Technical Assistance Report

Project Number: 47060
Policy and Advisory Technical Assistance (PATA)
September 2013

People’s Republic of China: Weihe River Watershed Management in Shaanxi

Asian Development Bank
CURRENCY EQUIVALENTS  
(as of 10 September 2013)

Currency unit – yuan (CNY)  
CNY1.00 = $0.1576  
$1.00 = CNY6.3438

ABBREVIATIONS

ADB – Asian Development Bank  
SPG – Shaanxi provincial government  
SPWRD – Shaanxi Provincial Water Resources Department  
PRC – People’s Republic of China  
TA – technical assistance  
WRMB – Weihe River Management Bureau

TECHNICAL ASSISTANCE CLASSIFICATION

Type – Policy and advisory technical assistance (PATA)  
Targeting classification – General intervention  
Sector (subsector) – Agriculture and natural resources (water-based natural resource management; irrigation, drainage and flood protection)  
Themes (subthemes) – Environmental sustainability (environmental policy and legislation), capacity development (institutional development)  
Location (impact) – Rural (high), urban (medium), national (low)

NOTE

In this report, "$" refers to US dollars.

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I. INTRODUCTION

1. During the Asian Development Bank (ADB) country programming mission in December 2012, the Government of the People’s Republic of China (PRC) requested ADB to provide policy and advisory technical assistance (TA) to help the Shaanxi provincial government (SPG) with watershed management for the Weihe River. The TA was then included in ADB’s country operations business plan, 2013–2015 for the PRC. In April 2013, an ADB mission visited Shaanxi Province, and reached an understanding with the SPG on the TA impact, outcome, and outputs; cost estimates and financing plan; implementation arrangements; and consultants’ terms of reference. The TA design and monitoring framework is in Appendix 1. The TA will build on achievements of the River Basin and Water Resources Allocation and Management Policy (SPG, 2008), and support SPG efforts for river basin water resources management.

II. ISSUES

2. The Weihe River, the longest tributary of the Yellow River, is considered the main river of Shaanxi. Originating from Niaoshu Mountain in Weiyuan County of Gansu Province, the river runs from west to east through Gansu and Shaanxi provinces and the Ningxia Hui Autonomous Region, and joins the Yellow River at Tongguan County in Shaanxi. It is 818 kilometers (km) long; 502 km are in Shaanxi (61.4% of the total). Historically the river has played an important role in the development of Shaanxi. The Weihe River basin covers 135,000 square kilometers ($km^2$); 67,100 km$^2$ are in Shaanxi (49.7% of the total). The average annual volume of self-generated water resources reaches 6.99 billion cubic meters.

3. Intense economic development since the 1990s within the river watershed has resulted in problems, including increasing water resource scarcity and water pollution. Annually, 317 cubic meters of water are available per capita (13% of the national average). The treatment of waste and polluted water is challenging as 78% of water in the main river channel is classified as exceeding class V.

4. Water flow in the river is currently highly regulated. Twenty-six dams and reservoirs (four are large and the remaining medium-sized) regulate water flow and contribute to hydropower production. The province is nonetheless facing a water resource scarcity primarily due to competing demands for available water resources from the river. Shaanxi has implemented measures to meet stakeholder demands and requirements. However, the lack of a coordinated mechanism to address competing demands has resulted in conflict between administrative units along the river in Shaanxi.

5. To address the broader watershed and water management issues of the Weihe River in Shaanxi, in 2006 the Shaanxi Provincial Water Resources Department (SPWRD) established the Weihe River Management Bureau (WRMB). Water management issues include the need to meet water allocation demands for the Yellow River downstream, in addition to demands of various sectors and administrative units along the Weihe River itself. However, due to the

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1. The TA first appeared in the business opportunities section of ADB’s website on 9 August 2013.
historical WRMB mandate (i.e., scope limited to flood mitigation and water management issues downstream of the Weihe River resulting from sedimentation related to the Sanmenxia dam on the Yellow River), management of the Weihe River watershed continues to be a challenge. The SPG recently invested in river modification projects based on recommendations of the Key Projects for Improvement of the Weihe River Basin, approved by the State Council in 2005. The projects include construction of embankments along various sections of the river to mitigate flooding. A water transfer project from the Han River to the Weihe River, currently being constructed, is to supplement the increased demand for water resources from the Weihe River.

