

**JFICT Grant Proposal**

<b>I. Basic Data</b>	
<b>Name of Proposed Activity</b>	Asian Bonds Online Web Site
<b>Country</b>	Cambodia, People's Republic of China (PRC), Indonesia, Republic of Korea, Lao People's Democratic Republic, Malaysia, Myanmar, Philippines, Singapore, Thailand, and Viet Nam
<b>Grant Amount Requested</b>	US\$2,400,000
<b>Regional Project</b>	<input checked="" type="radio"/> <b>Yes</b> / <input type="radio"/> <b>No</b>
<b>Grant Type</b>	<input checked="" type="radio"/> <b>Project</b> / <input type="radio"/> <b>Capacity building</b>

**II. Grant Development Objective(s) and Expected Key Performance Indicators**

<p><b>Grant Development Objectives (GDO):</b></p> <p>To improve information flows for Asian bond markets through the establishment of an Asian Bonds Online Web Site. The improved flows would help to increase the transparency, liquidity, efficiency, and depth of bond markets in Asia, lower funding costs for Asian bond issuers, and facilitate cross-border capital flows. More developed and mature bond markets would enable the private as well as public sector of Asian countries to raise and invest long-term capital with effective management of maturity and currency risks, reduce their economic and financial vulnerabilities, support sustainable economic growth, and contribute to poverty reduction in the region. The Project will also support monetary and financial cooperation in East Asia.</p>
<p><b>Expected Key Performance Indicators (maximum 5 indicators):</b></p> <p>Launch of the Asian Bonds Online Web Site in May 2004  Daily updating of the web site until the end of 2006  Web site user statistics  Indicators of bond market activities  Macroeconomic and financial indicators</p>

**III. Grant Categories of Expenditure, Amounts, and Percentage of Expenditures**

Category	Amount of Grant Allocated in US\$	Percentage of Expenditures
1. International Consultants	977,000	40.7
2. Domestic Consultants	824,400	34.4
3. Equipment and Software	79,600	3.3
4. Databases and Subscriptions	200,000	8.3
5. Dissemination Seminars and Workshops	55,000	2.3
6. Office Supplies and Other Miscellaneous Costs	24,000	1.0
7. Contingencies	240,000	10.0
<b>Total</b>	<b>2,400,000</b>	<b>100.0</b>
Incremental Cost	not applicable	not applicable

**JAPAN FUND FOR INFORMATION AND COMMUNICATION TECHNOLOGY (JFICT)**  
**JFICT Grant Proposal**  
**Background Information**

<b>A. Other Data</b>	
<b>Date of Submission of Application</b>	15 December 2003
<b>Project Officer</b> (Name, Position)	Juzhong Zhuang, Principal Economist
<b>Project Officer's Division, E-mail, Phone</b>	Regional Economic Monitoring Unit (REMU) jzhuang@adb.org 00 632 632 5682
<b>Other Staff Who Will Need Access to Edit/Review the Report</b> (Enter the names of all staff, e.g., team members, who will need access to this application.)	Sharad Bhandari, Economist, REMU sbhandari@adb.org 00 632 632 5355
<b>Sector</b>	Finance
<b>Theme</b>	Information and Communication Technology (ICT)/Economic Growth/Regional Cooperation
<b>Name of Associated ADB Financed Operation(s)</b>	Not applicable
<b>Executing Agency</b>	Asian Development Bank
<b>Grant Implementing Agency(ies)</b> (Names, Exact Address, Contact Persons, E-mail, Phone, Fax)	Regional Economic Monitoring Unit of the Asian Development Bank Juzhong Zhuang, jzhuang@adb.org, 00 632 632 5682 (phone), 00 632 636 2183 (fax)

