
LOAN NUMBER 3336-PRC

LOAN AGREEMENT
(Ordinary Operations)

(Hunan Dongjiang Lake Integrated Environmental Protection and Management Project)

between

PEOPLE'S REPUBLIC OF CHINA

and

ASIAN DEVELOPMENT BANK

DATED 16 MARCH 2016

PRC 47070

**LOAN AGREEMENT
(Ordinary Operations)**

LOAN AGREEMENT dated 16 March 2016 between PEOPLE'S REPUBLIC OF CHINA ("Borrower") and ASIAN DEVELOPMENT BANK ("ADB").

WHEREAS

(A) the Borrower has applied to ADB for a loan for the purposes of the Project described in Schedule 1 to this Loan Agreement;

(B) the Project will be carried out by Zixing City Government ("ZCG"), and for this purpose the Borrower will, through Hunan Provincial Government ("HPG"), make available to ZCG the proceeds of the loan provided for herein upon terms and conditions satisfactory to ADB; and

(C) ADB has agreed to make a loan to the Borrower from ADB's ordinary capital resources upon the terms and conditions set forth herein and in the Project Agreement of even date herewith between ADB of one part, and HPG and ZCG of the other part;

NOW THEREFORE the parties hereto agree as follows:

ARTICLE I

Loan Regulations; Definitions

Section 1.01. All the provisions of the Ordinary Operations Loan Regulations Applicable to LIBOR-Based Loans Made from ADB's Ordinary Capital Resources, dated 1 July 2001 ("Loan Regulations"), are hereby made applicable to this Loan Agreement with the same force and effect as if they were fully set forth herein, subject, however, to the following modifications:

(a) Section 2.01(50) is deleted and the following is substituted therefor:

"Project Agreement" means the Project Agreement of even date herewith between ADB of one part, and Hunan Provincial Government and Zixing City Government of the other part.

(b) The term "Project Executing Agency" appearing in Section 7.04(b), 9.01(d), 9.01(f), 9.01(k), 10.01(c) and 10.02(c) of the Loan Regulations shall be substituted by the term "Hunan Provincial Government and Zixing City Government".

(c) Section 3.03 is deleted and the following is substituted therefor:

Commitment Charge; Credit; Maturity Premium. (a)

The Borrower shall pay a commitment charge on the unwithdrawn amount of the Loan at the rate and on the terms specified in the Loan Agreement.

(b) ADB shall provide to the Borrower a credit at the rate specified in the Loan Agreement, which credit shall remain fixed for the term of the Loan. ADB shall apply the credit against the interest payable by the Borrower.

(c) The Borrower shall pay a maturity premium at the rate specified in the Loan Agreement, which maturity premium shall remain fixed for the term of the Loan. ADB shall add the maturity premium to the interest payable by the Borrower.

(d) Section 3.06 is deleted and the following is substituted therefor:

Rebate. (a) Following any announcement by ADB that the Fixed Spread applicable to new Loans shall be reduced, ADB shall provide a Rebate to any Borrower with an outstanding Loan on which a higher Fixed Spread is applicable. The amount of the Rebate shall be determined by multiplying (i) the difference between the Fixed Spread applicable to the outstanding Loan and the Fixed Spread that will be applied to new Loans (expressed as a percentage per annum), by (ii) the principal amount of the outstanding Loan on which the Borrower shall pay interest for all interest periods commencing on and after the effective date of the lower Fixed Spread that will be applied to new Loans.

(b) Following any announcement by ADB that its Funding Cost Margin calculations with respect to any Loan Currency (or Approved Currency) in any Semester resulted in ADB achieving savings, ADB shall provide a Rebate to the Borrower. The amount of the Rebate shall be determined by multiplying (i) the Funding Cost Margin (expressed as a percentage per annum) by (ii) the principal amount of the Loan on which the Borrower shall pay interest for the Interest Period commencing immediately after the Semester for which the Funding Cost Margin was calculated. ADB shall apply the amount of the Rebate against the interest payable by the Borrower for the Interest Period commencing immediately after the Semester for which the Funding Cost Margin was calculated.

