TERMS OF REFERENCE FOR CONSULTANTS

1. The Asian Development Bank (ADB) will engage a total of 15.5 person-months of consulting services (6.0 person-months of international, and 9.5 person-months of national) through individual consultant selection following the ADB Procurement Policy (2017, as amended from time to time) and its associated project administration instructions and/or TA staff instructions. Individual consultants will be recruited because of the need for specialized and country-specific expertise. The required expertise is listed in the table.

<table>
<thead>
<tr>
<th>Consulting Expertise</th>
<th>International Position</th>
<th>Person-month</th>
<th>National Position</th>
<th>Person-month</th>
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<tbody>
<tr>
<td>Team leader/industry green growth expert</td>
<td>3.5 Fiscal policy expert</td>
<td>3.0</td>
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<tr>
<td>Industrial chain and circular economy expert</td>
<td>1.5 Deputy team leader/Industrial chain and circular economy expert</td>
<td>5.0</td>
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<tr>
<td>Green finance expert</td>
<td>1.0 Green finance expert</td>
<td>1.5</td>
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<td><strong>Total</strong></td>
<td><strong>6.0</strong> <strong>Total</strong></td>
<td><strong>9.5</strong></td>
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A. International Positions

2. **Team leader and industry green growth expert** (3.5 person-months). The consultant should have expert knowledge and sufficient experience in areas related to green growth policy, evaluation and designing of indicators, and their practical usage, particularly focusing on industry sector’s energy efficiencies, green and low carbon development etc.; understand the relevant situation of green development in Guangdong Province and in the People’s Republic of China (PRC); and have experience in working with the PRC government agencies. The consultant will act as team leader for all the individual consultants and will:

   **As team leader**
   
   (i) provide guidance to the team members on technical matters related to industry green growth and make sure to align the individual inputs with the overall study objectives;
   
   (ii) assign tasks among team members to ensure all the deliverables as a team are covered and delivered on time with quality;
   
   (iii) review the draft inputs prepared by team members, ensure the accuracy (such as referencing or data selection), quality of report structure and language, and professionalism, and provide feedback and suggestions;
   
   (iv) compile the draft inputs prepared by team members and finalize them as deliverables for ADB submission, with the executive summary;
   
   (v) work as a focal point of communication between the implementing agency, consultants, and ADB; and
   
   (vi) join technical assistance (TA) workshops and present the TA progress;

   **As industry green growth expert**
   
   (vii) keep up to date on international and PRC national developments on industry green growth indicators and related policies and provide inputs to the team;
   
   (viii) introduce global case studies of industry green growth indicators and share good or unsuccessful lessons learned to be considered;
   
   (ix) draft relevant section of deliverables relating to Guangdong Industry Green Growth Catalogue and its supporting reports and materials on study methodologies; and the report on an innovative green growth mechanism for Guangdong’s industries;
   
   (x) propose appropriate methods of evaluating the pilot enterprises, industrial parks, and cities;
   
   (xi) propose appropriate latest and innovative evaluation mechanisms or technologies;
(xii) propose international study tour destinations suitable for Guangdong officials to learn industry green growth and practical application of indicators, and support the executing and implementing agencies in communicating with counterpart country agencies and support preparing study objectives; and

(xiii) provide any other inputs required by the ADB project officer and assistance during the implementation of the TA.

3. **Industrial chain and circular economy expert** (1.5 person-months). The consultant should have expert knowledge on the industrial chain and its impact on the environment, the design of circular economy as an efficient industrial process, and ways of measuring the environmental impact and performances of industries as a chain or circular system. The consultant is requested to work closely with the team leader, the national industrial chain and circular economy expert and other team members, and will:
   (i) keep up to date on international and PRC national developments on indicators and related policies regarding measuring the green performance of industrial chain and circular economy and provide inputs to the team;
   (ii) introduce global case studies of evaluating green growth performance of industrial chain and circular economy and share good or unsuccessful lessons learned to be considered;
   (iii) identify unique industrial features of Guangdong and discuss innovative green growth mechanism for Guangdong’s industries;
   (iv) propose an appropriate method of evaluating enterprises, industrial parks and cities;
   (v) draft relevant section of deliverables relating to the drafting of Guangdong Industry Green Growth Catalogue and its supporting reports and materials on study methodologies; and the report on an innovative green growth mechanism for Guangdong’s industries;
   (vi) propose appropriate latest and innovative evaluation mechanisms or technologies;
   (vii) propose international study tour destinations suitable for Guangdong officials to learn industry green growth and practical application of indicators in terms of industrial chain and circular economy, and support the executing and implementing agencies in communicating with counterpart country agencies and support preparing study objectives;
   (viii) by working with green finance experts, identify possible future projects for preliminary consideration for potential green financing;
   (ix) participate in TA workshops and discussions; and
   (x) provide any other inputs required by the ADB project officer and consultant team leader, and assistance during implementation of the TA.

4. **Green finance expert** (1.0 person-month). The consultant should have expert knowledge of global trend of green financing and innovative government green financing mechanisms. The consultant is requested to work closely with the team leader, the national green finance expert and other team members, and will:
   (i) keep up to date on international and PRC national developments on green financing practices and mechanisms and provide inputs to the team;
   (ii) introduce global cases of linking green growth performance of industrial chain and circular economy with investments, and share good or unsuccessful lessons learned to be considered;
   (iii) assess the ongoing practices of green financing in the PRC, and identify the situation in Guangdong;
   (iv) propose an innovative green financing project design proposal which meets the needs of Guangdong’s local conditions;
propose international study tour destinations suitable for Guangdong officials to learn innovative policies on green finance, and credit and policy coordination, and support the executing and implementing agencies in communicating with counterpart country agencies and support preparing study objectives;

(vi) prepare a roadmap for Guangdong in establishing green financing mechanisms and implement it;

(vii) by working with industrial chain and circular economy experts, identify possible future projects for preliminary consideration for potential green financing;

(viii) participate in TA workshops and discussions; and

(ix) provide any other inputs required by the ADB project officer and consultant team leader, and assistance during implementation of the TA.