**B. Details of the Proposed Grant**

**1. Description of the Components, Monitorable Deliverables/Outcomes, and Implementation Timetable**

<b>Component A</b>	
Component Name	Development (Creation) of the Asian Bonds Online Web Site
Cost (US\$)	\$458,600 (including contingency)
Component Description	<p>This component will develop a web-based one-stop clearinghouse of information on sovereign and corporate bonds issued in Association of Southeast Asian Nations (ASEAN)+3 (PRC, Japan, and Republic of Korea) countries. Three categories of information related to bond markets will be provided on the web site:</p> <ul style="list-style-type: none"> <li>• Market activities. This covers information on (i) bond issuances, including schedules, maturities, prices, volumes, credit ratings, and issuer profiles; (ii) trading activities, including aggregate trading volumes, market capitalization, movements of prices and spreads, and yield curves; and (iii) market reviews and analyses of performances of bonds, bond markets, corporate issuers, and economies. While the web site is not designed for trading purposes, it will provide links that will help investors to access markets for Asian bonds, including links to investment banks, brokers, dealers, and credit rating agencies.</li> <li>• Legal and regulatory frameworks and market infrastructure. This covers information on (i) legal and regulatory frameworks, including tax laws, bankruptcy laws, and market regulations on bond issuing, listing, and trading; (ii) institutional and organizational settings of bond markets, including clearing and</li> </ul>

	<p>settlement systems, dealership systems, custodianship and registry arrangements, and credit rating services; and (iii) news and analyses on developments in legal and regulatory frameworks and market infrastructure for bond markets.</p> <ul style="list-style-type: none"> <li>Government policies and initiatives. The web site will monitor and provide information on government policies on bond market development and national, subregional, and regional bond market initiatives, including links to the ASEAN Secretariat web site. It will also provide a forum for policy makers and market participants to exchange ideas and opinions on the development of Asian bond markets.</li> </ul>
Monitorable Deliverables/Outputs	Creation of the Asian Bonds Online Web Site and its launch in May 2004 at the ASEAN+3 Finance Ministers meeting at the time of the ADB Annual Meeting in Jeju, Republic of Korea.
Implementation of Major Activities: Number of months from grant activities	6 months
<b>Component B</b>	
Component Name	Operations and maintenance of the web site
Cost (US\$)	\$1,941,400 (including contingency)
Component Description	<p>The web site will be updated on a daily basis.</p> <p>The information to be disseminated through the web site will be collected from a variety of sources, including the private sector (such as financial institutions, business associations, corporate issuers, credit rating agencies, market information providers), concerned government agencies (central banks, ministries of finance, regulatory authorities, bond registries/custodians) and nongovernment agencies (stock and fixed income exchanges), and international and regional organizations. Given the extensive information coverage, the success of the web site will depend crucially on the cooperation of the private sector and concerned government agencies for access to such information.</p> <p>Initially, the focus of the web site will be on providing links to information that is already available on other web sites. Gradually, the web site may generate its own contents, as appropriate. When it is necessary to translate information such as those on legal and regulatory frameworks into English, the translated materials will be considered informational, rather than officially sanctioned by concerned government agencies. Government agencies providing links or information may also choose to provide their own translated versions.</p>
Monitorable Deliverables/Outputs	Provision of information services to target users, including investors, traders, issuers, other participants in East Asian bond markets; government officials; policy analysts and academic researchers; and journalists through daily updating of the web site
Implementation of Major Activities: Number of months from grant activities	30 months

## 2. Financing Plan for Proposed Project to be Supported by JFICT

Financier	US\$
JFICT	2,400,000
Government	0
Other Sources (Please identify)	0
<b>Total</b>	<b>2,400,000</b>

## 3. Genesis

The 1997 Asian financial crisis highlighted the risk of overreliance on bank financing, and the importance of establishing deep, liquid, and mature bond markets in the region. Bond markets, particularly local currency bond markets, offer an effective means of channeling Asian countries' large savings into long-term investment in the region with effective management of currency and maturity risks. Consequently, after the crisis, development of bond markets became an important policy reform agenda item for many Asian governments. More recently, there have been a number of initiatives and concrete actions to facilitate bond market development in Asia at subregional and regional levels. These include the Asian Bond Fund established by the Executives' Meeting of East Asia Pacific Central Banks (EMEAP), the regional bond market development initiative of the Asia-Pacific Economic Cooperation (APEC), and the Asian Bond Market Initiative (ABMI) of the ASEAN+3 group.

The ASEAN+3 ABMI aims to develop efficient and liquid bond markets in Asia by facilitating issuances of new debt instruments, supporting local and regional credit rating agencies, and improving the bond market infrastructure. Six voluntary working groups have been set up under the ASEAN+3 ABMI to examine the conditions necessary for bond market development and ways forward, with each covering a particular set of issues. One important area identified for improvement by the Working Group on Rating Systems and Information Dissemination as part of the bond market infrastructure is information dissemination.