6. In January 2013, the SPG passed the 2012 Shaanxi Provincial Weihe River Watershed Management Regulations, which cover planning, water resources management, water pollution prevention, flood management, river course management, and ecological rehabilitation. In light of these new regulations, the technical assistance (TA) will (i) review the range of key water management issues affecting Weihe River, and prepare a strategic framework with management recommendations; and (ii) provide recommendations for improved organizational arrangements for watershed and water resources management in the Weihe River.

III. THE TECHNICAL ASSISTANCE

A. Impact and Outcome

7. The TA will contribute to improved environmental management and sustainable development in Shaanxi by supporting SPG efforts to enhance watershed management approaches to improve water resources management. The impact will be the sustainable management of water resources in the Weihe River basin in Shaanxi province. The outcome will be improved strategic planning and organizational arrangements for management of the Weihe River watershed.

B. Methodology and Key Activities

8. The TA will have three outputs: (i) a strategic framework with management recommendations for watershed and water resources management in the Weihe River basin; (ii) improved organizational setup for management of the Weihe River watershed; and (iii) enhanced communication and awareness of river basin water management issues. As water management and allocation is often a very challenging topic due to the range of stakeholders and competing demands, the TA will incorporate the principles of integrated water resources management from the onset of TA implementation. Key stakeholders and sectors will be engaged from the start to support the development of the strategic framework for water resources management. Numerous small-scale consultation workshops with key water user groups and administrative units are anticipated during TA implementation. The communication and participation strategy, which will include transprovincial engagement and input due to the transboundary nature of the Weihe River, will be presented at the TA inception workshop to demonstrate good governance and wide participation in TA implementation.

9. Output 1: A strategic framework with management recommendations for watershed and water resources management in the Weihe River basin. The TA will facilitate the development of a strategic framework and management recommendations for water resources management in the Weihe River basin through a review of major issues affecting water resources management in the basin and introduction of international best practice approaches for integrated basin water resources management. The strategic
framework will also serve to operationalize priorities\textsuperscript{5} identified in the 2012 Shaanxi Provincial Weihe River Watershed Management Regulations, and will build on successes and challenges of past efforts. Development of the framework will consider existing issues and recent river improvement interventions. It may include medium- to long-term methods and approaches\textsuperscript{6} for developing measures to resolve the most urgent water resource management problems, and medium- to long-term approaches to address other priorities identified in the 2012 Shaanxi Provincial Weihe River Watershed Management Regulations. The framework and management recommendations will include the identification and development of a coordinated monitoring program for key water resource management issues. To achieve this output, the following key activities are anticipated: (i) review international approaches for allocating and managing water for multifunctional purposes in highly modified or regulated rivers,\textsuperscript{7} and make recommendations for the Weihe River; (ii) review and identify major issues affecting water resources management and water allocation for the Weihe River, and highlight intermunicipal and potential interprovincial issues; (iii) conduct a study tour of selected river basin management authorities; (iv) prepare recommendations for best practice in water resources management in highly regulated and multifunctional river bodies; and (v) prepare a draft strategic framework with management recommendations\textsuperscript{8} for resolving issues and enhancing cooperation in water resources management in the Weihe River basin.

10. **Output 2: An improved organizational setup for management of the Weihe River watershed.** To support the new WRMB mandate and implementation of the strategic framework and management recommendation in output 1, the TA will review and propose improved organizational arrangements for management of the Weihe River watershed. Anticipated activities include (i) review the organizational and administrative challenges of managing water resources in the Weihe River basin, including assessing key advantages and limitations of the current management and coordination arrangements, and review the existing regulations for Weihe River watershed management and municipal and/or county applications; and (ii) assess in detail the scope and responsibilities of WRMB, and prepare recommendations for organizational improvement of the management of water resources in the river basin.