(e) Section 3.07 is deleted and the following is substituted therefor:

Surcharge. (a) Following any announcement by ADB that the Fixed Spread applicable to new Loans shall be increased, any Borrower with an outstanding Loan on which a

lower Fixed Spread is applicable shall pay ADB a Surcharge. The amount of the Surcharge shall be determined by multiplying (i) the difference between the Fixed Spread that will be applied to new Loans and the Fixed Spread applicable to the outstanding Loan (expressed as a percentage per annum), by (ii) the principal amount of the outstanding Loan on which the Borrower shall pay interest for all interest periods commencing on and after the effective date of the higher Fixed Spread that will be applied to new Loans.

(b) Following any announcement by ADB that its Funding Cost Margin calculations with respect to any Loan Currency (or Approved Currency) in any Semester resulted in ADB incurring additional costs, the Borrower shall pay ADB a Surcharge. The amount of the Surcharge shall be determined by multiplying (i) the Funding Cost Margin (expressed as a percentage per annum) by (ii) the principal amount of the Loan on which the Borrower shall pay interest for the Interest Period commencing immediately after the Semester for which the Funding Cost Margin was calculated. ADB shall add the amount of the Surcharge to the interest payable by the Borrower for the Interest Period commencing immediately after the Semester for which the Funding Cost Margin was calculated.

Section 1.02. Wherever used in this Loan Agreement, the several terms defined in the Loan Regulations have the respective meanings therein set forth unless modified herein or the context otherwise requires. Additional terms used in this Loan Agreement have the following meanings:

(a) "Consulting Guidelines" means the Guidelines on the Use of Consultants by Asian Development Bank and its Borrowers (2013, as amended from time to time);

(b) "Consulting Services" means the services to be financed out of the proceeds of the Loan to carry out the Project activities as described in Schedule 1 to this Loan Agreement;

(c) "EMDP" means the ethnic minority development plan for the Project, including any update thereto, prepared and submitted by ZCG and cleared by ADB;

(d) "Environmental Impact Assessment" or "EIA" means the environmental impact assessment for the Project, including any update thereto, prepared and submitted by ZCG and cleared by ADB;

(e) "Environmental Management Plan" or "EMP" means the environmental management plan for the Project, including any update thereto, incorporated in the EIA;

(f) "Environmental Safeguards" means the principles and requirements set forth in Chapter V, Appendix 1, and Appendix 4 (as applicable) of the SPS;

(g) "GAP" means the gender action plan for the Project, including any update thereto, prepared and submitted by ZCG and cleared by ADB;

(h) "Goods" means equipment and materials to be financed out of the proceeds of the Loan, including related services such as transportation, insurance, installation, commissioning, training, and initial maintenance, but excluding Consulting Services;

(i) "HIV/AIDS" means human immunodeficiency virus/acquired immune deficiency syndrome;

(j) "Indigenous Peoples Safeguards" means the principles and requirements set forth in Chapter V, Appendix 3, and Appendix 4 (as applicable) of the SPS;

(k) "Involuntary Resettlement Safeguards" means the principles and requirements set forth in Chapter V, Appendix 2, and Appendix 4 (as applicable) of the SPS;

(l) "Loan Disbursement Handbook" means ADB's Loan Disbursement Handbook (2015, as amended from time to time);

(m) "Management Letter" means formal communications from the auditor to the client management in accordance with the International Standard on Auditing 265 (communicating deficiencies in internal control to those charged with governance and management), which is not required to be provided separately as it is equivalent to the Audit Findings and Recommendations prepared by the Project auditor and submitted to ADB;

(n) "O&M" means operation and maintenance of the Project facilities;

(o) "PAM" means the project administration manual for the Project dated 9 October 2015 and agreed between ZCG and ADB, as updated from time to time in accordance with the respective administrative procedures of the Borrower and ADB;

(p) "PMO" means a Project management office, established within ZCG for implementation of the Project and as described in the PAM;

(q) "PPMS" means a Project performance monitoring system to be developed in consultation with ADB;

(r) "Procurement Guidelines" means ADB's Procurement Guidelines (2015, as amended from time to time);

(s) "Procurement Plan" means the procurement plan for the Project dated 9 October 2015 and agreed between ZCG and ADB, as updated from time to time in accordance with the Procurement Guidelines, the Consulting Guidelines, and other arrangements agreed with ADB;

(t) "Project facilities" means facilities to be constructed, procured, rehabilitated and/or maintained under the Project;

(u) "Resettlement Plan" or "RP" means a resettlement plan for the Project, including any update thereto, prepared and submitted by ZCG and cleared by ADB;

(v) "Safeguard Policy Statement" or "SPS" means ADB's Safeguard Policy Statement (2009);

(w) "Safeguards Monitoring Report" means each report prepared and submitted by ZCG to ADB that describes progress with implementation of and compliance with the EMP, EMDP and RP, including any corrective and preventative actions;

(x) "SDAP" means the social development action plan for the Project, including any update thereto, prepared and submitted by ZCG and cleared by ADB;

(y) "Works" means construction or civil works to be financed out of the proceeds of the Loan, including services such as drilling or mapping, and project related services that are provided as part of a single responsibility or turnkey contract, but excluding Consulting Services; and

(z) "ZIFC" means the Zixing City Urban and Rural Environmental Protection Investment and Financing Center, which implements the Project, as more fully described in the PAM.