The need for improved information flows for bond markets in Asia is highlighted by the fact that investors outside the region are not always well acquainted with Asian bond issuers with high financial standings, and with the economic, social, and legal environment that underpins Asian bond markets. Developing bond markets in Asia, therefore, requires the improved flow of local information to global investors. Similar needs also exist within the region, since many issuers that are well known to be high performing and financially strong in one country are often not recognized in another country in the region.

One way to improve information flows for Asian bond markets is to establish an electronic information network. Through such a network, information on bond issuers in the region as well as the economic, social, and legal circumstances surrounding these issuers can be effectively transmitted to markets inside and outside the region; information on new and innovative bond issues in the region can also be disseminated to the international financial community in a timely manner. The improved flows of such information would help to increase the transparency, liquidity, and depth of bond markets in Asia, lower funding costs for Asian bond issuers, and facilitate cross-border capital flows. On the basis of these considerations, the ASEAN+3 ABMI Working Group on Rating Systems and Information Dissemination proposed to establish an Asian Bonds Online Web Site, and requested Asian Development Bank assistance for developing and housing the web site.

There are currently already a number of web sites that provide Asian bond-related information. However, these web sites often use different formats and languages, and have varying information coverage. There is yet no one-stop clearinghouse of information on Asian bond markets. There is, therefore, significant value added in developing such a web-based facility. To further establish the value added of the proposed web site, ADB held close consultations with key bond market participants in both Hong Kong, China and Singapore (including investment banks, brokerage houses, institutional investors, and market regulators) and the Association of Credit Rating Agencies in Asia (ACRAA). The responses obtained through these consultations suggest that the proposed web site will have the following roles to play in facilitating bond market development in East Asia:

- It will provide valuable services to institutional investors, corporate issuers, and brokerage/underwriting houses. Although these players have access to market information services, the coverage of these services is largely geared toward news and information on trading activities, and there is a large information gap. Particularly, information on legal and regulatory frameworks for bond markets and market infrastructure such as trading, clearing, and settlement systems and domestic credit rating services is far short of what market participants need. Hence, the web site could have a significant role to play in providing this information to investors and issuers in Asian bond markets as an information depository.
- The web site could provide extremely valuable services to retail/small/potential investors, both foreign and domestic. These investors may be discouraged from investing in bond markets in Asia because of the high cost of access to the right information including market information services, and hence the web site could help to expand the investor base of Asian bond markets.
- The web site could be a catalyst in promoting the development of bond markets in Asia, by providing a forum for investors, corporate issuers, policy makers, market regulators, and other stakeholders to interact and exchange views; a venue for publicizing government policies and national, subregional, and regional initiatives; an effective means for public education; and a valuable source of information for journalists and media.

#### 4. Sustainability

There are a number of possibilities for the proposed web site after the 3 years of project implementation. One possibility is for ASEAN+3 member countries to take over the operation of the web site. There have been some discussions about this possibility among members of the ASEAN+3 Working Group on Rating Systems and Information Dissemination but a decision is unlikely to be made at this stage. Another possibility is to make the web site partially or fully self-sustaining, including generating revenues through advertisements. This possibility will be looked into further during project implementation as part of the terms of reference for the project team leader. A further possibility is that ADB could consider financing the operation and maintenance of the web site under its TA funding program, if there is such a need. In any case, the usefulness of the web site will be reviewed toward the completion of project implementation.

#### 5. Participatory Approach

The proposal was made in response to a request from the ASEAN+3 ABMI Working Group on Rating Systems and Information Dissemination. The project concept was jointly developed by ADB and the working group members. Key participants in Asian bond markets have been consulted, and responses were very positive. ADB will implement the Project in partnership with the private sector including major investment banks, institutional investors, and credit rating agencies and will also closely collaborate with concerned government agencies of ASEAN+3 countries, and international and regional organizations.