11. **Output 3: Enhanced communication and awareness of river basin water management issues.** WRMB will take the lead in preparing a comprehensive communications and participation strategy for TA implementation, and ensure relevant stakeholder participation in development of the strategic plan and management recommendations. Activities will include (i) prepare a detailed communication and participation strategy with appropriate milestones to ensure major water management stakeholders are engaged throughout TA implementation; (ii) prepare one academic paper or publication on Weihe River water resources management issues; (iii) prepare a glossy information booklet on water management issues for the river and solutions proposed with relevant stakeholders, i.e., to promote a provincial department of water

\textsuperscript{5} The priorities contained in the 2012 Shaanxi Provincial Weihe River Watershed Management Regulations include planning management, water resources management, water pollution prevention and protection, flood protection management, river course management, ecological construction and protection, management and supervision, and legal responsibilities.

\textsuperscript{6} The proposed approaches may include a comprehensive hydrometeorological monitoring system and licensing system to show how water resources are used and allocated.

\textsuperscript{7} Including flood control, irrigation, power generation, urban water supply, and ecological protection.

\textsuperscript{8} The study tour will provide opportunity for local government officials to get access to “international best-practice” approaches for watershed and water resources management in highly regulated and multi-functional river systems. The destination and program for the study tour will be determined during the TA inception phase with input from the international consultant and team leader.

\textsuperscript{9} The WRMB will provide the consultants with the specific priorities and requirements when developing the management recommendations and/or model.
resources to lead the resolution of water management issues for the river; (iv) promote efforts to improve cooperation on Weihe River water management issues in the local media (SPWRD); and (v) summarize key lessons from the strategic planning process in a knowledge product.

12. Major assumptions include (i) relevant sectors have sufficient understanding of the need for more coordinated water resources management and organizational reform, and are committed to making the required changes; and (ii) SPWRD and the Shaanxi Provincial Finance Department have sufficiently strong leadership and mandate. A key risk is that stakeholder groups may have conflicting priorities for water demand; some may not be able to reach consensus on the strategies required for better watershed management in the Weihe River.

C. Cost and Financing

13. The TA is estimated to cost $430,000, of which $350,000 will be financed on a grant basis by ADB’s Technical Assistance Special Fund (TASF–other sources).

14. The government will provide counterpart support in the form of counterpart staff, office space, office supplies, domestic transportation, workshop costs, administrative support, and other in-kind contributions. The cost estimates and financing plan are in Appendix 2.

D. Implementation Arrangements

15. The TA will be implemented from 1 November 2013 to 30 June 2015. WRMB will be the executing agency and the Center for River Engineering Technical Research (a technical division of WRMB) will be the implementing agency. A TA management office is in place and will be responsible for day-to-day operations with ADB, consultants, and related government agencies. The head of WRMB is the executive director of the TA management office and the head of the Center for River Engineering and Technical Research is the deputy director.

16. SPG established a TA leading group to provide guidance on implementation issues and ensure intra- and interdepartmental coordination. The group will provide advice and guidance to the TA management office on interprovincial coordination needs, and ensure participation and inputs from the Yellow River Conservancy Commission throughout TA implementation. The deputy director general of SPWRD chairs the leading group. The division chiefs of the International Cooperation Division of the Shaanxi Provincial Finance Department and the Foreign Cooperation and Science Technology Division of SPWRD will function as deputy chairs. Members of the group include (i) deputy division chief of the International Cooperation Division; (ii) deputy director of the Shaanxi Provincial Weihe River Comprehensive Management Office; (iii) directors of the personnel and water resources divisions of SPWRD; and (iv) deputy directors of the Weinan, Xi’an, and Xianyang municipal water conservancy bureaus.

