

Project Administration Manual

Project Number: 51041-002
Loan Number: xxxx-UZB
October 2018

Uzbekistan: Horticulture Value Chain Infrastructure Project

Important Note: This Project Administration Manual is an active document. It will be updated and revised progressively as and when necessary during each review mission. The contents herein are intended to assist and facilitate project management and implementation. If there is any conflict with any other legal agreement(s) related to this project, the provisions in the legal agreements will prevail.

ABBREVIATIONS

ADB	–	Asian Development Bank
ALC	–	agro-logistic center
COL	–	Ordinary Capital Resources (concessional loan)
GAP	–	gender action plan
IEE	–	initial environmental examination
IPSAS	–	International Public Sector Accounting Standards
LARP	–	land acquisition and resettlement plan
LCS	–	least-cost selection
MFT	–	Ministry for Foreign Trade
MOF	–	Ministry of Finance
NCB	–	national competitive bidding
PMO	–	project management office
PSC	–	project management and supervision consultant
QCBS	–	quality- and cost-based selection
RRA	–	Rural Restructuring Agency
RRP	–	Report and Recommendation of the President to the Board of Directors
SOE	–	statement of expenditure
SPS	–	safeguard policy statement

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Project Administration Manual Purpose

The project administration manual (PAM) describes the essential administrative and management requirements to implement the project on time, within budget, and in accordance with the policies and procedures of the government and Asian Development Bank (ADB). The PAM should include references to all available templates and instructions either through linkages to relevant URLs or directly incorporated in the PAM.

The Ministry of Finance, the Rural Restructuring Agency (RRA), and the Ministry for Foreign Trade (MFT) are wholly responsible for the implementation of ADB-financed projects, as agreed jointly between the borrower and ADB, and in accordance with the policies and procedures of the government and ADB. ADB staff is responsible for supporting implementation including compliance by RRA and the MFT of their obligations and responsibilities for project implementation in accordance with ADB's policies and procedures.

At loan negotiations, the borrower and ADB shall agree to the PAM and ensure consistency with the loan and project agreements. Such agreement shall be reflected in the minutes of the loan negotiations. In the event of any discrepancy or contradiction between the PAM and the loan and project agreements, the provisions of the loan and project agreement shall prevail.

After ADB Board approval of the project's report and recommendations of the President (RRP), changes in implementation arrangements are subject to agreement and approval pursuant to relevant government and ADB administrative procedures (including the Project Administration Instructions) and upon such approval, they will be subsequently incorporated in the PAM.

I. PROJECT DESCRIPTION

1. The proposed project supports the government's plan to establish horticulture clusters where production and post-harvest services can be consolidated to improve efficiency and economies of scale. It will finance the establishment of agro-logistic centers (ALCs) in two locations—Andijan and Samarkand regions—taking into account international best practices. Such infrastructure will provide all necessary facilities and services under one roof: trading, storage, processing, food safety certification, customs clearance, transport, shipping, marketing advisory services, trade finance, and commercial banking, etc. Significantly larger volumes of product with improved quality will be marketed as a result of better post-harvest logistics that will facilitate reduced post-harvest losses and increased domestic sales and exports. The ALCs will enhance value-chain linkages with production, post-harvest processing, and handling following international quality, and safety standards. Increased export and domestic marketing of horticultural products will increase price transmission to small-scale producers, and small- and medium-sized agribusinesses. It will also support further diversification of the agriculture sector from cotton to horticulture, which generates higher financial and economic returns, and involves fewer social and environmental concerns.

II. IMPLEMENTATION PLANS

A. Project Readiness Activities

Table 1: Project Readiness Activities^a

Indicative Activities	2018–2019							Responsible
	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19	Apr 19	May 19	
National feasibility study finalization	▲							RRA, MFT, and ADB
National feasibility study review by the government		▲						RRA and MFT
Government approval (issuance of government resolution)				▲				RRA
Loan and project agreements signing					▲			ADB, MOF, RRA, MFT
Government legal opinion provided						▲		MOF and MOJ
Government budget inclusion						▲		MOF
Loan effectiveness						▲		ADB
Recruitment and mobilization of project management and supervision consultant		▲	—	—	—	—	▲	RRA, MFT, and ADB

^a Assuming Board approval in December 2018.

ADB = Asian Development Bank, MFT = Ministry for Foreign Trade; MOF = Ministry of Finance, MOJ = Ministry of Justice, RRA = Rural Restructuring Agency.

Source: Asian Development Bank staff estimates.

Indicative Activities	2018				2019				2020				2021				2022				2023			
	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4
reports																								
3.4. Prepare project completion report by Q4 2023																								

ADB = Asian Development Bank, ALC = agro-logistic center, Q = quarter.

Source: Asian Development Bank.

III. PROJECT MANAGEMENT ARRANGEMENTS

A. Project Implementation Organizations: Roles and Responsibilities

Project implementation organizations	Management Roles and Responsibilities
Rural Restructuring Agency (RRA) (Executing Agency)	<ul style="list-style-type: none"> ➤ Coordinate implementation of all project activities, including procurement, supervision of detailed design and construction with assistance of the project management and supervision consultant (PSC) ➤ Monitor timely contract awards and disbursement from ADB loan proceeds ➤ Prepare payment documents including withdrawal applications related to direct payment and advance account (advance, projections, liquidation, and replenishment) ➤ Monitor safeguards and gender implementation progress and compliance ➤ Prepare quarterly and annual progress reports, annual safeguards monitoring reports, project completion report to ADB within 6 months from project physical completion
Ministry for Foreign Trade (Supervising the ALC management company)	<ul style="list-style-type: none"> ➤ Set up the ALC management company ➤ Chair the supervisory board of the ALC management company and monitor its operation
Asian Development Bank (ADB)	<ul style="list-style-type: none"> ➤ Monitor project achievements as described in the design and monitoring framework and compliance with covenants and safeguards as set out in loan and project agreements ➤ Conduct field reviews of implementation twice a year

ALC = agro-logistic center.

B. Key Persons Involved in Implementation

Executing Agency	
Rural Restructuring Agency (RRA)	Officer's Name: Sh. Shoakhmedov Position: Director General Telephone: (+998 71) 241 2002 Email address: info@rra.uz Officer's Name: Bakhtiyor Kamalov Position: Deputy General Director Telephone: (+998 71) 241 2002 Email address: hvp@rra.uz Office Address: 1A, Labzak str., Tashkent, 100004, Republic of Uzbekistan
Implementing Agency	
Ministry for Foreign Trade (Supervising the ALC management company)	Officer's Name: Sakhil I. Saifnazarov Position: Deputy Minister Telephone: (+998 71) 238 5002 Email address: s.saifnazarov@mft.uz

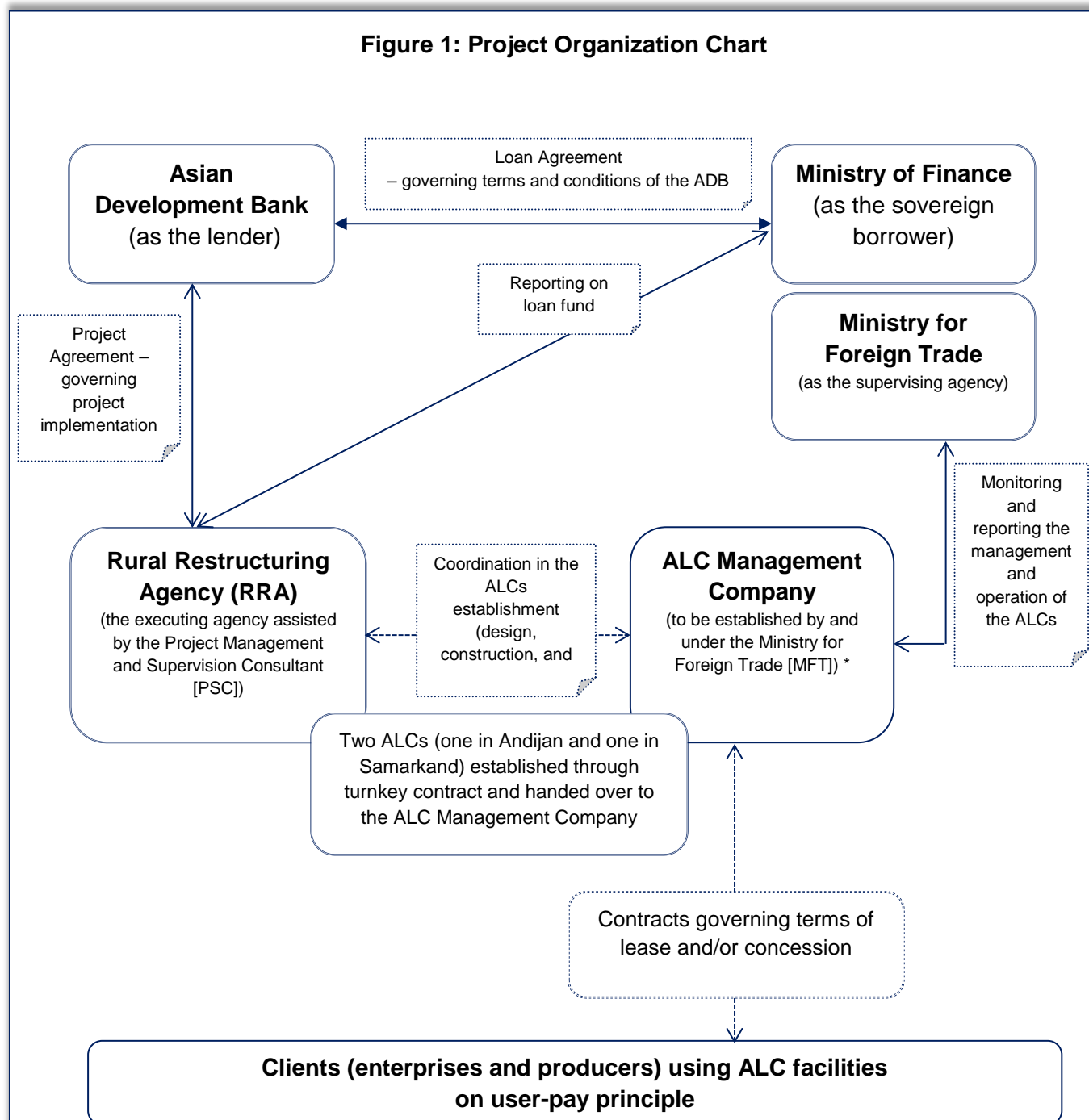
	Office address: 51, Istiqlol Street, Tashkent 100047, Republic of Uzbekistan
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ALC = agro-logistic center.

Asian Development Bank	
Environment, Natural Resources, and Agriculture Division (CWER); Central and West Asia Department (CWRD)	Donneth Walton Director, CWER Telephone: +632 632 5847 Email address: dwalton@adb.org
Project Team Leader	Bui Minh Giap Senior Natural Resources and Agriculture Economist Telephone: +632 632 6900 Email address: buigm@adb.org

C. Project Organization Structure

2. The project organization chart is depicted in Figure 1 and the project management office (PMO) staff requirement and responsibilities are in Appendix 1.