Primary beneficiaries and other affected groups and relevant description	Other key stakeholders and brief description
Investors, brokers/traders, bond issuers, local and international credit rating agencies participating in bond markets of the ASEAN+3 countries will benefit from improved information flows. Improved information inflows will facilitate bond market development in the Asian region in general, and in ADB's developing member countries (DMCs) in the ASEAN+3 group in particular. More developed bond markets in East Asia will help to reduce risks of future financial crises stemming from currency and maturity mismatches, support sustained economic growth, and contribute to poverty reduction in the region.	<ul style="list-style-type: none"> <li>• Policy makers and market regulators for bond markets in ASEAN+3 countries.</li> <li>• International and regional organizations/forums promoting bond market development in East Asia, in particular, the ASEAN+3 Finance Ministers' Process, EMEAP, APEC, and Asia Cooperation Dialogue (ACD).</li> <li>• Other web site users in the region and worldwide who are interested in bond markets in East Asia, in particular, economic/market/ policy analysts and researchers.</li> </ul>

## 6. Coordination

Not applicable.

## 7. Detailed Cost

Please see attached cost estimates in Appendix 1.

## C. Linkage to ADB Strategy and ADB-Financed Operations

### 1. State below the relevant documents, such as country strategy and program (CSP), poverty reduction strategy papers (PRSP), poverty partnership agreement (PPA), or other sector study papers and the objective(s) supported by the proposed grant.

The Asian Bond Market Initiative is one of the major initiatives of ASEAN+3 countries in seeking closer monetary and financial cooperation which they have embarked on since the 1997 Asian financial crisis with a view to promoting regional financial stability. As part of its mandate to promote regional cooperation, ADB has been supporting these initiatives over the past few years through its focal point, the Regional Economic Monitoring Unit (REMU). REMU has provided technical assistance to DMCs in the ASEAN and ASEAN+3 groups in the areas of information exchange, economic monitoring, and policy dialogue through provision of training, capacity building, special studies, and regular assessments of economic prospects and emerging policy issues. REMU is now coordinating ADB support for regional bond market initiatives in Asia including the ASEAN+3 ABMI. For this purpose, an interdepartmental working group, chaired by REMU and represented by the Treasury Department, Southeast Asia Department, Mekong Department, and Office of Cofinancing Operations, was established in February 2003.

To support the ASEAN+3 ABMI, ADB has approved or is processing a number of regional technical assistance for supporting guarantee operations (ADB. 2003. *ASEAN+3 Regional Guarantee Mechanism*), promoting issuances of local currency bonds (*ASEAN+3 Finance Ministers Symposium on Issuance of Bonds Denominated in Local Currencies*), improving settlement and clearing systems (ADB. Under Processing. *ASEAN+3 Regional Settlement Linkage [Asia Link]*), and supporting regional credit rating agencies (ADB. 2002. *Capacity Building of Selected Credit Rating Agencies in Asia* (Phase I); and 2003. *Capacity Building of Selected Credit Rating Agencies in Asia* (Phase II)). The proposed TA will continue ADB's support for the ASEAN+3 ABMI and regional monetary and financial cooperation, and help to fulfill ADB's broad mandate of promoting regional cooperation.

### 2. Linkage to Specific ADB-Financed Operation

Not applicable.

### 3. State the Above-Mentioned Project's Development Objective

Not applicable.

### 4. List the Project's Main Components

Not applicable.

### 5. Rationale for Grant Funding versus ADB Lending

The proposed Project is more a regional technical assistance by nature. Therefore, it cannot be financed by ADB lending.

## D. Implementation of the Proposed Grant

### 1. Provide the Name of the Implementing Agency

ADB will be the Executing Agency for the Project. ADB's REMU will implement the Project in cooperation with the private sector including major institutional investors and credit rating agencies. REMU will also closely collaborate with concerned government agencies of ASEAN+3 countries, and international and regional organizations. ADB's close relationship with these entities including its support for a networking arrangement among credit rating agencies under ACRAA will facilitate REMU's information collection. The web site will be developed and maintained by a team of international and domestic consultants under the guidance and supervision of REMU staff. Details on implementation arrangements, including consulting services requirements, are in Appendix 2.

The Project will be implemented over 3 years from January 2004 to December 2006. It is proposed that the web site be launched in May 2004 at the next ASEAN+3 Finance Ministers meeting at the time of ADB's annual meeting in Jeju, Republic of Korea, to take advantage of the large presence of market participants, government officials, and media at the meetings and attract wide publicity.