17. The TA will require 3 person-months of international and 23 person-months of national consulting services. Four national consultants (river basin water resources management specialist and team leader, legal specialist, institutional and organizational reform specialist, and public administration and policy specialist) and one international river basin water resources management specialist will be required for TA implementation. ADB will engage the individual consultants in accordance with the Guidelines on the Use of Consultants (2013, as amended from time to time). Disbursements under the TA will be done following ADB’s Technical Assistance Disbursement Handbook (2010, as amended from time to time). An advance payment facility will be established for TA implementation.
IV. THE PRESIDENT’S DECISION

18. The President, acting under the authority delegated by the Board, has approved the provision of technical assistance not exceeding the equivalent of $350,000 on a grant basis to the Government of the People’s Republic of China for Weihe River Watershed Management in Shaanxi, and hereby reports this action to the Board.
## DESIGN AND MONITORING FRAMEWORK

<table>
<thead>
<tr>
<th>Design Summary</th>
<th>Performance Targets and Indicators with Baselines</th>
<th>Data Sources and Reporting Mechanisms</th>
<th>Assumptions and Risks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Impact</strong></td>
<td>By 2020: The Shaanxi provincial Weihe River Management Bureau achieves the targets for sustainable water and watershed management as set out in the approved strategic plan in accordance with the prescribed timelines.</td>
<td>Annual report of the Shaanxi Provincial Water Resources Department</td>
<td>Assumption: The government is committed to implementing its environmental and sustainable development priorities.</td>
</tr>
<tr>
<td><strong>Outcome</strong></td>
<td>By 2015: The TA leading group endorses the strategic plan and management recommendations for the Weihe River watershed.</td>
<td>Project report reviews Relevant reports and public communications of the Shaanxi Provincial Water Resources Department Annual reports of other relevant agencies</td>
<td>Assumptions: Relevant sectors have sufficient understanding of the need for more coordinated water resources management and organizational reform, and are committed to this change. The Shaanxi Provincial Water Resources Department and the Shaanxi Provincial Finance Department have sufficiently strong leadership and mandate.</td>
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<tr>
<td><strong>Outputs</strong></td>
<td>First draft strategic framework and management recommendations presented by month 10, and second draft presented by month 12 (Baseline: nil)</td>
<td>TA review mission reports and memorandums of understanding Consultant technical reports from study Documentation of regular dialogue and feedback from the executing and implementing agencies</td>
<td>Risk: Concerns and comments from various major water user groups or sectors are not captured and properly incorporated in the strategic plan due to conflict of interest.</td>
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<tr>
<td></td>
<td>The Weihe River Management Bureau initiates process to incorporate key recommendations for the organizational reform process by month 16 (Baseline: current organizational mandate limited to lower reaches of the Weihe River)</td>
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</table>
## Design Summary

### Performance Targets and Indicators with Baselines

<table>
<thead>
<tr>
<th>3. Enhanced communication and awareness of river basin water management issues</th>
<th>50% of the targets outlined in the project communications plan achieved by the interim review mission and 80% achieved by the final review mission by month 16 (Baseline: nil)</th>
<th>Data Sources and Reporting Mechanisms</th>
<th>Assumptions and Risks</th>
</tr>
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<tbody>
<tr>
<td>Draft knowledge product prepared by month 7 and revised knowledge product by month 13</td>
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### Activities with Milestones (after TA commencement)

<table>
<thead>
<tr>
<th>Inputs</th>
<th>ADB: $350,000</th>
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<tbody>
<tr>
<td>Item</td>
<td>Amount ($’000)</td>
</tr>
<tr>
<td>Consulting services</td>
<td>197.5</td>
</tr>
<tr>
<td>International and local travel</td>
<td>15.0</td>
</tr>
<tr>
<td>Reports and communications</td>
<td>20.0</td>
</tr>
<tr>
<td>Training, seminars and conferences</td>
<td>67.5</td>
</tr>
<tr>
<td>Surveys</td>
<td>5.0</td>
</tr>
<tr>
<td>Miscellaneous administration and support costs</td>
<td>10.0</td>
</tr>
<tr>
<td>Contingencies</td>
<td>35.0</td>
</tr>
</tbody>
</table>

**Government:**
Counterpart support in the form of counterpart staff, office space, office supplies, transportation, workshop costs, administrative support, and other in-kind contributions