ALC = agro-logistic center.

* The ALC management company will have a supervisory board which will be chaired by a MFT's deputy minister with senior representatives from the Ministry of Agriculture, the Chamber of Commerce, customs authority, regional governments of Andijan and Samarkand, and other relevant sector agencies.

Source: Asian Development Bank.

3. **Project implementation and management structure.** The Rural Restructuring Agency (RRA) will be the executing agency of the project and will be responsible for the overall implementation of the project. The Ministry for Foreign Trade (MFT) and the ALC management company (once established) will be the implementing agencies for the project. The MFT will be responsible for the establishment of the ALC management company as a limited liability company, which will be fully-owned by the government. The ALC management company will own, operate and manage the ALCs. The management board of the ALC management company, comprising of one managing director and two deputy managing directors, will be responsible for the day-to-day operations of the ALC management company.

4. The ALC management company will have a supervisory board which will be chaired by a MFT's deputy minister with senior representatives from the Ministry of Agriculture, the Chamber of Commerce, customs authority, regional governments of Andijan and Samarkand, and/or other relevant sector agencies. The supervisory board will hold its meeting on a quarterly basis and will be responsible for ensuring that (i) the ALC management company operates with good governance and in accordance with applicable laws and regulations of the Republic of Uzbekistan; (ii) the products traded in each ALC comply with quality and safety standards; and (iii) the ALCs provide regular and solution-oriented feedback to help the government formulate policies, strategies, and regulations related to (a) organizing and modernizing the horticulture value chain; (b) improving linkages between value chain actors; and (c) agro-product safety, traceability, and certifications.

5. The project management office (PMO) established under the RRA, and the project management and supervision consultant (PSC) engaged under the project will assist the ALC management company in setting up ALCs, including preparation of ALCs' detailed designs, land acquisition, compliance with social and environmental safeguards, construction of civil works and purchase and installation of equipment. The RRA, through the PMO, will recruit the PSC as an international firm using the quality-and cost-based selection (90:10) method in accordance with ADB's Procurement Guidelines (2015, as amended from time to time). The PMO and the PSC will assist the ALC management company in recruiting a turnkey contractor to design and construct the ALCs. The ALC management company will supervise the detailed design and construction with assistance of the PMO and the PSC.

6. **Operation of the ALCs and private sector participation.** The ALC management company will operate and manage the ALCs on commercial and cost-recovery principles. The ALC management company will lease out the ALC facilities to private sector users and/or operators on user-pays principle. Prospective private sector clients will include producers (farmers), processors, traders, exporters, and other support service providers such as transport companies, banks, insurance companies and brokerage houses, among others. With all post-harvest activities taking place within the premises, the ALCs will help strengthen linkages among value chain actors, both upstream and downstream, and increase efficiency gains and value addition along the horticulture value chain.

7. To ensure the ALC management company is operationally and commercially autonomous, it must have:

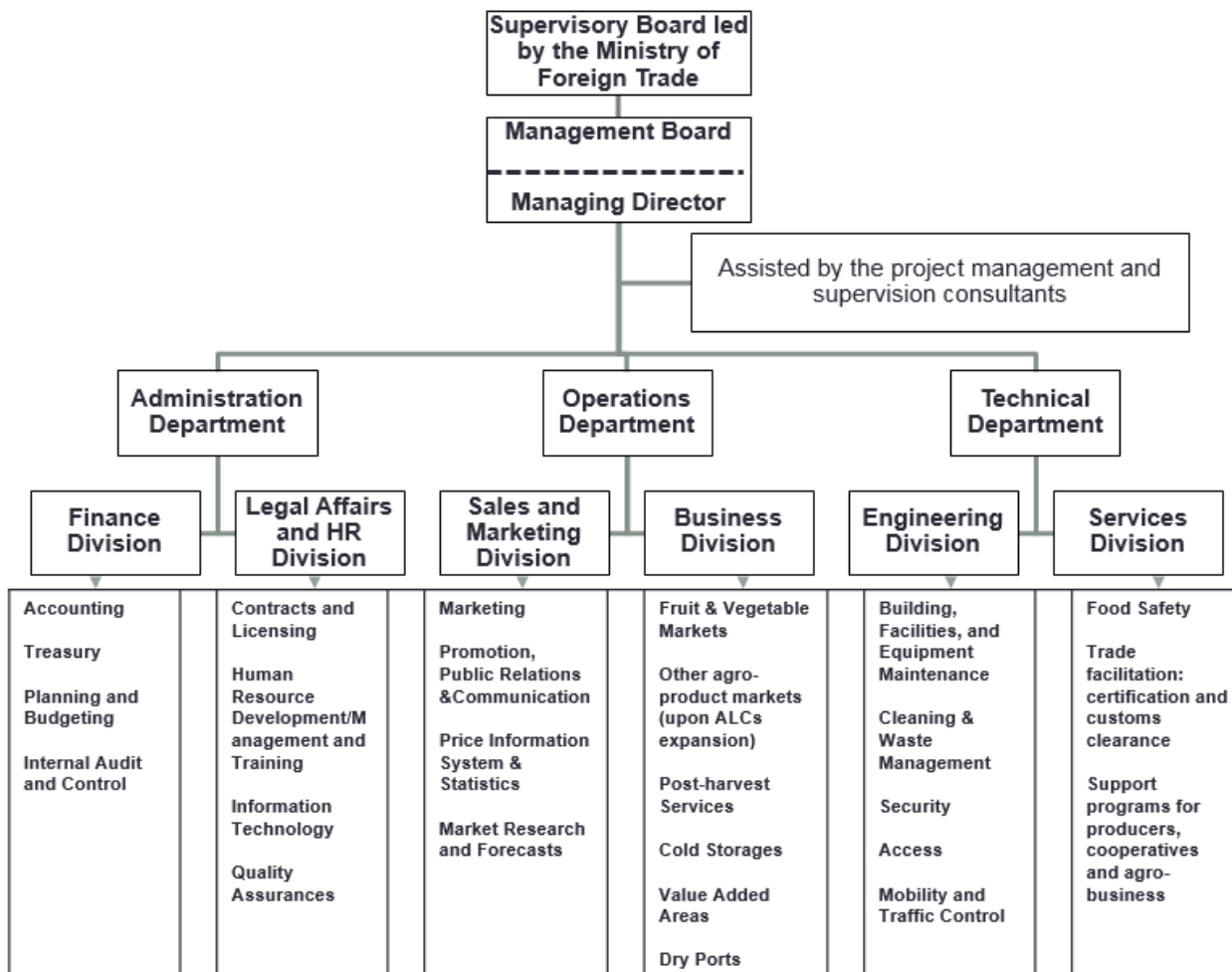
- independent decision-making powers;
- no involvement in trading activities at the ALCs;
- the ability to own its assets;

- the power to incur liabilities, for and on its own behalf, and accept and enter into future obligations and commitments;
- the capacity to implement an appropriate accounting system to enable it to submit its accounts to the national tax authorities in accordance with the applicable laws of the Republic of Uzbekistan;
- the power to borrow and raise funds;
- the ability to function in a manner that shall generate sufficient revenue to keep the ALCs in good working conditions and to enable them to meet the commercial, social, and environmental criteria; and
- the capacity to comply with prevailing legal and regulatory requirements.

8. **Performance Criteria.** As a state-owned limited liability enterprise, the ALC management company will be subject to annual performance monitoring by the government. The MFT will ensure an annual assessment/audit of the ALC Management Company, starting from the second year after commencement of commercial operation of the ALCs, by employing, among others, a combination of the following financial and physical indicators: (a) Financial: return on assets (of at least equal to annual inflation rate of the reporting year plus 2.0%); and debt to equity (not exceeding 1.5 times); and (b) Physical: occupancy rate of the wholesale market area (of no less than 65%); occupancy rate of the small-farmers' market area for each ALC (of no less than 70%); total processing throughput in each ALC for export and domestic sales (of no less than 0.7 million tons); and utilization rate of cold storage capacity in each ALC (of no less than 0.9 million tons).

9. **Organization Structure of the ALC Management Company.** The ALC management company will have three key departments: (i) Administration Department, with subdivisions for Finance, and Legal Affairs and Human Resources; (ii) Operations Department, with subdivisions for Sales and Marketing, and Business; and (iii) Technical Department, with subdivisions for Engineering and Services. Each department and subdivision will be headed by a manager. Subsidiary units will be headed by a unit head and have subject specialists and support staff appropriate to each subdivision. The organization structure of the ALC management company is in Figure 2.

Figure 2: Organization Structure of the ALC Management Company



D. Descriptions of Agro-logistic Centers

1. Location and Site Selection

10. The selection of the location for the ALCs reflected an assessment of the potential of all Uzbekistan's 12 regions and the Autonomous Republic of Karakalpakstan based on (i) the existing and potential levels of horticulture production; and (ii) existing market, post-harvest, transport, and utilities infrastructure, and ease of access to key domestic and export markets. Discussions were held with horticulture sector stakeholders and potential participants in ALC management and operation at regional and national levels. Such stakeholders included provincial and district administrations, market operators and users, owners and operators of post-harvest facilities (cold storage, processing, etc.), farmers (including *dehkan* [small-scale] farmers) and traders, RRA, and concerned government ministries.

11. The choice of Andijan and Samarkand is based on their greater suitability relative to other areas of Uzbekistan. In particular, Andijan and Samarkand is based on their favorable agro-climatic conditions that allow multiple fruit and vegetable crops per year. Together, they account for 25% of the total area in Uzbekistan under horticulture crops and for 30% of total

production, which are significantly higher than other regions. They have large *dehkan* farmer populations, accounting for 22% of all *dehkan* farmers in Uzbekistan, who will benefit from increased market opportunities. Andijan and Samarkand also have significant urban populations, are well connected to other urban centers in Uzbekistan, and are strategically located for access to export markets.¹ There was also strong support from Andijan and Samarkand regional administrations for establishing the ALCs in their locality.

12. Within Andijan and Samarkand, selection of the specific site for location of each ALC was based on a number of criteria, as follows: (i) availability of a land plot of at least 50 hectare (ha) (with potential expansion up to 100 ha) not currently in use; (ii) proximity to main city center; (iii) easy (and close) access to transportation infrastructure (provincial highways and railways); (iv) access to utilities (electricity, gas, and water); (v) level terrain (without hills); (vi) safe distance from watercourses (river, streams, and springs); (vii) outside environmentally protected area; (viii) safe distance from large-scale industrial or chemical plants; (ix) minimal impacts of land acquisition and resettlement; (x) ease of access for construction works; and (xi) supportive regional and district administration.