B. National Positions

5. Fiscal policy expert (3.0 person-months). The consultant is preferred to have expert knowledge of fiscal policies in the PRC, reputable research experience of fiscal policies in the PRC; and experience in conducting research with the central or provincial financial departments. The consultant is required to have expert views on fiscal reform, familiarity with Guangdong’s financial situation, and the ability to comprehensively study the provincial fiscal transfer payment system, regional ecological compensation system, and the ability to promote the formation of systems and mechanisms to promote green development and provide relevant policy recommendations. The consultant is requested to have English communication ability and work closely with the team leader, green finance experts, and other team members, and will:

(i) introduce PRC and foreign fiscal reform experiences and case studies, and share relevant experiences of other provinces and cities by fully understanding the fiscal situation of the PRC and Guangdong Province and fiscal reform situation in Guangdong Province;

(ii) provide policy suggestions to improve the system by comprehensively studying the provincial fiscal transfer payment system in Guangdong Province;

(iii) provide policy suggestions to improve the regional ecological compensation system, including improvement of the ecological protection compensation measures in Guangdong Province by thoroughly studying the regional ecological compensation system;

(iv) propose institutional mechanisms to promote green development and put forward relevant policy recommendations including financial support policies in agricultural subsidies, policies to support green and low-carbon circular economy development, policies to “make skies blue again,” and so on;

(v) provide guidance to the team members related to PRC fiscal system that relates to green growth, and identify unique Guangdong provincial situation, if any;

(vi) provide inputs to discuss financial support mechanisms to promote industry green growth;

(vii) introduce domestic case studies of fiscal policies that relate to industries green growth and potential green financing mechanism design for Guangdong;

(viii) draft relevant section of deliverables relating to innovative green growth mechanism for Guangdong’s industries;

(ix) propose domestic study tour destinations suitable for Guangdong officials to learn industry transformation and upgrading, innovative policies on green finance, and credit and policy coordination, and support the executing and implementing agencies in communicating with counterpart domestic agencies and support preparing study objectives; and
provide any other inputs required by the ADB project officer and consultant team leader, and assistance during implementation of the TA.

6. **Deputy team leader and industrial chain and circular economy expert** (5.0 person-months). The consultant should have expert knowledge on the industrial chain and its impact on the environment, the design of circular economy as an efficient industrial process, and ways of measuring the environmental impact and performances of industries as a chain or circular system. The consultant is requested to have high English communication ability in both speaking and writing, and requested to work closely with the team leader, the international industrial chain and circular economy expert and other team members, and will:
   - **As deputy team leader**
     1. support the team leader in compiling the draft inputs prepared by team members and finalize them as deliverables for ADB submission, with the executive summary;
     2. work as a focal point of communication between the ADB, team leader and the executing and implementing agencies in the Chinese language where necessary;
     3. if the reports need to be prepared in the Chinese language in parallel to the English report, make sure of the quality and consistencies between the English and Chinese versions;
     4. join TA workshops and present the TA progress;
     5. support executing and implementing agencies in communicating with counterpart agencies of domestic study tour destinations;
     6. support international consultants in communicating with Chinese stakeholders and relevant agencies for study purposes;
   - **As industrial chain and circular economy expert**
     7. support collecting and evaluating PRC national and Guangdong provincial policies relating to industry green growth;
     8. design and organize the field surveys, onsite visits, and interviews to understand the current status of enterprises, industrial parks and cities' industry green growth in Guangdong;
     9. identify unique industrial features of Guangdong and discuss innovative green growth mechanism for Guangdong's industries;
     10. propose an appropriate method of evaluating enterprises, industrial parks and cities;
     11. draft relevant section of deliverables relating to the drafting of Guangdong Industry Green Growth Catalogue and its supporting reports and materials on study methodologies; and the report on an innovative green growth mechanism for Guangdong's industries;
     12. propose appropriate latest and innovative evaluation mechanisms or technologies;
     13. propose domestic study tour destinations suitable for Guangdong officials to learn industry green growth and practical application of indicators in terms of industrial chain and circular economy, and support the executing and implementing agencies in communicating with counterpart country agencies and support preparing study objectives;
     14. by working with green finance experts, identify possible future projects for preliminary consideration for potential green financing;
     15. participate in TA workshops and discussions; and
     16. provide any other inputs required by the ADB project officer and consultant team leader and assistance during the implementation of the TA.

7. **Green finance expert** (1.5 person-months). The consultant should have expert knowledge of PRC domestic trend of green financing and innovative government green financing
mechanisms. The consultant is requested to work closely with the team leader, the international green finance expert and other team members, and will:

(i) assess the ongoing practices of green financing in the PRC, and identify the situation in Guangdong;

(ii) propose an innovative green financing project design proposal which meets the needs of Guangdong’s local conditions;

(iii) propose domestic study tour destinations suitable for Guangdong officials to learn innovative policies on green finance, and credit and policy coordination, and support the executing and implementing agencies in communicating with counterpart country agencies and support preparing study objectives;

(iv) prepare a roadmap for Guangdong in establishing green financing mechanisms and implement it;

(v) by working with industrial chain and circular economy experts, identify possible future projects for preliminary consideration for potential green financing;

(vi) participate in TA workshops and discussions; and

(vii) provide any other inputs required by the ADB project officer and consultant team leader, and assistance during implementation of the TA.