## Summary

1. **A strategic framework and management recommendations for watershed and water resources management in the Weihe River basin in Shaanxi province**
   1.1 Review international approaches for water allocation and management in highly modified or regulated rivers for multifunctional purposes and recommendations for the river by month 5.
   1.2 Review and identify major issues affecting water resources management and water allocation within the river, and highlight intermunicipal and potential interprovincial issues by month 7.
   1.3 Conduct a study tour to selected river or river basin management authorities by month 7.
   1.4 Prepare recommendations for best practice in water resources management in highly regulated and multifunctional river bodies by month 8.
   1.5 Prepare a draft strategic framework and management recommendations for resolving issues and enhancing cooperation in water resources management in the Weihe River basin by month 9.

2. **An improved organizational setup for management of the Weihe River watershed submitted to the Shaanxi provincial government**
   2.1 Review the organizational and administrative challenges in managing water resources in the river basin, including assessment of key advantages and limitations of current management and coordination arrangements; and review approved regulations for Weihe River watershed management and municipal and/or county applications, by month 9.
   2.2 Assess in detail the scope and responsibilities of the Weihe River Management Bureau, and recommend an organizational setup for managing water resources in the river basin. Based on priorities
identified in output 1, prepare recommendations for the structure, responsibility, and operational mechanisms of the improved institutional setup for the coordination and management of water resources in the river basin by month 9.

3. **Enhanced communication and awareness of river basin water management issues**

   3.1 Prepare a detailed communication and participation strategy with appropriate milestones to ensure the engagement of major water management stakeholders throughout TA implementation by month 3.

   3.2 Prepare one academic paper or publication on Weihe River water resources management issues by month 9.

   3.3 Prepare a glossy information booklet on water management issues for the Weihe River and solutions proposed with relevant stakeholders, i.e., to promote the Shaanxi Provincial Water Resources Department in leading the resolution of water management issues for the Weihe River, by month 9.

   3.4 Promote efforts for improved cooperation on Weihe River water management issues in the local media (SPWRD).

   3.5 Summarize lessons from the strategic planning process in a knowledge product by month 13.

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ADB = Asian Development Bank, TA = technical assistance.

* The starting point of all references to “by month xx” in this section is from the estimated TA effectiveness date of 1 November 2013.

# COST ESTIMATES AND FINANCING PLAN

($’000)

<table>
<thead>
<tr>
<th>Item</th>
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<tbody>
<tr>
<td><strong>Asian Development Bank</strong>^a</td>
<td></td>
</tr>
<tr>
<td>1. Consultants</td>
<td></td>
</tr>
<tr>
<td>a. Remuneration and per diem</td>
<td></td>
</tr>
<tr>
<td>i. International consultants</td>
<td>69.0</td>
</tr>
<tr>
<td>ii. National consultants</td>
<td>128.5</td>
</tr>
<tr>
<td>b. International and local travel^b</td>
<td>15.0</td>
</tr>
<tr>
<td>c. Reports and communications^c</td>
<td>20.0</td>
</tr>
<tr>
<td>2. Training, seminars and conferences^d</td>
<td>67.5</td>
</tr>
<tr>
<td>3. Surveys^b</td>
<td>5.0</td>
</tr>
<tr>
<td>4. Miscellaneous administration and support costs</td>
<td>10.0</td>
</tr>
<tr>
<td>5. Contingencies</td>
<td>35.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>350.0</td>
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</tbody>
</table>

Note: The technical assistance (TA) is estimated to cost $430,000, of which contributions from the Asian Development Bank are presented in the table above. The government will provide counterpart staff, office space, office supplies, secretarial assistance, domestic transportation, workshop costs, and other in-kind contributions. The value of government contribution is estimated to account for 18.6% of the total TA cost.  

^a Financed by the Asian Development Bank’s Technical Assistance Special Fund (TASF–other sources).  
^b For national and international consultants.  
^c Includes translation costs for reports, printing final copies, and editing a knowledge product.  
^d Includes inception, interim, and final workshops, and one international study tour. The international study tour is estimated to cost $25,000.  
^e Includes allocation for research assistants to support national consultants during the field work.  