### 2. Risks Affecting Grant Implementation

Type of Risk	Brief Description	Measure to Mitigate the Risk
<ul style="list-style-type: none"> <li>Information availability</li> </ul>	Insufficient cooperation of government and nongovernment agencies in providing required information.	Close collaboration and coordination with these agencies.
<ul style="list-style-type: none"> <li>Delay in project implementation</li> </ul>	The web site is not ready for launch by May 2004 for various reasons, including delays in consultant recruitments, underperformance of consultants, etc.	Effective planning and management by ADB project staff and close coordination with ADB's Consulting Services Division.
<ul style="list-style-type: none"> <li>Low usage of web site by target users</li> </ul>	The user statistics show that the web site fails to attract a large number of visits by the target users.	Close consultation with key market participants in conceptualizing and designing the web site. Closely monitoring the web site usage through user statistics and online surveys and adjusting the web site's information coverage and design on the basis of feedback received.

### 3. Incremental ADB Costs

Not applicable.

### 4. Monitoring and Evaluation (M&E)

Key Performance Indicator	Reporting Mechanism	Plan and Timetable for M&E
Launch of the web site in May 2004	Monthly progress reports	The project team leader is to develop a detailed work plan for web site development at the inception of the Project. ADB project officers will approve the work plan and monitor its implementation on a weekly basis. The web site will be ready for review by concerned ADB departments/offices and members

		of the ASEAN+3 Working Group on Rating Systems and Information Dissemination 4 weeks before its launch in May 2004.
Daily updating of the web site	Quarterly progress reports	The project team leader is to develop a work plan for the web site's routine operations and maintenance including staff assignments, operational procedures, quality control mechanisms, and so on. ADB project officers will approve the plan and monitor its implementation on a regular basis (weekly/daily).
Web site user statistics	Monthly usage reports	The project team leader will analyze web site user statistics and assess the usage of the web site by target users. On the basis of this information, the project team leader will suggest necessary adjustments to the design of the web site for approval by ADB project officers, and implement the approved adjustments.
Indicators of bond market activities and macroeconomic and financial indicators	Project completion report. Impact assessment report	ADB project officers will prepare a project completion report. ADB will propose an independent impact assessment on the web site to the ASEAN+3 Working Group.

## 5. Estimated Disbursement Schedule

Fiscal Year (FY)	Amount (in US\$)
FY1	\$846,880
FY2	\$776,560
FY3	\$776,560
<b>Total Disbursements</b>	<b>\$2,400,000</b>

## E. Clearances

To be Cleared By	Name / Division	Comments
1. Director-General of the relevant regional department	Yoshihiro Iwasaki, Head, REMU	<b>Cleared</b>
2. Director of the division in the relevant regional department	Pradumna B. Rana, Director, REMU	<b>Cleared</b>

3. Staff review committee (SRC) members	1. M. Miyachi, Senior Advisor, SERD  2. Y.H. Kim, Assistant Chief Economist, ERDI  3. I. Dalla, Principal Financial Sector Specialist, RSFI  4. R. Marshall, Principal Portfolio Management Specialist, COPP  5. R. Teng, Senior Consulting Services Specialist, COCS  6. C. Gautrot, Counsel, OGC  7. C. Y. Park, Economist, MKGF  8. L. Hung, Financial Control Specialist, CTLA-7  9. B. Davis, Information & Communication Technology Specialist, OIST  10. M. Araki, Senior Cofinancing Specialist, OCO  11. A. Smith, Senior External Relations Officer, OER	<b>Cleared</b>  <b>Comments:</b>  <b>SRC meeting minutes were circulated to all SRC members. No comments were received.</b>
4. Other reviewers	1. A. Sagar, Senior Structured Finance Specialist, OPSD  2. M. Kashiwagi, Deputy Treasurer, TD	<b>Comments:</b>  <b>Comments endorsed the proposal.</b>
5. CC list		

## F. Checklist

<p><b>OCO will use the answers you provide to the following questions to evaluate the application's eligibility for funding. After answering "yes" or "no" to questions 1 to 7 below, refer to the section number in the application where the question is fully addressed. DO NOT provide detailed description below, as details should be included in the relevant sections of page 1 and sections B to D.</b></p>
<p>1. Does the application support activities that will assist the DMCs to bridge the digital divide to help reduce poverty in Asia and Pacific.</p> <p><b>Yes</b></p> <p>Response is found in Section B5</p>
<p>2. Do the proposed activities fit within at least one of the following basic purposes of the JFICT?</p> <p>(i) support ICT-related activities in DMCs that can add substantive value to promote and impact the</p>

