “Project Implementing Entity” are modified to read “Recipient”.

G. A new paragraph (m) is added to Section 8.02 (Suspension by the Association) (and the existing paragraph (m) is renumbered as (n)) to read as follows:
"(m)  *Interference.* A Member Country has: (i) taken or permitted to be taken any action which would prevent or interfere with the execution of the Project or the performance by the Recipient of its obligations under the Financing Agreement; or (ii) failed to afford a reasonable opportunity for representatives of the Association to visit any part of its territory for purposes related to the Financing or the Project."

H. Definition 35 of the Appendix is revised to read as follows:

"35.  "Member Country" means the member of the Association in whose territory the Project is carried out or any of such member’s political or administrative subdivisions. If such activity is carried out in the territory of more than one such member, "Member Country" refers separately to each such member."

I. The definition of “Recipient” in the Appendix is modified to read as follows:

"94.  "Recipient” means the entity which is a party to the Financing Agreement and to which the Financing is extended."

**Section III. Amendments to the Original Financing Agreement and Revised Performance Monitoring Indicators**

The Recipient and the Association hereby agree to amend the Original Financing Agreement and revise the Performance Monitoring Indicators as follows:

1. Section 3.01 of Article III to the Original Financing Agreement shall be amended to read as follows (Modifications are shown in *italics*):

   "3.01. The Recipient declares its commitment to the objective of the Project. To this end, the Recipient shall carry out Part 1 of the Project, through RCH, in accordance with the provisions of Article V of the General Conditions and Schedule 2 to this Agreement."

2. Schedule 1 to the Original Financing Agreement is hereby replaced with Schedule 1 to this Agreement, and defined terms used in Schedule 1 to this Agreement shall be read to mean as defined in Section I of the Appendix to this Agreement.

3. Section I.A.3 of Schedule 2 to the Original Financing Agreement is amended to read as follows (modifications are shown in *italics*):

   "3. The PMU, established within the RCH, shall be responsible for the day-to-day management and implementation of Part 1 of the Project, including the
coordination with each Project Management Committee, at the broader Project level activities, in accordance with the Project Operations Manual."

4. Section 1.A.2 of Schedule 2 to the Original Financing Agreement is amended to replace “the Coordination Council of the Recipient’s RCH” with “the Coordination Council of RCH”.

5. Section 1.A.4 of Schedule 2 to the Original Financing Agreement is amended to read as follows (modifications are shown in italics):

   “4. The Recipient, through the Chief Accountant of the RCH, shall have overall responsibility for financial management and disbursement functions, with support of a financial management consultant.”

6. Paragraph B.2. of Section IV of Schedule 2 to the Original Financing Agreement is amended to extend the Closing Date, and shall read as follows:

   “2. The Closing Date is March 31, 2021.”

7. The Appendix to the Original Financing Agreement is hereby replaced with the Appendix to this Agreement.

8. The Attachment to the Supplemental Letter No. 2 is amended and restated to read as set forth in the annex to this Section III of the Appendix to this Agreement.
Annex to Supplemental Letter no. 2 on Performance Monitoring Indicators
Results Framework
COUNTRY: Central Asia
Central Asia Hydrometeorology Modernization Project (CAHMP) Additional Financing

Project Development Objectives
The objective of the Central Asia Hydrometeorology Modernization Project (CAHMP) is to improve the accuracy and timeliness of hydromet services in Central Asia, with particular focus on Kyrgyz Republic and Republic of Tajikistan.

Project Development Objective Indicators

<table>
<thead>
<tr>
<th>Action</th>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>End Target</th>
<th>Frequency</th>
<th>Data Source / Methodology</th>
<th>Responsibility for Data Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td>Name: Increased accuracy of river flow forecasts</td>
<td>Text</td>
<td></td>
<td>KgHM 62% TjHM 64%</td>
<td>KgHM: 85%</td>
<td>Annual</td>
<td>Internal verification reports of the NMHSs</td>
<td>PMU, PCU and PIU</td>
</tr>
<tr>
<td>Revised</td>
<td>Name: Increased accuracy and timeliness of basic weather forecasts</td>
<td>Text</td>
<td></td>
<td>76% for KgHM and 66% for TjHM</td>
<td>KgHM: 85%</td>
<td>Annual</td>
<td>Based on internal verification reports of the NMHSs</td>
<td>PMU, PIU and PCU</td>
</tr>
</tbody>
</table>

Description: **Accuracy (%) of seasonal river flow forecasts (for vegetation period)**—Seasonal river forecast accuracy needed for credible water management decisions