Source: Asian Development Bank estimates.
OUTLINE TERMS OF REFERENCE FOR CONSULTANTS

1. The technical assistance (TA) will require 3 person-months of international and 23 person-months of national consulting services. The Asian Development Bank (ADB) will engage five individual consultants (four national and one international) following the Guidelines on the Use of Consultants (2013, as amended from time to time).

2. **River basin water resources management specialist and team leader** (national, 10 person-months). The specialist will be responsible for overall coordination and supervision of TA activities and outputs, and day-to-day liaison with the executing and implementing agencies as well as with other relevant agencies supporting the work. The specialist will have (i) a postgraduate degree in environment or water resources management or engineering, (ii) sound understanding and experience in integrated water resources management principles and processes and river basin management, (iii) demonstrated experience in leading multidisciplinary teams, (iv) experience in strategic planning and conflict resolution related to water resources management and water allocation, and (v) demonstrated knowledge and working experience in the People’s Republic of China (PRC) on water resources management issues. The specialist will have the following specific responsibilities:

   (i) develop the overall detailed study framework, and draft the TA inception, midterm, and final reports along with inputs from other team members;
   (ii) function as the leading expert on the national review, including successes in Shaanxi and other provinces in river and watershed management;
   (iii) support the executing agency in preparing and implementing an effective communication and participation strategy to ensure appropriate participation from key stakeholders and agencies concerned, including strategies for inputs from the concerned provinces and the Yellow River Conservancy Commission;
   (iv) prepare a draft strategic plan and management recommendations for the Weihe River watershed management priorities based on international best practice principles, provincial regulations and issues, and feedback from provincial consultation workshops;
   (v) supervise the national consultants in their respective components, and consolidate all the review reports prepared by the international and national specialists;
   (vi) organize and give presentations during workshops and seminars;
   (vii) assist the executing agency in identifying target institutions for the study tour, and assist in preparing the program for the study tour;
   (viii) coordinate and ensure comprehensive review and feedback from key stakeholders is received on all TA outputs and reports;
   (ix) coordinate inputs from individual experts and relevant stakeholders, and take the lead in preparation of the glossy information booklet and knowledge product;
   (x) manage and ensure timely implementation of the project activities;
   (xi) draft and finalize the TA inception, midterm, and final reports;
   (xii) assist the executing and implementing agencies in communicating with the Shaanxi Provincial Water Resources Department (SPWRD) on key information updates and progress to be posted on the provincial website and ensure timely completion of the TA; and
   (xiii) assist the executing and implementing agencies in preparing cost estimates for the consultation workshops and ensuring timely liquidation of all advances received.
3. **River basin water resources management specialist** (international, 3 person-months). The specialist will support the team leader and will have (i) a postgraduate degree in environmental sciences, water management, or a related field, with at least 10 years of relevant experience; (ii) a sound understanding of international approaches to river basin and water resources management; (iii) experience in developing strategic river basin water management plans, especially in highly modified and regulated rivers; and (iv) demonstrated experience in similar assignments. The specialist will have the following specific responsibilities:

(i) provide inputs to the inception report in terms of the detailed scope, schedule, proposed activities, and implementation plan to achieve the intended TA outputs and outcome;

(ii) in collaboration with the team leader, identify key issues affecting the Weihe River watershed (with emphasis on water resources management and allocation) through literature review, rapid assessments, consultations with key agencies and stakeholders, including the Yellow River Conservancy Commission;

(iii) review existing international methodologies used for river basin and watershed management considering key issues faced within the Weihe River watershed;

(iv) identify appropriate agencies and organizations in the target country for the study tour and liaise with the agencies and organizations regarding the study tour program;

(v) in collaboration with the national experts, review existing provincial and national priorities or legal instruments in place relating to Weihe River watershed management;

(vi) review and provide recommendations and inputs relating to the strategic plan, management recommendations, and organizational setup for management of the Weihe River watershed;

(vii) provide recommendations on the development of comprehensive hydrometeorological monitoring and licensing systems for water resources use and allocation, and relevant supporting information systems;

(viii) review and comment on the academic paper prepared by the implementing agency;

(ix) give presentations at workshops and seminars; and

(x) provide inputs in other related technical tasks as requested by the team leader.