ARTICLE II

The Loan

Section 2.01. (a) ADB agrees to lend to the Borrower from ADB's ordinary capital resources an amount of one hundred thirty million Dollars (\$130,000,000), as such amount may be converted from time to time through a Currency Conversion in accordance with the provisions of Section 2.06 of this Loan Agreement.

(b) The Loan has a principal repayment period of 20 years, and a grace period as defined in subsection (c) hereinafter.

(c) The term "grace period" as used in subsection (b) hereinabove means the period prior to the first Principal Payment Date in accordance with the amortization schedule set forth in Schedule 2 to this Loan Agreement.

Section 2.02. The Borrower shall pay to ADB interest on the principal amount of the Loan withdrawn and outstanding from time to time at a rate for each Interest Period equal to the sum of:

- (a) LIBOR;
- (b) 0.60% as provided by Section 3.02 of the Loan Regulations less a credit of 0.10% as provided by Section 3.03 of the Loan Regulations; and
- (c) a maturity premium of 0.20% as provided by Section 3.03 of the Loan Regulations.

Section 2.03. The Borrower shall pay a commitment charge of 0.15% per annum. Such charge shall accrue on the full amount of the Loan (less amounts withdrawn from time to time), commencing 60 days after the date of this Loan Agreement.

Section 2.04. Interest and other charges on the Loan shall be payable semiannually on 15 May and 15 November in each year.

Section 2.05. The Borrower shall repay the principal amount of the Loan withdrawn from the Loan Account in accordance with the provisions of Schedule 2 to this Loan Agreement.

Section 2.06. (a) The Borrower may at any time request any of the following Conversions of the terms of the Loan in order to facilitate prudent debt management:

- (i) a change of the Loan Currency of all or any portion of the principal amount of the Loan, whether withdrawn and outstanding or unwithdrawn, to an Approved Currency;
- (ii) a change of the interest rate basis applicable to all or any portion of the principal amount of the Loan withdrawn and outstanding from a Floating Rate to a Fixed Rate, or vice versa; and
- (iii) the setting of limits on the Floating Rate applicable to all or any portion of the principal amount of the Loan withdrawn and outstanding by the establishment of an Interest Rate Cap or Interest Rate Collar on said Floating Rate.

(b) Any conversion requested pursuant to subsection (a) hereinabove that is accepted by ADB shall be considered a "Conversion", as defined in Section 2.01(6) of the Loan Regulations, and shall be effected in accordance with the provisions of Article V of the Loan Regulations and the Conversion Guidelines.

ARTICLE III

Use of Proceeds of the Loan

Section 3.01. (a) The Borrower shall relend the proceeds of the Loan, through HPG, to ZCG upon terms and conditions acceptable to ADB. Except as ADB may otherwise agree, the terms for the proceeds of the Loan made available to ZCG shall include (i) commitment charge and interest at the rates identical to those applied to the Loan; (ii) a repayment period including a grace period identical to those applied to the Loan; and (iii) ZCG bearing the foreign exchange and interest rate variation risks of the proceeds of the Loan made available thereto.

(b) The Borrower shall, through HPG, cause ZCG to ensure that the proceeds of the Loan are applied to the financing of expenditures on the Project in accordance with the provisions of this Loan Agreement and the Project Agreement.

Section 3.02. The proceeds of the Loan shall be allocated and withdrawn in accordance with the provisions of Schedule 3 to this Loan Agreement, as such Schedule may be amended from time to time by agreement between the Borrower and ADB.

Section 3.03. Except as ADB may otherwise agree, the Borrower shall procure, or cause to be procured, the items of expenditure to be financed out of the proceeds of the Loan in accordance with the provisions of Schedule 4 to this Loan Agreement. ADB may refuse to finance a contract where any such item has not been procured under procedures substantially in accordance with those agreed between the Borrower and ADB or where the terms and conditions of the contract are not satisfactory to ADB.