13. **Andijan Site.** The ALC at Andijan comprises (a) approximately 25,000 square meters (m²) of trading area split evenly between wholesale and small farmer sales areas with an annual throughput of around 425,000 tons; (b) approximately 60,000 cubic meters (m³) of cold storage with an annual capacity of approximately up to 1.5 million tons; (c) 12 processing lines with an approximate annual throughput of 600,000 tons for export and 80,000 tons for the domestic market; and (d) provision of groundworks for future expansion of the ALC for an increased volume of horticulture produce and/or trading, storage, and processing of alternative food product. The ALC at Andijan will be located in Andijan district away from, but well connected to Andijan city. The site is located on National Highway 4P112 and the A373 (Tashkent - Fergana Valley road) and opposite the airport. It is in the center of the major production areas of Andijan region in Andijan, Asaka, Jalalkuduk, Pakhtaabad, and Shakhrihon districts. It is also well located for access to and from neighboring regions of Fergana and Namangan, and to export destinations. The identified site covers a gross area of 51.43 ha, of which 40.90 ha will be developed under the proposed project, and the remaining area is reserved for future expansion.

14. **Samarkand Site.** The ALC at Samarkand comprises: (a) approximately 35,600 m² of trading area split evenly between wholesale and small farmer sales areas with an annual throughput of around 550,000 tons; (b) approximately 60,000 m³ of cold storage with an annual capacity of up to 1.5 million tons; (c) 17 processing lines with an approximate annual throughput of 850,000 tons for export and 150,000 tons for the domestic market; and (d) provision of groundworks for future expansion of the ALC for an increased volume of horticulture produce and/or trading, storage and processing of alternative food products. The ALC at Samarkand will be located in Jomboy district with good connection to Samarkand city. It is on National Highway M39 connecting Samarkand with Tashkent and is close to Samarkand airport. The location in Jomboy will enable traders from southern regions of Surkandarya and Kashkadarya to avoid passing through Samarkand city thereby avoiding traffic congestion in the city. It is in the center of the major production areas of Samarkand Region in Bulungur, Jomboy, Samarkand, Toyloq, and Urgut districts. The identified site covers a gross area of 78.00 ha, of which 54.83 ha will be developed under the proposed project, and the remaining area is reserved for future

¹ ALCs in Tashkent region and/or other regions may be considered in another project or an additional financing, subject to the government's request and further due diligence by ADB.

expansion.² Both ALCs will include on-site trade support facilities such as quality and safety certification, online market information system, banking, and custom services, among others.

2. Key Design Features of the ALCs

15. Each ALC is designed as a hub, at the center of which is the administration building that will house ALC administration offices, and complementary services for market users such as financial services, laboratory services and certification, customs clearance, transport agencies, accommodation, and restaurant. Around the administration building, the market trading areas, cold storage buildings, and processing buildings will be constructed. All buildings and facilities will be based on a modular format so that they may be replicated to cater for increased demand for a particular type of service. This approach provides flexibility for the future expansion of the ALC to handle larger volumes of horticulture produce or to diversify into alternative products such as meat and dairy (if needed). Detailed cost estimates are in Appendix 3.

16. Key features and functions of each ALC are as follows.³

17. **Entrance Area** features the following:

- Arrival
- Registration and document checking
- Weighing (not mandatory)
- Redirection to:
 - Market building – areas for (i) wholesale traders, brokers, exporters, medium-size farmers, and (ii) small farmers.
 - Post-harvest services building – area for washing, weighing, sorting, grading, and packaging for local distribution. Areas will be crop specific, combining produce of similar dimensions.
 - Post-harvest services building – area for washing, weighing, sorting, grading, and packaging for export. Areas will be crop specific.
 - Processing area – peeling, cutting, and preserving depending on crop. In the Andijan ALC an area is proposed specifically for tomato processing given the volume of production in the Andijan area.
 - Cold storage for cold or frozen product storage.
 - Administrative building.

18. **Market building area for wholesale traders, brokers, exporters, medium-size farmers.** This is the fruit, vegetables, and tubers wholesale area within warehouses and/or pavilions, with a central aisle for buyers and commercial areas (rentable on an annual or monthly basis) to the side arranged in stalls (10m by 6m) with a door to a loading and unloading dock for shipping by pallet or in boxes. Stalls will be designed to include cold storage, basic processing and packing area, and office space at the cost of the tenant. Andijan ALC will have three warehouses, around 18,000 m², capacity 400,000–450,000 tons per year; while Samarkand ALC will have four warehouses, around 25,000 m², capacity 550,000–600,000 tons per year.

19. **Market building area for small farmers.** This is an area within warehouses and/or

² ALCs in Tashkent region and/or other regions may be considered in another project or an additional financing, subject to the government's request and further due diligence by ADB.

³ The specific size and functional capacity of each ALC are defined in the detailed feasibility studies of each ALC (available on request).

pavilions dedicated for use by small farmers and rented by the day or week to accommodate sellers with smaller product volumes and selling on an intermittent basis. Sales areas comprise floor space demarcated into 3m x 2m blocks. The area will have a cold store for common use. The upper floor of the market building can be used to house additional storage, accommodation, and restaurants.

20. **Post-harvest services building - areas for internal distribution and export of fresh and processed fruits and vegetables.** This is a building incorporating processing lines for basic processing of fruit, vegetables, and tubers for domestic sale and export. There will be 12 processing lines in the Andijan ALC, and 17 processing lines in the Samarkand ALC, each with a capacity of 10–15 tons/hour, depending on the projected throughput by type and volume of fruit and vegetables.

21. The envisaged processing flow is as follows:

- Arrival at the loading dock and unloading of produce
- Reception and produce weighing
- Precooling
- Processing
- Cleaning
- Classification by size, weight, color, as appropriate
- Conservation and product packing/packaging
- Delivery to (i) wholesale market, (ii) cold storage, and (iii) exporters

22. Current practice is to transport produce in bulk, which results in significant losses. The two ALCs will operate a standardized packing management system for all fruit and vegetable produce chain. All users of processing facilities will be required to use crates, pallets, and containers. Their use will also be promoted for producers, consolidators, transporters, wholesale and retail sellers, and exporters. The post-harvest services building includes the following infrastructure and/or facilities:

- Product reception area (from trucks, vans, cars, tractors)
- Area for transfer of products from vehicles
- Vehicle and driver waiting area
- Weighing area, including scales
- Area for transfer of products to processing facilities
- Processing area (depending on the type of product to be processed)
- Walkways between processing areas
- Packing and packaging area
- Area for preparation of delivery
- Office for product control and monitoring
- Laboratory for quality and/or safety analysis
- Sanitary for both sexes for workers
- Staff changing rooms and washrooms
- Dining room
- Administrative offices and conference room
- Area for fork lift parking and battery charging, and maintenance equipment
- Storage area for supplies, and processing chemicals
- Fuel storage tanks
- Area for washing and cleaning pallets, crates, and boxes

23. **Cold storage building.** The cold storage building will predominantly provide storage for produce destined for export. Each refrigeration or freezing chamber will be 15m x 10m x 7m (1,050 m³) with three storage levels using a rack system. At each ALC, it is proposed to establish 60 chambers providing around 63,000 m³ with a capacity of 21,000 tons, and an annual throughput of 1.5 million tons. The cold storage building includes the following infrastructure and/or facilities:

- Administrative area
 - Administration and customer service office
 - Quality management office
 - Meeting room
 - User/customer room
 - Staff dining room
 - Staff washrooms and rest rooms
 - Storage for utensils and supplies
- Warehouse area
 - Engine room
 - Electricity supply, transformer, distribution rooms
 - Cold storage control and monitoring room
 - Area for emergency power generation equipment
 - Maintenance area with office
 - Storage for cages, racks, pallets or structures used in cold storage
 - Storage for general supplies
 - Storage for chemicals used in cold storage
 - Office for health authorities
- Area for cold storage
 - Central entrance door to chambers
 - Freezing-resistant chamber floors
 - Handling area, heated to 5° Celsius
 - Freezing tunnel, with blast freezer
 - Disinfection areas in front of chamber entry points and on forklift ramp
 - Emergency exits
 - Office to control product entry and exit
 - Staff washrooms and rest rooms

24. **Administrative building.** This is a four-story building with 1,000 m² usable area on each level. This will be where the ALC administration office of the management company is located. It will also provide space for complementary services for ALC users, such as customs clearance, laboratory facilities, health, first aid and pharmacy, communications, financial services (currency exchange and banking), restaurant, and accommodation. It is proposed to rent space on first level to service providers with rentable areas ranging from 20 m² to 100 m². The second level would house the offices of the ALC management company, the third level the business center, meeting and training rooms and laboratory, and the fourth level is for the customs office.

IV. COSTS AND FINANCING

A. Key Assumptions

25. The following key assumptions underpin the cost estimates and financing plan: (i) exchange rate: UZS8,140 = \$1.00; and (ii) price contingencies based on expected cumulative inflation over the implementation period are as follows:

Table 3: Escalation Rates for Price Contingency Calculation

Item	2019	2020	2021	2022	2023
Foreign rate of price inflation	1.5%	1.5%	1.6%	1.6%	1.6%
Domestic rate of price inflation	14.0%	9.1%	7.9%	7.5%	7.5%

Source: Asian Development Bank.

B. Detailed Cost Estimates

Table 4: Detailed Cost Estimates by Expenditure Category

	(UZS Million)			(US\$ '000)			% Total Base Costs
	Local	Foreign	Total	Local	Foreign	Total	
I. Investment Costs							
A. ALC Civil Works	1,343,646.3	201,265.1	1,544,911.4	165,067.1	24,725.4	189,792.6	86.0
B. ALC Plant, Equipment and Vehicles	79,399.7	92,633.0	172,032.7	9,754.3	11,380.0	21,134.2	10.0
C. Project Management	19,688.6	7,326.0	27,014.6	2,418.8	900.0	3,318.8	2.0
D. Consulting Services							
Project Management and Supervision Consultants	4,647.9	30,052.9	34,700.8	571.0	3,692.0	4,263.0	2.0
E. Environmental Management	567.8	63.1	630.9	69.8	7.8	77.5	0.0
F. Resettlement	10,610.1	0.0	10,610.1	1,303.5	0.0	1,303.5	1.0
G. Project Financial Audit	2,197.8	0.0	2,197.8	270.0	0.0	270.0	0.0
Total BASELINE COSTS	1,460,758.2	331,340.0	1,792,098.3	179,454.3	40,705.2	220,159.5	100.0
Physical Contingencies	48,718.6	8,531.8	57,250.4	5,985.1	1,048.1	7,033.2	3.0
Price Contingencies	424,880.9	98,616.1	523,497.0	7,273.5	1,681.1	8,954.7	4.0
Total PROJECT COSTS	1,934,357.7	438,487.9	2,372,845.7	192,713.0	43,434.4	236,147.4	107.0
Interest During Implementation	0.0	84,270.4	84,270.4	0.0	8,599.4	8,599.4	4.0
Total Costs to be Financed	1,934,357.7	522,758.3	2,457,116.0	192,713.0	52,033.9	244,746.8	111.0

ALC = agro-logistic center

Source: Asian Development Bank.

Table 5: Allocation and Withdrawal of Loan Proceeds

Horticulture Value Chain Infrastructure Project				
CATEGORY			ADB COL FINANCING	
No.	Item	Amount Allocated [\$]		Percentage and Basis for Withdrawal from the Loan
		Category	Sub-Category	
	Investment Costs	197,000,000		
1	Goods and Works (Turnkey Contract)		187,119,707	100 percent of total expenditure (*)
2	Other Expenditures, including: (a) Project Management and Supervision Consultants; (b) Project Management; (c) Resettlement; (d) Project Financial Audit; and (e) Environmental Management		9,880,293	100 percent of total expenditure
	Total	197,000,000		

(*) Exclusive of taxes and duties, to be financed by the Government through exemptions.