Description: **Accuracy (%) of weather forecasts of 72 hours lead time**—Accuracy of weather forecasts and warnings must be sufficient to achieve credibility with users
<table>
<thead>
<tr>
<th>Action</th>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>End Target</th>
<th>Frequency</th>
<th>Data Source / Methodology</th>
<th>Responsibility for Data Collection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td>Name: Increased user satisfaction with hydrometeorological services</td>
<td>Text</td>
<td>Existing legal structure, operating procedures and staffing are inadequate to meet KgHM mission's needs.</td>
<td>New regulations developed.</td>
<td>KgHM</td>
<td>Government decree or resolution, KgHM reports</td>
<td>Annual</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Investment and O&amp;M needs far exceed KgHM budgets.</td>
<td>New standard operating procedures developed.</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>New business plan developed.</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Budget significantly increased.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Revised

**Name:** (Comp C: Tajikistan, IRI 3) Increased sustainability and strengthened performance of Tajikhydromet operations

**Text:**
- Existing legal structure, operating procedures and staffing are inadequate to meet TjHM mission needs.
- Investment and O&M needs far exceed TjHM budgets.

**New regulations developed.**
- New standard operating procedures developed.
- New business plan developed.
- Budget significantly increased.

**TjHM**

**Government Decree or resolution TjHM reports**

**Annual report of PIU**

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### Description: New legal and regulatory documents

**Updated operational procedures**

**Better match between budget needs and available resources**

### No Change

**Name:** (Comp C: Tajikistan, IRI 5) Increased reliability of climate data

**Text:**
- Information on climate limited and of inadequate quality

**Ability to downscale to local scales for at least 90% of the country**

**TjHM**

**Report of TjHM**

**Annual**
<table>
<thead>
<tr>
<th>Revised</th>
<th>Name: (Comp B: Kyrgyz Republic, IRI 1) Improved status of hydrometeorological observation networks</th>
<th>Text</th>
<th>13% of meteostations gauging main meteo parameters</th>
<th>100% of meteostations gauging main meteo parameters</th>
<th>KgHM</th>
<th>Based on internal reports of Kyrgyzhydromet (KgHM)</th>
<th>Annual Report of PIU</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>44% of stream gauges reporting operational data</td>
<td>93% of stream gauges reporting operational data</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>70% stream gauges measuring discharges</td>
<td>87% stream gauges measuring discharges</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Description:</td>
<td>Meteorological instruments are installed, staff trained to use them; Stream gauges are repaired and telemetry installed to send data to central site; Stream gauges are equipped to measure discharges</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Revised</td>
<td>Name: (Comp B: Kyrgyz Republic, IRI 2) Better transmission of data to global telecommunication system (GTS)</td>
<td>Text</td>
<td>86.00</td>
<td>100.00</td>
<td>KgHM</td>
<td>Based on internal reports KgHM</td>
<td>Annual</td>
</tr>
<tr>
<td>Description:</td>
<td>The regional data contribution responsibility of KgHM is not being met. WMO will provide statistics showing improved contribution of NHMS.</td>
<td></td>
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<tr>
<td>Observation networks</td>
<td>Parameters</td>
<td>Parameters</td>
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<tr>
<td>16% of stream gauges reporting operational data</td>
<td>50% of stream gauges reporting operational data</td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>49% stream gauges measuring discharges</td>
<td>71% stream gauges measuring discharges</td>
<td></td>
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</tr>
</tbody>
</table>

**Description:** Meteorological instruments are installed, staff trained to use them. Stream gages are repaired and telemetry installed to send data to central site. Stream gauges are equipped to measure discharges.

<table>
<thead>
<tr>
<th>Revised</th>
<th>Name: (Comp C: Tajikistan, IRI 2) Better transmission of data to global telecommunication system (GTS)</th>
<th>Percentage</th>
<th>70.00</th>
<th>100.00</th>
<th>TJHM</th>
<th>Internal reports of NHMS</th>
<th>Annual</th>
</tr>
</thead>
</table>

**Description:** The regional data contribution responsibility of TJHM is not being met. WMO will provide statistics showing improved contribution of NHMS.