<p>poverty reduction strategy of the ADB and other related development aims</p> <p>(ii) encourage private sector participation in ICT development and enhance its capabilities in the region</p> <p>(iii) improve regional and international cooperation, partnership and networking to enhance local efforts at development through appropriate ICT applications.</p> <p><b>Yes</b></p> <p>Response is found in Sections B3 &amp; B5</p>
<p>3. Are the proposed activities designed and expected to be implemented with full participation by local community groups and NGOs?</p> <p><b>No</b></p>
<p>4. Do the activities support interventions that will have a catalytic effect or magnify the impact of ADB-financed operation(s)?</p> <p><b>Yes</b></p> <p>Response is found in Sections B1, B3, &amp; C</p>
<p>5. Does the application identify methods to monitor and evaluate outcomes, implementation progress, and the impact of the grant on the beneficiaries?</p> <p><b>Yes</b></p> <p>Response is found in Section D4</p>
<p>6. Are Japanese NGOs participating in this JFICT activity?</p> <p><b>No</b></p>
<p>7. Have Japanese aid agencies (e.g., JBIC, JICA) been consulted in the development of the JFICT application?</p> <p><b>No</b></p>

<p><b>Please confirm statements 8-15 below.</b></p>
<p>8. Proposed JFICT activities are not eligible or cannot be funded under loans, or through other sources of funding available to ADB.</p> <p><b>Confirmed</b></p>
<p>9. Proposed JFICT activities are not being used to prepare projects or supplement existing project preparation activities being funded through JSF or other project preparation fund.</p> <p><b>Confirmed</b></p>
<p>10. The application includes an exit strategy or a mechanism to ensure long-term sustainability.</p> <p><b>Confirmed</b></p>
<p>11. The legal status, financial soundness, track record, and arrangements for use and accounting of grant funds have been checked for grants that are expected to be executed by community groups or NGOs.</p> <p><b>Not Applicable</b></p>
<p>12. Where funding of incremental costs (staff or consultants) for grant preparation and/or implementation is requested, a full justification is provided.</p> <p><b>Not Applicable</b></p>
<p>13. The grant will not include study tours or foreign training.</p> <p><b>Confirmed</b></p>
<p>14. The application does not include support for academic training, research work, and core program activities of global/regional programs.</p> <p><b>Confirmed</b></p>
<p>15. The director-general and the director of the relevant regional department have endorsed the grant activity.</p> <p><b>Confirmed</b></p>

**Appendixes:**

1. Cost Estimates
2. Implementation Arrangements
3. Abbreviations

## JFICT: Asian Bonds Online Web Site

<div> <div> <div>Project Components</div> <div>Project Inputs / Cost Category</div> </div> </div>	Component A Web Development	Component B Web Maintenance	Total (Input)	percent
<b>1. International Consultants</b>			<b>977,000</b>	<b>40.7%</b>
Team Leader				
a. Remuneration	90,000	450,000	<b>540,000</b>	
b. Per Diem	27,000	135,000	<b>162,000</b>	
c. Travel	5,000	15,000	<b>20,000</b>	
Financial Sector Specialists/Commercial Lawyers				
a. Remuneration		150,000	<b>150,000</b>	
Translators	17,500	87,500	<b>105,000</b>	
<b>2. Domestic Consultants</b>			<b>824,400</b>	<b>34.4%</b>
Project Manager	21,600		<b>21,600</b>	
Two Designers	21,600		<b>21,600</b>	
Two Programmers	21,600		<b>21,600</b>	
Economist/Financial Sector Specialist	28,800	144,000	<b>172,800</b>	
Six Economic/Financial Sector Analysts	81,000	405,000	<b>486,000</b>	
Two Programmers		100,800	<b>100,800</b>	
<b>3. Equipment and Software</b>			<b>79,600</b>	<b>3.3%</b>
12 computers (2 for terminals)	24,000		<b>24,000</b>	
Two servers	20,000		<b>20,000</b>	
Two printers	10,000		<b>10,000</b>	
Software and other equipment	4,000	21,600	<b>25,600</b>	
<b>4. Databases and Subscriptions (Bloomberg, Reuters, Basis Point, etc)</b>	42,500	157,500	<b>200,000</b>	<b>8.3%</b>
<b>5. Dissemination Seminars and Workshops</b>		55,000	<b>55,000</b>	<b>2.3%</b>
<b>6. Office Supplies and Other Miscellaneous Costs</b>	4,000	20,000	<b>24,000</b>	<b>1.0%</b>
<b>Contingencies (0-10% of total estimated grant fund):</b> Use of Contingencies requires <u>prior</u> approval from ADB.	40,000	200,000	<b>240,000</b>	<b>10.0%</b>
<b>Total JFICT Contributions</b>	458,600	1,941,400	<b>2,400,000</b>	<b>100.0 %</b>