ALC = agro-logistic center; COL = Ordinary Capital Resources (concessional loan).

Source: Asian Development Bank.

Table 6: Detailed Cost Estimates by Financier (\$'000)

	ADB ^{a/}		The Government		Total		Duties & Taxes
	Amount	%	Amount	%	Amount	%	
A. ALC Civil Works	169,885.1	83.3	33,977.0	16.7	203,862.1	83.3	33,977.0
B. ALC Plant, Equipment and Vehicles	17,234.6	76.9	5,170.4	23.1	22,405.0	9.2	5,170.4
C. Project Management ^{b/}	3,526.6	100.0	0.0	0.0	3,526.6	1.4	108.0
D. Consulting Services							
Project Management and Supervision Consultants	4,482.5	100.0	0.0	0.0	4,482.5	1.8	0.0
E. Environmental Management	90.7	100.0	0.0	0.0	90.7	0.0	0.0
F. Resettlement	1,500.0	100.0	0.0	0.0	1,500.0	0.6	0.0
G. Project Financial Audit	280.6	100.0	0.0	0.0	280.6	0.1	46.8
Total PROJECT COSTS	197,000.0	83.4	39,147.4	16.6	236,147.4	96.5	39,302.1
Interest During Implementation	0.0	0.0	8,599.4	100.0	8,599.4	3.5	0.0
Total Disbursement	197,000.0	80.5	47,746.8	19.5	244,746.8	100.0	39,302.1

ALC = agro-logistic center

a/ Ordinary Capital Resource (concessional loan); ALC = agro-logistic center

b/ For project management expenses, ADB loan will cover social charges related to staff salaries, and miscellaneous expenses budget under project management will cover among others the office refurbishment expenses.

Source: Asian Development Bank.

Table 7: Detailed Cost Estimates by Output and Component (\$'000)

	Agro-logistic Centers Established		ALC		Total
	Andijan	Samarkand	Management	Project	
	Agro-logistic Center	Agro-logistic Center	Capacity Enhanced	Management	
A. ALC Civil Works	87,572.4	116,289.7	0.0	0.0	203,862.1
B. ALC Plant, Equipment and Vehicles	9,885.1	12,519.9	0.0	0.0	22,405.0
C. Project Management	0.0	0.0	1,200.0	2,326.6	3,526.6
D. Consulting Services					
Project Management and Supervision Consultants	0.0	0.0	1,300.0	3,182.5	4,482.5
E. Environmental Management	0.0	0.0	0.0	90.7	90.7
F. Resettlement	0.0	0.0	0.0	1,500.0	1,500.0
G. Project Financial Audit	0.0	0.0	0.0	280.6	280.6
Total PROJECT COSTS	97,457.5	128,809.6	2,500.0	7,380.3	236,147.4
Interest During Implementation	3,534.0	4,670.9	126.9	267.6	8,599.4
Total Costs to be Financed	100,991.5	133,480.5	2,626.9	7,647.9	244,746.8

ALC = agro-logistic center

Source: Asian Development Bank.

Table 8: Detailed Cost Estimates by Year (\$'000)

	2019	2020	2021	2022	2023	Total
A. ALC Civil Works	0.0	52,306.2	95,772.8	55,783.1	0.0	203,862.1
B. ALC Plant, Equipment and Vehicles	0.0	0.0	0.0	22,405.0	0.0	22,405.0
C. Project Management	461.5	1,012.3	952.7	659.9	440.2	3,526.6
D. Consulting Services						
Project Management and Supervision Consultants	1,237.7	1,369.7	1,373.4	501.6	0.0	4,482.5
E. Environmental Management	67.5	5.6	5.7	5.8	5.9	90.7
F. Resettlement	1,500.0	0.0	0.0	0.0	0.0	1,500.0
G. Project Financial Audit	54.4	55.2	56.1	57.0	57.9	280.6
Total PROJECT COSTS	3,321.2	54,749.0	98,160.7	79,412.4	504.0	236,147.4
Interest During Implementation	31.8	475.7	1,623.3	2,940.7	3,527.8	8,599.4
Total Costs to be Financed	3,353.0	55,224.7	99,784.0	82,353.1	4,031.9	244,746.8

ALC = agro-logistic center

Source: Asian Development Bank.

C. Contract and Disbursement S-Curves

Table 9: Projections for Contract Awards and Disbursement

ADB's Concessional OCR Loan (\$ million)										
Projections for Contract Awards						Projections for Disbursement				
Year	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
2019	0.0	4.5	0.0	0.0	4.5	0.0	0.5	0.3	0.2	1.0
2020	0.0	0.0	0.0	187.1	187.1	0.0	0.0	0.0	19.7	19.7
2021	0.0	2.0	0.0	0.0	2.0	10.0	15.0	10.0	43.8	78.8
2022	2.0	0.0	0.0	0.0	2.0	30.0	35.0	7.0	6.8	78.8
2023	0.0	0.9	0.5	0.0	1.4	3.0	3.0	3.8	3.0	12.8
2024	0.0	0.0	0.0	0.0	0.0	5.9	0.0	0.0	0.0	5.9
Total					197.0					197.0

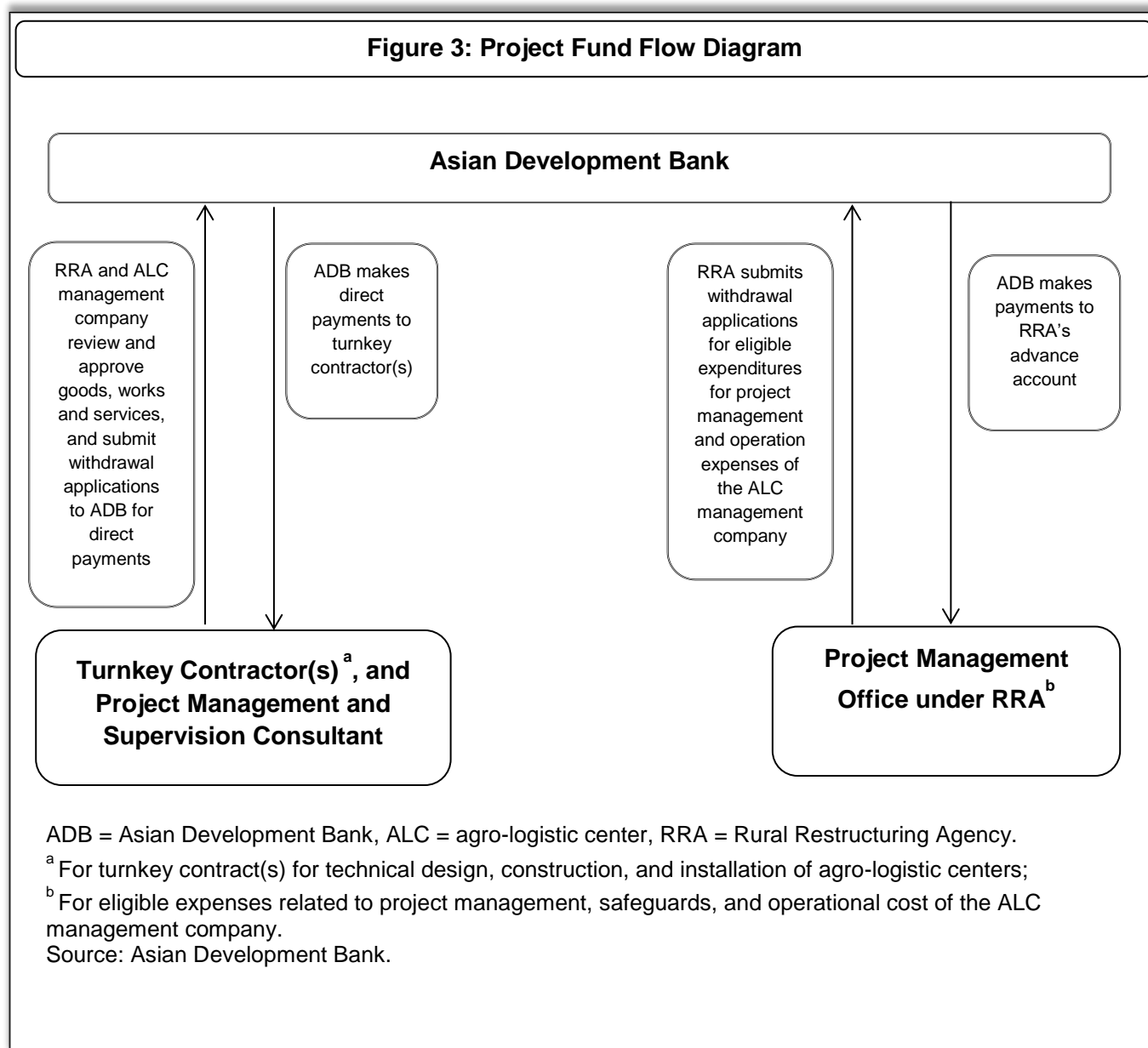
The graph plots two S-curves: Contract Awards (blue line with diamond markers) and Disbursement (orange line with square markers). The Y-axis represents the amount in millions of dollars, ranging from 0.0 to 250.0. The X-axis represents the year from 1 to 6. Contract awards occur almost entirely in Year 2, while disbursements are spread across all six years, with a significant increase in Year 4.

Year	Contract Awards (\$ million)	Disbursement (\$ million)
1	0.0	0.0
2	187.1	2.5
3	187.1	10.0
4	187.1	78.8
5	187.1	128.8
6	187.1	197.0

Source: ADB estimates

D. Fund Flow Diagram

26. The project fund flow diagram is in Figure 3.



V. FINANCIAL MANAGEMENT

A. Financial Management Assessment

27. The financial management assessment (FMA) was conducted during February–March 2018 for the RRA and in September 2018 for the Ministry for Foreign Trade (MFT) in accordance with ADB's Guidelines for the Financial Management and Analysis of Projects and the Financial Due Diligence: A Methodology Note. The FMA considered the capacity of the RRA and MFT, including funds-flow arrangements, staffing, accounting and financial reporting systems, financial information systems, and internal and external auditing arrangements. **Although no project fund will flow through the MFT during the project implementation, FMA was conducted and recommendations were made to help them better able to supervise the ALC management company once set up.**⁴

28. **Rural Restructuring Agency.** Based on the assessment of the RRA, there are no significant financial management risks in respect of its proposed role in project management under the proposed project. The RRA has significant experience in the implementation of projects financed by ADB, the World Bank, and other international financial institutions. The financial management arrangements in place for those projects are appropriate for the proposed project.

29. It is concluded that the overall pre-mitigation financial management risk of the RRA is *moderate*. As the executing agency of the project, RRA has adequate capacity to administer advance account procedures with the six (6) month-expenditure limit proposed and the statement of expenditure (SOE) procedures. RRA has complied with all FMA actions under the Horticulture Value Chain Development Project (Loan 3471-UZB) as of April 2018.