Section 3.04. Except as ADB may otherwise agree, the Borrower shall cause all items of expenditure financed out of the proceeds of the Loan to be used exclusively in the carrying out of the Project.

Section 3.05. The Loan Closing Date for the purposes of Section 9.02 of the Loan Regulations shall be 30 June 2021 or such other date as may from time to time be agreed between the Borrower and ADB.

ARTICLE IV

Particular Covenants

Section 4.01. (a) The Borrower shall, through HPG, cause ZCG to carry out the Project with due diligence and efficiency and in conformity with sound applicable technical, financial, business, and development practices.

(b) In the carrying out of the Project and operation of the Project facilities, the Borrower shall perform, or, through HPG, cause ZCG to perform, all obligations set forth in Schedule 5 to this Loan Agreement and the Schedule to the Project Agreement.

Section 4.02. The Borrower shall make available, or, through HPG, cause ZCG to make available, promptly as needed, the funds, facilities, services, land and other resources, as required, in addition to the proceeds of the Loan, for the carrying out of the Project.

Section 4.03. The Borrower shall ensure that the activities of its departments and agencies with respect to the carrying out of the Project and operation of the Project facilities are conducted and coordinated in accordance with sound administrative policies and procedures.

Section 4.04. The Borrower shall, through HPG, cause ZCG to enable ADB's representatives to inspect the Project, the Goods and Works, and any relevant records and documents.

Section 4.05. The Borrower shall take all actions which shall be necessary on its part to enable HPG and ZCG to perform their obligations under the Project Agreement, and shall not take or permit any action which would interfere with the performance of such obligations.

ARTICLE V

Effectiveness

Section 5.01. A date 90 days after the date of this Loan Agreement is specified for the effectiveness of this Loan Agreement for the purposes of Section 10.04 of the Loan Regulations.

ARTICLE VI

Miscellaneous

Section 6.01. The Minister of Finance of the Borrower is designated as representative of the Borrower for the purposes of Section 12.02 of the Loan Regulations.

Section 6.02. The following addresses are specified for the purposes of Section 12.01 of the Loan Regulations:

For the Borrower

Ministry of Finance
Sanlihe, Xicheng District
Beijing 100820
People's Republic of China

Facsimile Number:

+8610 6855-2061.

For ADB

Asian Development Bank
6 ADB Avenue
Mandaluyong City
1550 Metro Manila
Philippines

Facsimile Numbers:

(632) 636-2444
(632) 636-2534.

IN WITNESS WHEREOF the parties hereto, acting through their representatives thereunto duly authorized, have caused this Loan Agreement to be signed in their respective names as of the day and year first above written and to be delivered at the principal office of ADB.

PEOPLE'S REPUBLIC OF CHINA

By



ZHAO JIANHUA

Authorized Representative

ASIAN DEVELOPMENT BANK

By



AYUMI KONISHI

Director General
East Asia Department

SCHEDULE 1

Description of the Project

1. The objective of the Project is to achieve integrated environmental protection in Dongjiang Lake basin.

2. The Project shall comprise the following outputs.

Output 1: Pollution control improved.

- (a) Constructing wastewater treatment plants or facilities, and associated sewage collection pipes;
- (b) providing solid waste collection and compaction equipment, and transfer facilities; and
- (c) developing nonpoint source pollution management.

Output 2: Urban–rural water supply system established.

- (a) Constructing Yangdongxia water supply plant, associated water delivery and supply pipelines and pressure-regulating stations;
- (b) constructing Chukou water supply plant and associated water delivery and supply pipelines; and
- (c) providing necessary O&M equipment.

Output 3: River course rehabilitated. Improving the flood protection standard and reduce soil erosion of major rivers.

Output 4: Integrated ecosystem rehabilitation and management established.

- (a) Establishing aquatic facilities and management;
- (b) constructing wetlands and management facilities;
- (c) carrying out soil erosion control, constructing fire breaks and providing fire-fighting facilities, and application of pest control measures;
- (d) improving bamboo forest;
- (e) carrying out alternative livelihood training for rural residents; and
- (f) carrying out an eco-compensation pilot scheme.

Output 5: Environmental and project management capacity strengthened.

- (a) Establishing environment related monitoring and research centers, and environment management information system;
- (b) providing Project implementation consulting services, training and workshops; and
- (c) establishing a Project monitoring and evaluation system.