**Table A1.2: Detailed Cost Estimates  
(US\$)**

JFICT: Asian Bonds Online Web Site

<b>Code</b>	<b>Supplies and Services Rendered</b>	<b>Unit</b>	<b>Quantity Units</b>	<b><u>Costs</u> Cost Per Unit</b>	<b>Total US\$</b>
<b>Component A. Web Development</b>				<b>Subtotal:</b>	<b>458,600</b>
<b>1.1</b>	<b>International Consultants</b>				
1.1.1	Team Leader				
	a. Remuneration	days	180	500	90,000
	b. Per Diem	days	180	150	27,000
	c. Travel	trip	1	5,000	5,000
1.1.2	Translators	month	3.5	5,000	17,500
<b>1.2</b>	<b>Domestic Consultants</b>				
1.2.1	Project Manager	days	180	120	21,600
1.2.2	Designers	days	300	72	21,600
1.2.3	Programmers	days	240	90	21,600
1.2.4	Economist/Financial Sector Specialist	days	180	160	28,800
1.2.5	Economic/Financial Sector Analysts	days	1080	75	81,000
<b>1.3</b>	<b>Equipment and Software</b>				
1.3.1	Computers	units	12	2,000	24,000
1.3.2	Servers	units	2	10,000	20,000
1.3.3	Printers	units	2	5,000	10,000
1.3.4	Software and Other Equipment				4,000
<b>1.4</b>	<b>Databases and Subscriptions</b>				
1.4.1	Bloomberg	months	6	1,250	7,500
1.4.2	Reuters	months	6	1,250	7,500
1.4.3	Others				27,500
<b>1.5</b>	<b>Office Supplies and Other Miscellaneous Costs</b>				4,000
<b>1.6</b>	<b>Contingencies</b>				40,000

**Table A1.2: Detailed Cost Estimates  
(US\$)**

JFICT: Asian Bonds Online Web Site

<b>Code</b>	<b>Supplies and Services Rendered</b>	<b>Unit</b>	<b>Quantity Units</b>	<b><u>Costs</u> Cost Per Unit</b>	<b>Total US\$</b>
<b>Component B. Web Maintenance</b>				<b>Subtotal:</b>	<b>1,941,400</b>
<b>2.1</b>	<b>International Consultants</b>				
2.1.1	Team Leader				
	a. Remuneration	days	900	500	450,000
	b. Per Diem	days	900	150	135,000
	c. Travel		3	5,000	15,000
2.1.2	Financial Sector Specialists/Commercial Lawyers				
	a. Remuneration	days	250	600	150,000
2.1.3	Translators	month	17.5	5,000	87,500
<b>2.2</b>	<b>Domestic Consultants</b>				
2.2.1	Economist/Financial Sector Specialist	days	900	160	144,000
2.2.2	Economic/Financial Sector Analyst	days	5400	75	405,000
2.2.3	Programmers	days	1440	70	100,800
<b>2.3</b>	<b>Equipment and Software</b>				
2.3.1	Software and Other Equipment				21,600
<b>2.4</b>	<b>Databases and Subscriptions</b>				
2.4.1	Bloomberg	month	30	1,250	37,500
2.4.2	Reuters	month	30	1,250	37,500
2.4.3	Others				82,500
<b>2.5</b>	<b>Dissemination Seminars and Workshops</b>	countries	11	5,000	55,000
<b>2.6</b>	<b>Office Supplies and Other Miscellaneous Costs</b>				20,000
<b>2.7</b>	<b>Contingencies</b>				200,000
<b>Components 1 to 2 = Subtotal (excluding contingency)</b>				<b>Subtotal:</b>	<b>2,160,000</b>
	<b>D. Contingency (Maximum 10% of total JFICT Contribution)</b>				<b>240,000</b>
<b>Total Grant Cost</b>				<b>Total:</b>	<b>2,400,000</b>