30. **Ministry for Foreign Trade.** Based on the assessment of MFT, the overall pre-mitigation financial management risk is *moderate* in respect of its proposed role in supervising the ALC management company to be established. A number of key risks have been assessed as requiring actions by the MFT, namely (i) the MFT staff are not experienced in managing ADB projects and in ADB procedures; (ii) lack of accounting staff trained and certified in international public sector accounting standards (IPSAS); (iii) fixed assets are not properly registered and labelled with inventory numbers; (iv) no internal audit function in place; and (v) no risk management function in place. Corresponding financial management actions to address the stated risks are outlined in Table 10.

⁴ Detailed FMAs for RRA and MFT are accessible from the list of linked documents in Appendix 2 of the RRP.

Table 10: Ministry for Foreign Trade – Financial Management Action Plan

Risk Descriptions	Risk Rating	Action(s)	Complied by	Responsibility
MFT staff are not experienced in managing ADB projects and in ADB procedures.	M	MFT's accounting staff attend training in ADB monitoring and reporting procedures.	Q3 2019	MFT (with assistance of ADB and RRA)
Lack of accounting staff trained and certified in IPSAS.	M	Support accounting staff in IPSAS training and certification and access to e-module on cash IPSAS. MFT accounting staff complete e-module on cash IPSAS.	Q4 2019	MFT
Fixed assets are not properly registered and labelled with inventory numbers.	M	Conduct inventory of fixed assets and assign and label all fixed assets with inventory numbers (MFT has already developed terms of reference for conducting of inventory with the help of outside valuation company)	Q4 2018	MFT
No internal audit function in place.	M	MFT shall include two internal auditor positions into its staff complement and budget for starting 2019 and hire these internal auditors after MOF's approval of the staff complement and budget. These staff will undertake internal auditing functions for both the MFT and ALC management company.	Internal auditing staff mobilized by Q3 2019	MFT
No risk management function in place.	M	Develop risk management policy and procedures and include relevant risk management functions into job descriptions of heads of departments and divisions. Monitoring to be conducted by internal auditor.	Q3 2019	MFT

ALC = agro-logistic center, IPSAS = International Public Sector Accounting Standards, M = Moderate, MFT = Ministry for Foreign Trade, MOF = Ministry of Finance, RRA = Rural Restructuring Agency.

Sources: Asian Development Bank.

B. Disbursement

31. The loan proceeds will be disbursed in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time),⁵ and detailed arrangements agreed upon between the government and ADB. Online training for PMO staff on disbursement policies and procedures is available.⁶ The PMO staff are encouraged to avail of this training to help ensure efficient disbursement and fiduciary control.

32. The RRA will be responsible for (i) preparing disbursement projections, (ii) collecting and retaining supporting documents, and (iii) preparing and sending withdrawal applications to ADB.

33. **Advance fund procedure.** The RRA will open one US dollar advance account to facilitate disbursements. The advance account is to be used exclusively for ADB's share of eligible expenditures. The RRA who administers the advance account is accountable and responsible for proper use of advances to the advance account. The RRA will establish the advance account in its name and shall be accountable and responsible for proper use of advances to the advance account. The outstanding advance to the advance account under the RRA's name will not exceed the RRA's estimated six-month budget. The request for initial and additional advances to the advance account should be accompanied by an Estimate of Expenditure Sheet⁷ setting out the estimated expenditures to be financed through the account for the forthcoming six (6) months. The ADB's project division (CWER) responsible for project administration will review the reasonableness of the 6-month estimates provided by the RRA. Supporting documents should be submitted to ADB or retained by the RRA in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time) when liquidating or replenishing the advance account.

34. **Statement of expenditure procedure (SOE).**⁸ The SOE procedure may be used for reimbursement of eligible expenditures or liquidation of advances to the advance account. Supporting documents and records for the expenditures claimed under the SOE should be maintained and made readily available for review by ADB's disbursement and review missions, upon ADB's request for submission of supporting documents on a sampling basis, and for independent audit.

35. **Direct payment.** Direct payments to contractors and consultants will be made in accordance with ADB's *Loan Disbursement Handbook* (2017, as amended from time to time).

36. Before the submission of the first withdrawal application, the borrower should submit to ADB sufficient evidence of the authority of the persons who will sign the withdrawal applications on behalf of the government, together with the authenticated specimen signatures of each authorized person. The minimum value per withdrawal application is stipulated in the *Loan Disbursement Handbook* (2017, as amended from time to time). Individual payments below such amount should be paid (i) by the RRA and subsequently claimed to ADB through reimbursement, or (ii) through the advance fund procedure, unless otherwise accepted by ADB. The borrower should ensure sufficient category and contract balances before requesting

⁵ The handbook is available electronically from the ADB website (<http://www.adb.org/documents/loan-disbursement-handbook>).

⁶ Disbursement eLearning. http://wpqr4.adb.org/disbursement_elearning

⁷ Estimate of Expenditure sheet is available in Appendix 8A of ADB's *Loan Disbursement Handbook* (2017, as amended from time to time).

⁸ SOE forms are available in Appendix 7B and 7D of ADB's *Loan Disbursement Handbook* (2017, as amended from time to time).

disbursements. Use of ADB's Client Portal for Disbursements (CPD)⁹ system, once rolled out for Uzbekistan, is encouraged for submission of withdrawal applications to ADB.

37. **Conditions for Loan Disbursement.** No withdrawal will be made from the loan account relating to the turnkey contract until (a) the ALC management company has been duly established and is adequately staffed and fully operational, and (b) the project agreement, in form and substance satisfactory to ADB, has been entered into between ADB and the ALC management company.

C. Accounting

38. The RRA will maintain or cause to be maintained, separate books and records by funding source for all expenditures incurred on the project. The RRA will prepare consolidated project financial statements in accordance with the government's accounting laws and regulations which are consistent with international accounting principles and practices. The RRA will prepare and submit to ADB in the English language within six (6) months of the end of each financial year the audited project financial statement.

D. Auditing and Public Disclosure

39. The RRA will cause the detailed consolidated project financial statements to be audited in accordance with the International Standards on Auditing, by an independent auditor acceptable to ADB. The audited project financial statements together with the auditor's opinion will be presented in the English language to ADB within six (6) months from the end of the fiscal year by the RRA.

40. The audit report for the project financial statements will include a management letter and auditor's opinions, which cover (i) whether the project financial statements present an accurate and fair view or are presented fairly, in all material respects, in accordance with the applicable financial reporting standards; (ii) whether the proceeds of the loan were used only for the purpose(s) of the project; and (iii) whether the executing agency and implementing agency were in compliance with the financial covenants contained in the legal agreements (where applicable).

41. Once set up and operational, ALC management company shall (i) provide their annual financial statements prepared in accordance with International Financial Reporting Standards; (ii) have its financial statements audited annually by independent auditor acceptable to ADB, in accordance with International Standards on Auditing; (iii) as part of each such audit, have the auditors prepare the auditors' opinion(s) on the financial statements and compliance with the financial covenants of the Legal Agreement; and (iv) furnish to ADB, no later than six months after the close of the financial year, copies of such audited financial statements and auditors' opinion(s), all in the English language, and such other information concerning these documents and the audit thereof as ADB shall from time to time reasonably request.

42. Compliance with financial reporting and auditing requirements will be monitored by review missions and during normal program supervision, and followed up regularly with all concerned, including the external auditor.

⁹ The CPD facilitates online submission of WA to ADB, resulting in faster disbursement. The forms to be completed by the Borrower are available online at <https://www.adb.org/documents/client-portal-disbursements-guide>.

43. The government and the RRA have been made aware of ADB's approach to delayed submission, and the requirements for satisfactory and acceptable quality of the audited project financial statements.¹⁰ ADB reserves the right to require a change in the auditor (in a manner consistent with the constitution of the borrower), or for additional support to be provided to the auditor, if the audits required are not conducted in a manner satisfactory to ADB, or if the audits are substantially delayed. ADB reserves the right to verify the project's financial accounts to confirm that the share of ADB's financing is used in accordance with ADB's policies and procedures.

44. Public disclosure of the audited project financial statements, including the auditor's opinion on the project financial statements, will be guided by ADB's Public Communications Policy 2011.¹¹ After the review, ADB will disclose the audited project financial statements and the opinion of the auditors on the project financial statements no later than 14 days of ADB's confirmation of their acceptability by posting them on ADB's website. The management letter, additional auditor's opinions, and audited entity financial statements will not be disclosed.¹²

VI. PROCUREMENT AND CONSULTING SERVICES

A. Advance Contracting and Retroactive Financing

45. All advance procurement will be undertaken in conformity with ADB Procurement Guidelines (2015, as amended from time to time) and ADB's Guidelines on the Use of Consultants (2013, as amended from time to time). The issuance of invitations to bid under advance contracting will be subject to ADB approval. The borrower and RRA have been advised that approval of advance procurement does not commit ADB to finance the project.

46. **Advance contracting.** No contract will be awarded until after loan effectiveness. However, to ensure smooth implementation startup, recruitment process for the PSC will be initiated before ADB's Board approval, which entails advertisement to call for expressions of interest, shortlisting, issuing request for proposals, and proposal evaluations.

47. **Retroactive financing.** Not applicable.

B. Procurement of Goods, Works, and Consulting Services

48. All procurement of goods and works will be undertaken in accordance with ADB's Procurement Guidelines (2015, as amended from time to time). One turnkey contract package,

¹⁰ ADB's approach and procedures regarding delayed submission of audited project financial statements:

- (i) When audited project financial statements are not received by the due date, ADB will write to the executing agency advising that (a) the audit documents are overdue; and (b) if they are not received within the next 6 months, requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters will not be processed.
- (ii) When audited project financial statements are not received within 6 months after the due date, ADB will withhold processing of requests for new contract awards and disbursement such as new replenishment of advance accounts, processing of new reimbursement, and issuance of new commitment letters. ADB will (a) inform the executing agency of ADB's actions; and (b) advise that the loan may be suspended if the audit documents are not received within the next 6 months.
- (iii) When audited project financial statements are not received within 12 months after the due date, ADB may suspend the loan.

¹¹ Public Communications Policy: <http://www.adb.org/documents/pcp-2011?ref=site/disclosure/publications>

¹² This type of information would generally fall under public communications policy exceptions to disclosure. ADB. 2011. *Public Communications Policy*. Paragraph 97(iv) and/or 97(v).

estimated to cost \$213.57 million, will be used to procure detailed engineering designs, civil works, buildings, and equipment supply to establish two ALCs (one in Andijan region and one in Samarkand region). The turnkey contract will follow international competitive bidding using the two-stage procedures. The turnkey contract is proposed to ensure that (i) civil works construction, buildings, and equipment installation for optimal finishing and utility will be consistent with the overall masterplan for each ALC, and coherent with the detailed designs; and (ii) ALCs will be installed with most up-to-date equipment, furniture, and fixtures, which is not the case if the detailed designs are prepared by a separate contractor(s) due to a time lag, needs for adjustments, and design discrepancies. To minimize the risk of inflated cost estimates by the turnkey contractors, the PMO and ALC management company with technical support from the PSC will supervise and guide the ALCs detailed designs; and the government's technical agencies will review such detailed designs until they are in acceptable forms and substance for the government's approval. Only after the ALCs detailed designs are approved, can the turnkey contractor(s) be notified to proceed with civil works, buildings, and equipment installation.¹³ Shopping will be used for contracts for procurement of office equipment and vehicles for project implementation, worth less than \$100,000.