4. **Legal specialist** (national, 3 person-months). The specialist will be responsible primarily for reviewing the 2013 provincial regulations for watershed management in Shaanxi and giving advice on practical implications relating to the development of the Weihe River watershed strategic plan. The specialist will have (i) a postgraduate degree in law; (ii) a sound understanding of the environmental legal system in the PRC; (iii) at least 5 years of practical experience in legal aspects of environment and water- and watershed-related projects in the PRC; and (iv) demonstrated experience in similar assignments and with international organizations. The specialist will have the following specific responsibilities:

(i) function as the leading expert on the provincial review of the relevant legislation related to water resources management within the Weihe River watershed;

(ii) review the 2012 Shaanxi Provincial Weihe River Watershed Management Regulations, and provide recommendations for implications relating to their practical application throughout the Weihe River watershed;

(iii) provide inputs on priorities identified in the draft strategic plan and proposal for the new organizational setup for the Weihe River Management Bureau;

(iv) organize and give presentations during workshops and seminars; and

(v) provide inputs to the TA inception, midterm, and final reports.
5. **Institutional and organizational reform specialist** (national, 5 person-months). The specialist will be responsible for conducting analyses of key organizational arrangements and providing detailed recommendations for the new organizational setup for the Weihe River Management Bureau of SPWRD. The specialist will support the team leader and will have (i) a university degree in public management, policy, business management, or other related field, preferably with a postgraduate degree, and with at least 8 years of relevant experience; (ii) a good understanding of organizational and institutional arrangement issues related to the environment and water management in the PRC; and (iii) demonstrated experience in similar assignments. The specialist will have the following specific responsibilities:

   (i) work together with the team leader to refine the overall study framework and outlines of inception, interim, and final TA reports;
   (ii) review the existing organizational setup of the Weihe River Management Bureau, and prepare an analysis and recommendations based on the revised mandate for this organization;
   (iii) review the organizational setup and functions of similar institutions in the PRC and internationally (based on the review of the international specialist), and prepare recommendations for improved arrangements;
   (iv) give presentations at workshops and seminars;
   (v) provide inputs into the TA inception, interim, and final reports; and
   (vi) provide inputs in other related technical tasks as assigned by the team leader.

6. **Public administration and policy specialist** (national, 5 person-months). The specialist will be responsible for assessing and providing key recommendations on public administration-related issues and budget requirements based on the newly proposed organizational arrangements for Weihe River watershed management. The specialist will support the national institutional and organization reform specialist; and will have (i) a university degree in public administration or a related field; (ii) at least 5 years of relevant experience in public administration in the PRC related to the environment; and (iii) demonstrated experience in similar assignments. The specialist will have the following specific responsibilities:

   (i) review existing domestic administration systems related to institutions responsible for watershed management or relevant bodies;
   (ii) provide specific recommendations on the overall idea, strategy, and program for optimizing functions and responsibilities, and coordinating mechanisms for the proposed organizational reform of Weihe River watershed management;
   (iii) give presentations at workshops and seminars; and
   (iv) provide inputs in other related technical tasks as requested by the team leader.

7. The team leader will submit the following reports: (i) an inception report within a month after mobilization, (ii) an interim report and draft knowledge product 7 months after mobilization, (iii) a draft final report and revised knowledge product 13 months after mobilization, and (iv) a final report 14 months after mobilization. The final report will reflect comments made by ADB, government agencies, and other relevant parties. The consultants will submit all reports in English and Chinese: six copies each in English and Chinese to the government and three copies of the English version to ADB, including an electronic copy. The reports will be published in Chinese and English, and posted on the ADB and SPWRD websites.