3. The Project is expected to be completed by 31 December 2020.

SCHEDULE 2

Amortization Schedule

(Hunan Dongjiang Lake Integrated Environmental Protection and Management Project)

1. The following table sets forth the Principal Payment Dates of the Loan and the percentage of the total principal amount of the Loan payable on each Principal Payment Date (Installment Share). If the proceeds of the Loan shall have been fully withdrawn as of the first Principal Payment Date, the principal amount of the Loan repayable by the Borrower on each Principal Payment Date shall be determined by ADB by multiplying: (a) the total principal amount of the Loan withdrawn and outstanding as of the first Principal Payment Date; by (b) the Installment Share for each Principal Payment Date, such repayment amount to be adjusted, as necessary, to deduct any amounts referred to in paragraph 4 of this Schedule, to which a Currency Conversion applies.

<u>Payment Due</u>	<u>Installment Share</u> (Expressed as a % based on 10% annuity)
15 May 2021	0.827816
15 November 2021	0.869207
15 May 2022	0.912667
15 November 2022	0.958301
15 May 2023	1.006216
15 November 2023	1.056526
15 May 2024	1.109353
15 November 2024	1.164820
15 May 2025	1.223061
15 November 2025	1.284214
15 May 2026	1.348425
15 November 2026	1.415846
15 May 2027	1.486639
15 November 2027	1.560971
15 May 2028	1.639019
15 November 2028	1.720970
15 May 2029	1.807019
15 November 2029	1.897369
15 May 2030	1.992238
15 November 2030	2.091850
15 May 2031	2.196442
15 November 2031	2.306264
15 May 2032	2.421578
15 November 2032	2.542657
15 May 2033	2.669789
15 November 2033	2.803279
15 May 2034	2.943443
15 November 2034	3.090615
15 May 2035	3.245146

<u>Payment Due</u>	<u>Installment Share</u> (Expressed as a % based on 10% annuity)
15 November 2035	3.407403
15 May 2036	3.577773
15 November 2036	3.756662
15 May 2037	3.944495
15 November 2037	4.141720
15 May 2038	4.348806
15 November 2038	4.566246
15 May 2039	4.794558
15 November 2039	5.034286
15 May 2040	5.286000
15 November 2040	5.550311
Total	100.000000

2. If the proceeds of the Loan shall not have been fully withdrawn as of the first Principal Payment Date, the principal amount of the Loan repayable by the Borrower on each Principal Payment Date shall be determined as follows:

(a) To the extent that any proceeds of the Loan shall have been withdrawn as of the first Principal Payment Date, the Borrower shall repay the amount withdrawn and outstanding as of such date in accordance with paragraph 1 of this Schedule.

(b) Any withdrawal made after the first Principal Payment Date shall be repaid on each Principal Payment Date falling after the date of such withdrawal in amounts determined by ADB by multiplying the amount of each such withdrawal by a fraction, the numerator of which shall be the original Installment Share specified in the table in paragraph 1 of this Schedule for said Principal Payment Date (the Original Installment Share) and the denominator of which shall be the sum of all remaining Original Installment Shares for Principal Payment Dates falling on or after such date, such repayment amounts to be adjusted, as necessary, to deduct any amounts referred to in paragraph 4 of this Schedule, to which a Currency Conversion applies.

3. Withdrawals made within two calendar months prior to any Principal Payment Date shall, for the purposes solely of calculating the principal amounts payable on any Principal Payment Date, be treated as withdrawn and outstanding on the second Principal Payment Date following the date of withdrawal and shall be repayable on each Principal Payment Date commencing with the second Principal Payment Date following the date of withdrawal.

4. Notwithstanding the provisions of paragraphs 1 and 2 of this Schedule, upon a Currency Conversion of all or any portion of the withdrawn principal amount of the Loan to an Approved Currency, the amount so converted in said Approved Currency that shall be repayable on any Principal Payment Date occurring during the Conversion Period, shall be determined by ADB by multiplying such amount in its currency of denomination immediately prior to said Conversion by either: (i) the exchange rate that reflects the amounts of principal in said Approved Currency payable by ADB under the Currency Hedge Transaction relating to said Conversion; or (ii) if ADB so determines in accordance with the Conversion Guidelines, the exchange rate component of the Screen Rate.