49. All consultants will be recruited according to ADB's Guidelines on the Use of Consultants (2013, as amended from time to time).¹⁴ The PSC will be engaged by the RRA. The terms of reference for the PSC service are detailed in Appendix 2. The contract for consultant's service will be time-based. The PSC comprises a total of 314 person-months (including 232 person-months of international specialists and 82 person-months of national specialists). An international consulting firm will be engaged by the PMO using the quality and cost-based selection (QCBS) method with 90:10 ratio to assist in overall project implementation and supervision. Key aspects of the PSC's work will include, but not limited to the following: (i) set up and develop capacity of the ALC management company in managing and operating the ALCs through preparing and applying operational guides and protocol, coaching and on-the-job training; (ii) assist the PMO in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s); (iii) assist in reviewing and revising bid documents for goods, works, and services for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation; (iv) prepare requests for proposal for capacity development consulting services, and assist PMO in proposal evaluation; (v) provide technical oversight and guidance on technical aspects related to the turnkey contracts including the construction supervision and capacity development; (vi) supervise the implementation of, and monitor the compliances with social and environmental safeguards, and social/gender development aspects; (vii) help set up systems and procedures including relevant management and monitoring templates for PMO and ALC management company to follow; and (viii) build capacity of staff in the PMO and ALC management company to undertake their tasks.

50. An 18-month procurement plan indicating threshold and review procedures, goods, works, and consulting service contract packages and national competitive bidding guidelines is in Section C.

¹³ The draft bid document for the turnkey contract will be drafted by the national consulting firm, which has been engaged for preparing the national feasibility study. This document will be reviewed again and adjusted if necessary by the project management and supervision consultant.

¹⁴ Checklists for actions required to contract consultants by method available in e-Handbook on Project Implementation at: <http://www.adb.org/documents/handbooks/project-implementation/>

C. Procurement Plan

Basic Data

Project Name: Horticulture Value Chain Infrastructure Project	
Project Number: 51041-002	Approval Number: xxxx
Country: UZBEKISTAN	Executing Agency: Rural Restructuring Agency (RRA)
Project Procurement Classification: B	Implementing Agency: RRA, and the Ministry for Foreign Trade
Procurement Risk: Low	
Project Financing Amount: \$244.75 million ADB Financing: \$197.00 million Non-ADB Financing: GOU: \$47.75 million	Project Closing Date: 30 June 2024
Date of First Procurement Plan: 11 October 2018	Date of this Procurement Plan: 11 October 2018

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

51. Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding (ICB) for Works	\$5,000,000	Prior review
International Competitive Bidding (ICB) for Goods	\$2,000,000	Prior review
Shopping for Works	Below \$100,000	Prior review
Shopping for Goods	Below \$100,000	Prior review

Consulting Services	
Method	Comments
Quality- and cost-based selection (QCBS)	Prior review
Least-cost Selection (LCS)	Prior review

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

52. The following table lists the goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Procurement Method	Review [Prior / Post/Post (Sampling)]	Bidding Procedure	Advertisement Date (quarter/year)	Comments
ICB-1: Lot 1/ ICB-1A Lot 2/ ICB-1S	Establishment of Agro-Logistic Centers (ALCs): Lot 1 for Andijan ALC; and Lot 2 for Samarkand ALC ^a	\$213.57 million (Lot 1: \$92.04 million; Lot 2: \$121.53 million)	ICB	Prior	2 stage procedure	Q1 2019	Turnkey contract (design, build, and supply)

^a Figures are inclusive of taxes and duties, but exclusive of contingencies.

ALC = agro-logistic center, ICB = international competitive bidding, Q = quarter.

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

53. The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior / Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
PSC-1	Project management and supervision consulting services	\$4.48 million	QCBS	Prior	Q4 2018	FTP	International, 90:10 ratio.
PFA-2	Project financial audit	\$280,600	LCS	Prior	Q4 2019	BTP	

ALC = agro-logistic center, BTP = bio-data technical proposal, CQS = consultant's qualification selection, FTP = full technical proposal, LCS = least-cost selection, QCBS = quality- and cost-based selection, STP = simplified technical proposal, Q = quarter.

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

54. The following table groups smaller-value goods, works, and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review [Prior / Post/Post (Sampling)]	Bidding Procedure	Advertisement Date (quarter/year)	Comments
PMO-5V	Vehicles for PMO	\$75,000	1	Shopping	Prior	1S/1E	Q1 2019	
PMO-6IT	IT equipment for PMO	\$20,000	1	Shopping	Prior	1S/1E	Q1 2019	
PMO-7AC	Air conditioners for PMO	\$6,000	1	Shopping	Prior	1S/1E	Q1 2019	
PMO-8F	Furniture for PMO	\$20,000	1	Shopping	Prior	1S/1E	Q1 2019	

PMO = project management office, Q = quarter.

B. Indicative List of Packages Required Under the Project: All is included in Section A above.

C. List of Awarded and On-going, and Completed Contracts: None.

D. Non-ADB Financing: None.

E. National Competitive Bidding: Not applicable.

VII. SAFEGUARDS

55. Two sites selected for the proposed project are Andijan and Samarkand. Both sites are categorized as "B" for environment, and "B" for involuntary resettlement. The project is categorized as "C" for indigenous peoples. Safeguard plans have been prepared for both project sites. These plans are: (i) the environmental management plans (see Report and Recommendation of the President [RRP] to the Board of Director linked documents); and (ii) the resettlement plans (see RRP's linked documents).

56. The RRA is responsible for implementing these plans. Budget has been included in the project cost estimates for implementing activities as described in each plan. The PSC package has included the following specialists: (i) international environment specialist; (ii) international resettlement specialist; (iii) national environment specialist; and (iv) national resettlement specialist. The PMO has allocated full-time national environment and resettlement officers to ensure proper implementation and adequate monitoring of the plans throughout the project period. The PSC and PMO staffing and terms of reference are in Appendices 1 and 2, respectively.

57. **Environment.** Impacts from the project are expected to be limited in magnitude and site-specific, mostly related to construction activities. These include generation of dust, waste generation, noise and vibration, transportation of construction materials. Environmental impacts during operation phase include solid waste, impacts on surface and ground water sources (especially for the Samarkand ALC), and from the increased traffic of goods transportation. These impacts could be mitigated by proper implementation of mitigation measures developed in the environmental management plan (EMP).

58. The RRA's PMO will be responsible for implementation of EMP to comply with ADB's safeguards requirements and environmental national regulations. For this purpose, the PMO will hire a qualified full-time environmental officer. International and national environmental specialists of the PSC will assist the PMO and guide the contractors for EMP implementation. The cost for implementing EMP during construction will be financed by the project, specifically, the costs of mitigation measures and environmental monitoring will be included in the construction contracts, and the cost for environmental supervision will be included in the consulting service of the PSC. The PMO is responsible for overall environmental compliance with the ADB's Safeguard Policy Statement (2009). During the operation, EMP implementation will be included in the operating costs of the ALC management company. A grievance redress mechanism to handle both environmental and social safeguard issues will be established after the project effectivity.

59. **Land Acquisition and Resettlement.** The PMO will ensure that land acquisition will be carried out in accordance with Safeguard Policy Statement (2009) requirements, and applicable laws and regulations of Uzbekistan that have been referred to in the land acquisition and resettlement plans (LARPs). The RRA's PMO will ensure that the LARPs will be implemented and monitored to ensure that no project affected person will suffer by unattended impacts associated with land acquisition. The draft LARPs indicated that the project will require approximately 130 ha of land, which will affect approximately 63 households.

60. PMO will be responsible to pay compensation to the affected households due to land acquisition according to the process outlined in the LARPs. The civil works could only be commenced after compensation is fully paid to all the affected households. For implementing the LARP, the RRA will ensure that:

- The RRA, as the executing agency, will establish a PMO with required staff, including a social safeguards and resettlement specialist within the PMO;
- The draft LARPs will be updated after the detailed design is available. The resettlement specialist will carry out adequate consultations with the affected persons. The updated LARPs should indicate any change in land acquisition due to the detailed design, change in the number of the affected persons, and change in budget for the LARP implementation. However, the standards set in the entitlement matrix of the approved draft LARP cannot be lowered in the final LARP without any clear reasons;

- The updated LARPs have to be submitted to ADB for concurrence prior to implementation and have to be submitted as early as possible after the detailed engineering design becomes available;
- The updated LARPs will be disclosed on the ADB and PMO website. The PMO will be responsible to disclose relevant information from the updated LARP to the affected people;
- The awarding of civil works contract will be done only after the affected households receive full payment of compensation, and a report on full payment of compensation needs to be submitted to ADB;
- A report on monitoring the implementation of the LARP, including any grievances will be submitted to ADB on semi-annual basis until the payment of compensation to the affected households is completed; and
- The RRA, through the resettlement specialist of the PMO will observe any unanticipated impacts due to land acquisition and take necessary measures in accordance to the provision described in the LARPs.

61. **Indigenous Peoples.** The project has been classified as category C for indigenous peoples' safeguard. There are no indigenous people's communities in the project area or in the country in general, as defined in the Safeguard Policy Statement (2009) for operational purposes. Accordingly, no indigenous peoples planning documents will be required.

62. **Prohibited investment activities.** Pursuant to Safeguard Policy Statement (2009), ADB funds may not be applied to the activities described on the ADB Prohibited Investment Activities List set forth in the Appendix 5 of the Safeguard Policy Statement (2009).

VIII. GENDER AND SOCIAL DIMENSIONS

63. The proposed project is categorized as "effective gender mainstreaming (EGM)". The main thrusts of gender development associated with the project investment are to (i) improve female entrepreneurship in horticulture business development and management, and (ii) promote job creation for female workers directly and indirectly. Detailed gender action plan (GAP) is presented in Table 11.