## APPENDIX 2: IMPLEMENTATION ARRANGEMENTS

The Project will require approximately 65.5 person-months of international consulting services to be provided by individual consultants. It will require 24 person-months of web design/development services, to be provided by a team of individual domestic consultants. The Project will also require 300 person-months of domestic consulting services provided by individual consultants to generate web contents and maintain the web site. All the individual consultants will be engaged in accordance with ADB's *Guidelines on the Use of Consultants* and other arrangements acceptable to ADB for the selection and engagement of domestic consultants.

International consultants will include a team leader to manage the Project, including both web development (6 person-months) and maintenance (30 person-months); two or more commercial lawyers or financial sector specialists to carry out special topic studies on Asian bond markets, in particular, legal and regulatory frameworks and market infrastructure (8.5 person-months); and several translators to translate local language web contents into English (21 person-months). The team leader, who may or may not be the same individual during the 3 years of project implementation, will be a capital market specialist with extensive investing or advisory experience in Asian bond markets, deep knowledge on bond issuing, trading, and underwriting, sufficient familiarity with legal and regulatory frameworks and policy issues for bond markets in ASEAN+3 countries, and strong analytical, liaison, communication, and managerial skills. Commercial lawyers or financial sector specialists for special topic studies will have extensive advisory experience in Asian bond markets, deep knowledge on bond issuing, trading, and underwriting, sufficient familiarity with legal and regulatory frameworks and policy issues for bond markets in ASEAN+3 countries, and strong analytical, liaison, and communication skills. Translators will have extensive experience in translating legal and regulatory documents from local languages into English.

Domestic consultants for web design/development will include a project manager, engaged for 6 person months, 2 graphic designers, each engaged for 5 person-months, and 2 web programmers, each engaged for 4 person-months. Domestic consultants for generating web content and maintaining the web site will comprise a graphic designer, engaged for 24 person-months, a web programmer, engaged for 24 person-months, an economist or financial sector specialist, engaged for 36 months, and 6 economic/financial sector analysts, each engaged for 36 person-months. The economist/financial sector specialist and economic/financial sector analysts will have extensive experience in financial data processing and analysis, be familiar with capital markets and policy issues in the participating countries, have strong communication skills, and be proficient in using standard computer applications software.

Procurement of equipment (computer and software) and data by ADB will be in accordance with its *Guidelines for Procurement*. Procurement will take place in coordination with ADB's Office of Information Systems and Technology and Office of Administrative Services.

**APPENDIX 3: ABBREVIATIONS**

ABMI	–	Asian Bond Market Initiative
ACD	–	Asia Cooperation Dialogue
ACRAA	–	Association of Credit Rating Agencies in Asia
ADB	–	Asian Development Bank
APEC	–	Asia-Pacific Economic Cooperation
ASEAN	–	Association of Southeast Asian Nations
ASEAN+3	–	Association of Southeast Asian Nations plus People's Republic of China, Japan, and Republic of Korea
COCS	–	Consulting Services Division
COPP	–	Project Coordination and Procurement Division
CTLA-7	–	Disbursement Section-7, Controller's Department
DMC	–	developing member country
EMEAP	–	Executives' Meeting of East Asia Pacific Central Banks
ERDI	–	Development Indicators and Policy Research Division
GDO	–	Grant Development Objective
JBIC	–	Japan Bank for International Cooperation
JFICT	–	Japan Fund for Information and Communication Technology
JSF	–	Japan Special Fund
ICT	–	information and communications technology
M&E	–	monitoring and evaluation
MKGF	–	Mekong Governance, Finance, and Trade Division
NGO	–	nongovernment organization
OCO	–	Office of Cofinancing Operations
OER	–	Office of External Relations
OGC	–	Office of the General Counsel
OIST	–	Office of Information Systems and Technology
OPSD	–	Office of the Director General, Private Sector Operations Department
PRC	–	People's Republic of China
REMU	–	Regional Economic Monitoring Unit
RSFI	–	Regional Finance and Infrastructure Division
SERD	–	Southeast Asia Regional Department