5. If the principal amount of the Loan withdrawn and outstanding from time to time shall be denominated in more than one Loan Currency, the provisions of this Schedule shall apply separately to the amount denominated in each Loan Currency, so as to produce a separate amortization schedule for each such amount.

SCHEDULE 3

Allocation and Withdrawal of Loan Proceeds

General

1. The table attached to this Schedule sets forth the Categories of items of expenditure to be financed out of the proceeds of the Loan and the allocation of the Loan proceeds to each such Category ("Table"). (Reference to "Category" in this Schedule is to a Category or Subcategory of the Table).

Basis for Withdrawal from the Loan Account

2. Except as ADB may otherwise agree, the proceeds of the Loan shall be disbursed on the basis of the withdrawal percentage for each item of expenditure set forth in the Table.

Interest and Commitment Charges

3. The amount allocated to Category 5 is for financing interest and commitment charges on the Loan during the implementation period of the Project. ADB shall be entitled to withdraw from the Loan Account and pay to itself, on behalf of the Borrower, the amounts required to meet payments, when due, of such interest and commitment charges.

Reallocation

4. Notwithstanding the allocation of Loan proceeds and the withdrawal percentages set forth in the Table,

(a) if the amount of the Loan allocated to any Category appears to be insufficient to finance all agreed expenditures in that Category, ADB may, in consultation with the Borrower, (i) reallocate to such Category, to the extent required to meet the estimated shortfall, amounts of the Loan which have been allocated to another Category but, in the opinion of ADB, are not needed to meet other expenditures, and (ii) if such reallocation cannot fully meet the estimated shortfall, reduce the withdrawal percentage applicable to such expenditures in order that further withdrawals under such Category may continue until all expenditures thereunder shall have been made; and

(b) if the amount of the Loan allocated to any Category appears to exceed all agreed expenditures in that Category, ADB may, in consultation with the Borrower, reallocate such excess amount to any other Category.

Disbursement Procedures

5. Except as ADB may otherwise agree, the Loan proceeds shall be disbursed in accordance with the Loan Disbursement Handbook.

Imprest Account and Statement of Expenditures

6. (a) Except as ADB may otherwise agree, the Borrower shall cause the Hunan Provincial Department of Finance to establish immediately after the Effective Date, an imprest account at a commercial bank acceptable to ADB. The imprest account shall be established, managed, replenished and liquidated in accordance with the Loan Disbursement Handbook, and detailed arrangements agreed upon between the Borrower and ADB. The imprest account shall be used only for the Project. The currency of the imprest account shall be the Dollar.

(b) The statement of expenditures procedure may be used for reimbursement of eligible expenditures and to liquidate advances provided into the imprest account, in accordance with the Loan Disbursement Handbook and detailed arrangements agreed upon between the Borrower and ADB.

Retroactive Financing

7. Withdrawals from the Loan Account may be made for reimbursement of eligible expenditures incurred under the Project before the Effective Date, but not earlier than 12 months before the date of this Loan Agreement in connection with Goods and Works, subject to a maximum amount equivalent to 20% of the Loan amount.

TABLE

ALLOCATION AND WITHDRAWAL OF LOAN PROCEEDS (Hunan Dongjiang Lake Integrated Environmental Protection and Management Project)				
Number	Item	Total Amount Allocated for ADB Financing (\$)		Basis for Withdrawal from the Loan Account
		Category	Subcategory	
1	Works	72,100,100		63% of total expenditure
2	Equipment and Materials	25,358,722		
2A	Green Fertilizers for Agricultural Non-Point- Source Pollution		2,185,722	35% of total expenditure
2B	Equipment and Materials Other Than Subcategory 2A above*		23,173,000	100% of total expenditure
3	Consulting Services and Training	9,600,000		100% of total expenditure
4	Ecosystem Management with Community Participation	18,397,968		50% of total expenditure
5	Interest and Commitment Charges	4,543,210		100% of amount due
	Total	130,000,000		

* This subcategory includes (a) Green Chemicals for Pests and Plants for Agricultural Non-Point-Source Pollution, (b) Solid Waste Management, (c) Water Supply, (d) Ecosystem Rehabilitation and Management (Fishery Resource Protection and Fire Prevention), and (e) Environment Monitoring.

SCHEDULE 4

Procurement of Goods, Works and Consulting Services

General

1. The procurement of Goods, Works and Consulting Services shall be subject to and governed by the Procurement Guidelines, and the Consulting Guidelines, respectively.
2. All terms used in this Schedule and not otherwise defined in this Loan Agreement have the meanings provided in the Procurement Guidelines and/or the Consulting Guidelines, as applicable.