Table 11: Project Gender Action Plan

Activities	Performance Targets/ Indicators	Responsibility	Time Frame
Outcome: Production and value addition of horticulture products increased			
1. Promote jobs for female workers in the horticulture value chain	Direct incremental jobs in the horticulture value chain created by ALCs: 75,000 fulltime jobs (equivalent), for on-farm, transportation, sorting, packaging, and certification, including 15,000 jobs for female workers (2017 baseline: 0.9 million)	Project management office (PMO) and ALC management company	By Q3 2023
2. Monitor employment created by ALCs for female workers, and agribusiness startups by female entrepreneurs	Monitoring and reporting, on bi-annual basis, employment for female workers and agribusiness startups by female entrepreneurs	PMO (social and gender officer) in collaboration with Council of Farmers of Uzbekistan, <i>Khokimiyats</i> , Women Committee of Uzbekistan, and ALC	2019- 2023

Activities	Performance Targets/ Indicators	Responsibility	Time Frame
		management company	
Output 1: ALCs Established			
1.1. Ensure gender inclusive designs of ALCs logistics centers	2 ALCs in Andijan and Samarkand have adequate number of separate sanitary facilities for men and women.	PMO and ALC management company	2019–2023
1.2. Promote jobs for female workers in the agro-logistic centers (ALCs)	320 employees working in ALCs facilities in Andijan and Samarkand, at least 25% of which is female (2018 baseline: zero; 2023 target: 80 female employees)	PMO and ALC management company	2019–2023
Output 2: ALCs Management Capacity Improved			
2.1. Ensure women representation in the company management and operations	The management and operation staff of ALC management company has at least 20% female members (2018 baseline: 0; 2023 target: 10 female staff)	PMO and ALC management company	2019–2023
2.2. Improve capacity of the ALC management, core staff and employees and lessees in operations and maintenance and gender awareness	At least 10 training workshops with gender awareness modules conducted for core staff of the ALC management company and ALCs facility lessees, and workers in ALCs to enhance capacity to manage, operate, and maintain the ALCs (120 individuals, including 30 female) (2018 baseline: 0)	PMO and ALC management company	2019–2023
2.3. Improve entrepreneurial abilities for existing and potential women entrepreneurs	At least 50 potential start-up entrepreneurs, including 10 women entrepreneurs, in Andijan and Samarkand provinces are trained in horticulture business development and management. (2018 baseline: 0)	PMO and ALC management company in collaboration with Council of farmers, WC and Local government	2019–2023
3. Gender Actions related to Project Management			
3.1. Recruit national social and gender officer in the PMO	Social and gender officer available in the PMO on full time basis	PMO	By Q1 2019
3.2. Identify gender focal points in the ALC management company	Availability of gender focal point in ALC management company to implement and monitor GAP and relevant targets	PMO (social and gender officer) and ALC management company	By Q1 2019
3.3. Ensure collection of sex-disaggregated baseline and end-line information, and monitor trends on number of female beneficiaries	Sex-disaggregated socio-economic indicators are identified. Baseline data collection is undertaken, and gender analysis is conducted and updated during the project implementation period	PMO (social and gender officer) in association with ALC management company	Baseline data documented by Q3 2019 Annual updates during the project implementation period

Activities	Performance Targets/ Indicators	Responsibility	Time Frame
			End-line data documented by Q2 2023

ALC = agro-logistic center, GAP = gender action plan, PMO = project management office, Q = quarter.
Source: Asian Development Bank.

64. The RRA and the ALC management company will be responsible for the implementation of the GAP. Budget has been included in the project cost estimates for implementing these gender actions. The PMO has allocated full-time national social and gender officer to ensure proper implementation and adequate monitoring of the GAP throughout the project period. The PMO staffing and terms of reference are in Appendix 1.

IX. PERFORMANCE MONITORING, EVALUATION, REPORTING, AND COMMUNICATION

A. Project Design and Monitoring Framework

65. Key monitoring indicators for the proposed project are presented in the design and monitoring framework (DMF) in Appendix 1 of the RRP. The RRA will established a project performance monitoring system by Q3 2019 to enable monitoring of detailed activities, output, outcome, and impact indicators.

B. Monitoring

66. **Project performance monitoring.** The RRA will be required to include in its quarterly and annual progress reports information on all aspects related to the project scope as stated in the DMF. These reports will be ADB's basis for monitoring and updating project performance and measuring the development impact of the project.

67. **Compliance monitoring.** Compliance of loan and project agreement covenants will be monitored through periodic ADB review missions, annual progress reports by the RRA, random checks of documents, and review of the project audited financial statements.

68. **Safeguards monitoring.** The RRA will undertake monitoring and reporting of the implementation of safeguards requirements and procedures specified in the resettlement plans and environmental management plans. The RRA will submit the Annual Safeguards Monitoring Report to ADB by end-January of the following calendar year.

69. **Gender and social dimensions monitoring.** The RRA will be required to report the GAP achievements in its quarterly and annual progress reports.

C. Evaluation

70. ADB will conduct semiannual and midterm review missions to assess the progress of the project and review compliance with the loan agreement and project agreement covenants. The midterm review mission will undertake a comprehensive review of the project design and the performance of the project. It may require a change in the design and implementation arrangements. Within six (6) months of physical completion of the project, the RRA will submit a project completion report to ADB in a form acceptable to ADB.¹⁵

D. Reporting

71. RRA will provide ADB with (i) quarterly progress reports in a format consistent with ADB's project performance reporting system; (ii) consolidated annual reports including (a) progress achieved by output as measured through the indicator's performance targets, (b) key implementation issues and solutions, (c) updated procurement plan, and (d) updated implementation plan for the next 12 months; and (iii) a project completion report within six (6) months of physical completion of the project. To ensure that projects will continue to be both viable and sustainable, project accounts and the RRA's audited financial statement together with the associated auditor's report, should be adequately reviewed.

¹⁵ Project completion report format is available at: <http://www.adb.org/Consulting/consultants-toolkits/PCR-Public-Sector-Landscape.rar>.

E. Stakeholder Communication Strategy

72. Relevant project documents will be disclosed in accordance with ADB's Public Communication Policy 2011. Specifically, the resettlement plans and initial environmental examinations (IEEs) contain public consultations and/or information disclosure plans and grievance reporting mechanism. These documents will be disclosed on ADB's website after the fact-finding mission and communicated with the project-affected people (in addition to consultations during the project feasibility study).

Table 12: ADB Public Communications Strategy

Project Documents	Means of Communication	Responsible Party	Frequency	Audience(s)
Initial Environmental Examination	ADB's website	ADB	Post fact-finding mission	General Public, project-affected people in particular
Resettlement Planning Documents	ADB's website	ADB	Post fact-finding mission	General Public, project-affected people in particular

Source: Asian Development Bank.

X. ANTICORRUPTION POLICY

73. ADB reserves the right to investigate, directly or through its agents, any violations of the Anticorruption Policy relating to the project.¹⁶ All contracts financed by ADB shall include provisions specifying the right of ADB to audit and examine the records and accounts of the executing agency and all project contractors, suppliers, consultants, and other service providers. Individuals and/or entities on ADB's anticorruption debarment list are ineligible to participate in ADB-financed activity and may not be awarded any contracts under the project.¹⁷ To support these efforts, relevant provisions will be included in the loan and project agreements and the bidding documents for the project.

XI. ACCOUNTABILITY MECHANISM

74. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism.¹⁸

XII. RECORD OF CHANGES TO THE PROJECT ADMINISTRATION MANUAL

75. All revisions/updates during course of project implementation should be retained in this Section to provide a chronological history of changes to implemented arrangements recorded in the PAM.

¹⁶ Anticorruption Policy: <http://www.adb.org/Documents/Policies/Anticorruption-Integrity/Policies-Strategies.pdf>

¹⁷ ADB's Integrity Office web site: <http://www.adb.org/integrity/unit.asp>

¹⁸ Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

Description of Revision	Date
PAM Agreed with the Government during the fact-finding mission	12 September 2018
PAM Agreed with the Government at loan negotiations	11 October 2018
Inception mission	

APPENDIX 1: PROJECT MANAGEMENT OFFICE – STAFF REQUIREMENT AND SUMMARY OF RESPONSIBILITIES

	Positions	No. of staff	Person-months	Summary of Responsibilities
1.	Project Director	1	60	<ul style="list-style-type: none"> • Oversee and provide overall guidance for the project management and implementation; and • Sign the project agreement with ADB, contracts with contractors/consultants on behalf of the government, and communication documents to ADB regarding the project management and implementation.
2.	Project Manager	1	60	<ul style="list-style-type: none"> • Oversee day-to-day management and implementation of the project with assistance of the PSC; • Supervise deliverables of the PSC and capacity development consultants; • Liaise with the government ministries, regional administrations, ALC management company, turnkey contractors, and consultants on a regular basis to ensure smooth project implementation; and • Review and endorse project-related documents for final decisions by the RRA's Director General and ADB.
3.	Finance Manager (or Chief Accountant)	1	60	<ul style="list-style-type: none"> • Manage the project accounts and reporting system to ensure compliances with ADB's and the government's regulations; • Ensure that a sound financial management system is in place in accordance with the national and international accounting standards; • Prepare project budget, and monitor project contract awards and disbursement in coordination with the procurement specialist and other specialists; • Facilitate project financial audits to ensure compliances with ADB's and the government's requirements; and • Endorse direct payment requests and withdrawal applications to the PMO's management for final authorization for sending to ADB.
4.	Accountant	1	60	<ul style="list-style-type: none"> • Review the direct payment requests from contractors and consultants in consultation with the PSC and procurement officer; and • Prepare withdrawal applications for advance, liquidation, and replenishment with regard to RRA's PMO advance account in accordance with ADB's procedures.
5.	Procurement Officer	1	60	<ul style="list-style-type: none"> • Expedite the mobilization of the PSC (if required); • Work closely with the PSC to ensure quality of bid documents, bid evaluation, and contracting for the turnkey contracts; • Work closely with the PSC to ensure quality of requests for proposal, proposal evaluation, and contracting for the capacity development consulting service contract;

	Positions	No. of staff	Person-months	Summary of Responsibilities
				<ul style="list-style-type: none"> • Monitor the contract clauses and progress for all project-related contracts; and • Ensure all project-related procurements follow ADB's procurement guidelines and procedures.
6.	Legal Officer	1	60	<ul style="list-style-type: none"> • Work closely with the PSC to ensure quality of bid documents, bid evaluation, and contracting for the turnkey contracts; • Work closely with the PSC to ensure quality of requests for proposal, proposal evaluation, and contracting for the capacity development consulting service contract; • Monitor the contract clauses and progress for all project-related contracts from the legal perspectives; and • Provide legal advice and inputs on all project-related issues.
7.	Monitoring and Evaluation Officer	1	60	<ul style="list-style-type: none"> • Work with the PSC and other PMO staff to ensure the project performance and monitoring system (PPMS) is in place; • Collect data and update the system regularly and as/when required; and • Provide inputs, data and information into monthly briefs, quarterly progress reports, and annual progress reports.
8.	Environment Officer	1	60	<ul style="list-style-type: none"> • Together with the PSC, implement the EMPs for all project sites, and ensure all is complied with ADB's and the government's laws and regulations.
9.	Resettlement Officer	1	30	<ul style="list-style-type: none"> • Together with the PSC, implement the resettlement plans for all project sites, expedite the site clearance, and ensure all is complied with ADB's and the government's laws and regulations.
10.	Social and Gender Officer	1	60	<ul style="list-style-type: none"> • Lead implementation of the gender action plan and other social development initiatives related to the project; • Monitor GAP activities; • Collect and monitor employment indicators (including development of monitoring tools and time frame); • Liaise with regional administrations and other stakeholders to ensure the gender action plans are implanted properly; and • Provide inputs, data, and information related to gender and social development to the PPMS, and to the monthly briefs, quarterly progress reports, and annual progress reports.
11.	Regional Project Coordinators (Andijan and Samarkand)	2	120	<ul style="list-style-type: none"> • Coordinate and facilitate field work of the PSC, other PMO officers, and ADB's review missions in subproject areas; and • Provide support for all implementation issues in the subproject areas, including site clearance construction, safeguards compliances, social and