<p>| Revised | Name: (Comp A: EC-IFAS, IRI 1): Improved access to national and regional numeric weather prediction products to all CA countries | Text | 100x250 km transmitted every 12 hours | 7x7 km every 6 hours for all of Central Asia | 2x2 km every 6 hours for |</p>
<table>
<thead>
<tr>
<th>Description:</th>
<th>Name: (Comp A: EC-IFAS, IRI 2): Established platform for integration of four NHMSs in CA</th>
<th>Text</th>
<th>Lack of agreed regional approaches on knowledge exchange and emergency procedures</th>
<th>Regional approach adopted in hydromet forecasting and decision-making mechanism for regional issues formalized among the four NHMSs in CA</th>
</tr>
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<tbody>
<tr>
<td>No Change</td>
<td>Name: (Component B: Kyrgyz Republic, IRI 3) Historical data archiving</td>
<td>Text</td>
<td>0.00</td>
<td>800,000.00</td>
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<tr>
<td>Description:</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>No Change</td>
<td>Name: (Component C Tajikistan, IRI 4): Historical data archiving</td>
<td>Text</td>
<td>0.00</td>
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</tr>
<tr>
<td>Description:</td>
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<td></td>
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</tr>
<tr>
<td>New</td>
<td>Name: (Comp A: EC-IFAS, IRI 2)</td>
<td>Text</td>
<td>CARFFGS</td>
<td>CARFFGS</td>
</tr>
<tr>
<td>Description:</td>
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<tr>
<td>IRI 3): Improved access to landslide, mudflow and snowmelt guidance for all CA countries</td>
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<tr>
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<tr>
<td>provides flash flood, landslide, riverine routing and snowmelt guidance products across the region</td>
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</table>
### Target Values

**Project Development Objective Indicators**

<table>
<thead>
<tr>
<th>Action</th>
<th>Indicator Name</th>
<th>Baseline</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td>Increased accuracy of river flow forecasts</td>
<td>KgHM 62% TjHM 64%</td>
<td>KgHM: 85% TjHM: 80%</td>
</tr>
<tr>
<td>Revised</td>
<td>Increased accuracy and timeliness of basic weather forecasts</td>
<td>76% for KgHM and 66% for TjHM</td>
<td>KgHM: 85% TjHM: 85%</td>
</tr>
<tr>
<td>Revised</td>
<td>Increased user satisfaction with hydrometeorological services</td>
<td>KgHM: 2.80 TjHM: 2.90</td>
<td>KgHM: 4.3 TjHM: 4.3</td>
</tr>
</tbody>
</table>

**Intermediate Results Indicators**

<table>
<thead>
<tr>
<th>Action</th>
<th>Indicator Name</th>
<th>Baseline</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revised</td>
<td>(Comp B: Kyrgyz Republic, IRI 4) Increased institutional strength and sustainability of Kyrgyzhydromet</td>
<td>Existing legal structure, operating procedures and staffing are inadequate to meet KgHM mission's needs. Investment and O&amp;M needs exceed KgHM budgets.</td>
<td>New regulations developed. New standard operating procedures developed. New business plan developed. Budget significantly increased.</td>
</tr>
<tr>
<td>Revised</td>
<td>(Comp C: Tajikistan, IRI 3) Increased sustainability and strengthened performance of Tajikhydromet operations</td>
<td>Existing legal structure, operating procedures and</td>
<td>New regulations developed.</td>
</tr>
<tr>
<td>Type</td>
<td>Description</td>
<td>Percentage</td>
<td>Notes</td>
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<td>-----------------------------------------------------------------------------</td>
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<td>-----------------------------------------------------------------------</td>
</tr>
<tr>
<td>No Change</td>
<td>(Comp C: Tajikistan, IRI 5) Increased reliability of climate data</td>
<td></td>
<td>New standard operating procedures developed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>New business plan developed.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Budget significantly increased.</td>
</tr>
<tr>
<td>Revised</td>
<td>(Comp B: Kyrgyz Republic, IRI 1) Improved status of hydrometeorological observation networks</td>
<td>13%</td>
<td>100% of meteostations gauging main meteo parameters</td>
</tr>
<tr>
<td></td>
<td></td>
<td>44%</td>
<td>93% of stream gauges reporting operational data</td>
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<tr>
<td></td>
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<td>70%</td>
<td>87% stream gauges measuring discharges</td>
</tr>
<tr>
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<td>(Comp B: Kyrgyz Republic, IRI 2) Better transmission of data to global telecommunication system (GTS)</td>
<td></td>
<td>86.00</td>
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<td></td>
<td></td>
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<td>100.00</td>
</tr>
<tr>
<td>Revised</td>
<td>(Comp C: Tajikistan, IRI 1) Improved status of hydrometeorological observation networks</td>
<td>19%</td>
<td>90% of meteostations gauging main meteo parameters</td>
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<td>16%</td>
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<td>2x2 km every 6 hours for the</td>
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<tr>
<td></td>
<td>Description</td>
<td>Cost</td>
<td>Description</td>
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<td>No Change</td>
<td>(Component C Tajikistan, IRI 4): Historical data archiving</td>
<td>0.00</td>
<td>800,000.00</td>
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