Goods and Works

3. Except as ADB may otherwise agree, Goods and Works shall only be procured on the basis of the methods of procurement set forth below:
 - (a) International Competitive Bidding;
 - (b) National Competitive Bidding;
 - (c) Community Participation in Procurement; and
 - (d) Shopping.
4. The methods of procurement are subject to, among other things, the detailed arrangements and threshold values set forth in the Procurement Plan. The Borrower may only modify the methods of procurement or threshold values with the prior agreement of ADB, and modifications must be set out in updates to the Procurement Plan.

Domestic Preference

5. The Borrower may grant a margin of preference in the evaluation of bids under international competitive bidding in accordance with paragraphs 2.55(a) and 2.56 of the Procurement Guidelines for domestically manufactured Goods .

National Competitive Bidding

6. The Borrower and ADB shall ensure that, prior to the commencement of any procurement activity under national competitive bidding, the Borrower's national competitive bidding procedures are consistent with the Procurement Guidelines. Any modifications or clarifications to such procedures agreed between the Borrower and ADB shall be set out in the Procurement Plan. Any subsequent change to the agreed modifications and clarifications shall become effective only after approval of such change by the Borrower and ADB.

Community Participation in Procurement

7. The Borrower may use community participation in procurement for items as described in the Procurement Plan in accordance with the agreed procedures.

Conditions for Award of Contract

8. The Borrower shall, through HPG, cause ZCG and ZIFC not to award any Works contracts until:

- (a) HPG has granted the final approval of the EIA; and
- (b) ZCG and ZIFC have caused the relevant provisions to be incorporated from the EMP into the Works contract.

9. The Borrower shall, through HPG, cause ZCG and ZIFC not to award any Works contract which involves involuntary resettlement and/or indigenous peoples impacts until ZCG has (a) updated the relevant RP and EMDP based on the final detailed design, including detailed measurement surveys; (b) submitted such updated RP and EMDP to ADB for its concurrence; and (c) disclosed to affected people in accordance with ADB's applicable information disclosure requirements for resettlement and indigenous peoples.

Consulting Services

10. Except as ADB may otherwise agree, and except as set forth in the paragraph below, the Borrower shall, through HPG, cause ZCG to apply quality- and cost-based selection for selecting and engaging Consulting Services.

11. The Borrower shall, through HPG, cause ZCG to apply the following method for selecting and engaging the specified Consulting Services, in accordance with, among other things, the procedures set forth in the Procurement Plan: Single Source Selection for livelihood training.

Industrial or Intellectual Property Rights

12. (a) The Borrower shall, through HPG, cause ZCG to ensure that all Goods and Works procured (including without limitation all computer hardware, software and systems, whether separately procured or incorporated within other goods and services procured) do not violate or infringe any industrial property or intellectual property right or claim of any third party.

(b) The Borrower shall, through HPG, cause ZCG to ensure that all contracts for the procurement of Goods and Works contain appropriate representations, warranties and, if appropriate, indemnities from the contractor or supplier with respect to the matters referred to in subparagraph (a) of this paragraph.

13. The Borrower shall, through HPG, cause ZCG to ensure that all ADB-financed contracts with consultants contain appropriate representations, warranties and, if appropriate, indemnities from the consultants to ensure that the Consulting Services provided do not violate or infringe any industrial property or intellectual property right or claim of any third party.

ADB's Review of Procurement Decisions

14. Contracts procured under international competitive bidding procedures and contracts for Consulting Services shall be subject to prior review by ADB, unless otherwise agreed between the Borrower and ADB and set forth in the Procurement Plan.

SCHEDULE 5**Execution of Project and Financial Matters**Implementation Arrangements

1. The Borrower, through HPG, shall cause ZCG to ensure that the Project is implemented in accordance with the detailed arrangements set forth in the PAM. Any subsequent change to the PAM shall become effective only after approval of such change by HPG, ZCG and ADB. In the event of any discrepancy between the PAM and this Loan Agreement, the provisions of this Loan Agreement shall prevail.

Counterpart Financing

2. The Borrower shall, through HPG, cause ZCG to ensure that (a) all counterpart funds are made available by ZIFC for Project implementation in a timely manner; and (b) operation and maintenance of all Project facilities is fully funded.