	Positions	No. of staff	Person-months	Summary of Responsibilities
				gender development.
12.	Agro-Logistic Center Management Officer	1	60	<ul style="list-style-type: none"> • Work with capacity development consultant to conduct training and experience and skill transfers to ALC management company, and other stakeholders in terms of the management models, operation and maintenance, rent and revenue management.
13.	Construction Manager/Coordinator	1	60	<ul style="list-style-type: none"> • Work closely with the PSC on bid preparation, bid evaluation, and contracting for the turnkey contracts; • Together with the PSC, review contract implementation progress with turnkey contractors on a regular basis to ensure the progress is as planned; and • Liaise with provincial administrations to ensure site clearance is obtained on time and ready for construction.
14.	Engineer	1	60	<ul style="list-style-type: none"> • Work with the PSC on various technical engineering areas related to the agro-logistic centers, from bid documents to commissioning.
15.	Construction Site Inspectors (technical supervision) (Andijan and Samarkand)	2	84	<ul style="list-style-type: none"> • Together with the PSC, undertake on-site inspections and report to the PMO management; and • Provide information, data and documentation of issues/evidence and recommend corrective measures and action plans.
	Support Staff			
16.	Office Administrator	1	60	<ul style="list-style-type: none"> • Provide administration support for the project management and implementation.
17.	Translator	1	60	<ul style="list-style-type: none"> • Interpret and translate project documents
18.	Drivers	3	180	<ul style="list-style-type: none"> • Terms and conditions will be specified in the employment contract
19.	Guard	1	60	<ul style="list-style-type: none"> • Terms and conditions will be specified in the employment contract
20.	Cleaner	1	60	<ul style="list-style-type: none"> • Terms and conditions will be specified in the employment contract

ADB = Asian Development Bank, ALC = agro-logistic center, EMP = environmental management plan, GAP = gender action plan, PMO = project management office, PPMS = project performance and monitoring system PSC = project management and supervision consultant, RRA = Rural Restructuring Agency.

APPENDIX 2: TERMS OF REFERENCE FOR PROJECT MANAGEMENT AND SUPERVISION CONSULTING SERVICE

Republic of Uzbekistan

Project No. 51041-002: Horticulture Value Chain Infrastructure Development Project Terms of Reference for Project Management and Supervision Consulting Service

A. PROJECT BACKGROUND

1. The proposed project supports the government's plan to establish horticulture clusters where production and post-harvest services can be consolidated to improve efficiency and economies of scale. It will finance the establishment of agro-logistic centers (ALCs) in two locations—Andijan and Samarkand—taking into account international best practices. Such infrastructure will provide all necessary facilities and services under one roof: trading, storage, processing, food safety certification, customs clearance, transport, shipping, marketing advisory services, trade finance and commercial banking, etc. Significantly larger volumes of product with improved quality will be marketed as a result of better post-harvest logistics that will facilitate reduced post-harvest losses and increased domestic sales and exports. The ALCs will enhance value-chain linkages with production, post-harvest processing, and handling following international quality, and safety standards. Increased export and domestic marketing of horticultural products will increase price transmission to small-scale producers, and small- and medium-sized agribusinesses. It will also support further diversification of the agriculture sector from cotton to horticulture, which generates higher financial and economic returns, and involves fewer social and environmental concerns.

2. The Rural Restructuring Agency (RRA) will be the executing agency, and the project management office (PMO) under the RRA will oversee implementation activities, including monitoring of ALCs' detailed designs, construction, land acquisition and resettlement, and social and environmental safeguards. It will also manage the consultants for project management and supervision and capacity building. An ALC management company will be established under the Ministry for Foreign Trade as a limited liability company to act as a special purpose vehicle of the government in (i) organizing and modernizing the horticulture value chain; (ii) improving linkages between value chain actors through the ALCs; and (iii) being conduits for agro-product safety and traceability through sanitary and phytosanitary measures and product certifications. The ALC management company will work closely with the RRA in supervising of the construction of the ALCs and undertaking the management of the ALCs upon completion.

B. THE CONSULTING SERVICES

I. Objective and Scope of work

3. **Objective.** International consulting services will be required to assist the executing agency (the RRA), and ALC management company in project management and supervision. The project management and supervision consultant (PSC) will be selected and engaged in accordance with ADB's *Guidelines on the Use of Consultants* (2013, as amended from time to time). The RRA will recruit the PSC following the quality- and cost-based selection procedure with 90:10 ratio.

4. **Scope of Work.** An international consulting firm (the consultant) will be engaged by the Project Management Office (PMO). The PSC consultant will assist PMO and management company in overall project implementation and supervision. Key aspects of the consultant's

work will include, but not limited to the following:

- (i) Set up and develop capacity of the ALC management company in managing and operating the ALCs through preparing and applying operational guides and protocol, coaching and on-the-job training;
- (ii) Assist the PMO and ALC management company in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (iii) Assist in reviewing and revising bid documents for goods, works, and services for the turnkey contracts for establishing the ALCs in selected project sites; and assist PMO and ALC management company in bid evaluation;
- (iv) Prepare requests for proposal for capacity development consulting services, and assist PMO in proposal evaluation;
- (v) Provide technical oversight and guidance on technical aspects related to the turnkey contracts, and capacity development;
- (vi) Supervise the implementation of, and monitor the compliances with social and environmental safeguards, and social/gender development aspects;
- (vii) Help set up systems and procedures including relevant management and monitoring templates for PMO and management company to follow; and
- (viii) Build capacity of staff in PMO and ALC management company to undertake their tasks.

5. **Consultant's General Qualifications.** The minimum requirements for the consultant are: (i) an international firm with extensive and proven experience in agro-logistic infrastructure project management and development, implementing and supervising turnkey contracts, and detailed engineering designs of agro-logistic infrastructure projects; (ii) familiarity with requirements of infrastructure development projects in the Republic of Uzbekistan is preferred; and (iii) experience in implementation and supervision of similar large-scale agro-logistic infrastructure projects. The international consulting firm may associate with other international and national consulting firms as appropriate.

6. **Budget and Expertise Schedule.** The estimated budget for the PSC service is \$4.48 million. The contract for consultant's service will be time-based. The PSC comprises a total of 314 person-months (including 232 person-months of international specialists and 82 person-months of national specialists). A summary of input schedule is given in the table below.

Summary Consultant Input Schedule

Position	Total	Key or Non-key Position
A. International Specialists		
1. Team Leader/Design and Supervision Engineer	26	Key
2. Logistic Facilities Planning Specialist	12	Key
3. Supervision Engineer 1 – Civil Works and Road	24	Key
4. Supervision Engineer 2 – Drainage and Wastewater	24	Key
5. Supervision Engineer 3 – Refrigeration	12	Key
6. Procurement and Contract Management Specialist	21	Key
7. Environment Specialist	6	Non-key
8. Resettlement Specialist	7	Non-key
9. Unallocated: to assist in setting up ALC management company and capacity development ^a	100	
Sub-total (A)	232	
B. National Specialists		
1. Deputy Team Leader/Design and Supervision Engineer	34	Key
2. Environment Specialist	24	Non-key

Position	Total	Key or Non-key Position
3. Resettlement Specialist	24	Non-key
Sub-total (B)	82	
Total (A+B)	314	

^a The unallocated person months will be further broken down to include specific international and national expertise by position before calling for expression of interest from interested consulting companies. While the overall budget remains unchanged, the number of person months may vary depending on actual need of expertise mix.

Source: Asian Development Bank estimates.

II. Outline Terms of Reference by Expertise

7. Team Leader/International Design and Supervision Engineer (26 person-months); Deputy Team Leader/National Design and Supervision Engineer (34 person-months). The international design and supervision engineer will be the PSC team leader, and the national design and supervision engineer will be the PSC deputy team leader, and thus together responsible for overall team coordination, and delivery of quality and timely outputs as stated in the consulting service scope of work. Technically, they will support the PMO in the delivery of the project outputs. They will be qualified engineers (preferably civil engineers) with at least a master's degree in civil engineering or architecture, and at least 15 years of continuous experience in technical designs and supervision of turnkey contracts for construction and installation of similar logistic infrastructure projects. They will have had experience in setting up supervision systems and procedures with appropriate quality control. The international design and supervision engineer must have experience in setting up agro-logistic systems, experience in the region (South and/or Central and West Asia), experience in providing training on design and supervision, and experience in coordinating and managing teams. For the national design and supervision engineer, experience with and familiarity with Uzbekistan's national regulations related to design standards and parameters for infrastructure project are required. Both engineers are required to have significant team leadership experience in similar assignments. They will report to the PMO and will work in close coordination with team of specialists of the PSC and the PMO staff. They will:

- (i) Assist the PMO and ALC management company in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Be responsible for (a) overall direction, coordination, and management of inputs and deliverables of the PSC team; and (b) monitoring and reporting the progress related to project management, implementation, and supervision;
- (iii) Provide technical oversight and guidance on technical aspects related to the turnkey contracts, and capacity development. In particular, they are responsible for final contract documents, and final technical designs related to all facilities in harmony with the overall design of the ALCs, and supervising the construction and installation of the ALCs until completion;
- (iv) In coordination with the PSC specialists and PMO staff, (a) prepare bid documents for goods, works, and services for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation (in this regard, act as a member on bid evaluation committees if requested to do so); (b) prepare requests for proposal for capacity development consulting services, and assist PMO in proposal evaluation (in this regard, act as a member on proposal evaluation committees if requested to do so); (c) supervise the implementation of, and monitor the compliances with social and environmental safeguards, and social/gender development aspects; (d) set up systems and procedures including relevant

management and monitoring templates for PMO and ALC management company to follow; and (e) build capacity of staff in PMO and ALC management company to undertake their tasks;

- (v) Measure and certify quantities of work, and review contractors' claims for payments, and prepare payment certificates;
- (vi) Assist the PMO in preparing withdrawal applications and keeping track of the contract awards and disbursements/payment from the loan account proceeds; and
- (vii) Prepare the PSC's quarterly progress reports for project management and supervision, plus brief monthly summary reports (maximum of 5 pages) with support as required from other PSC team members. These reports shall need to highlight potential and actual issues/problems in all areas related to turnkey contracts, capacity development, safeguards and gender development, and recommend corrective measures and/or actions for PMO's actions.

8. Logistic Facilities Planning Specialist (International: 12 person-months). The logistic facilities planning specialist must be a qualified engineer or architect with at least a master's degree in engineering, architecture and/or urban planning, with at least 15 years of continuous experience in establishing and sketching layouts and master plans for logistic centers for agriculture produce. (S)he will have had experience in setting up supervision systems and procedures for product flows with appropriate quality control. Experience of working with companies having established food distribution system and/or market infrastructure and/or logistics in developed or developing countries will be preferable. (S)he will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Provide technical oversight and guidance on technical aspects related to the turnkey contracts. In particular, (s)he is responsible for reviewing and endorsing final contract documents, and final layouts and masterplans for the overall design of the ALCs, and supervising the completion of all construction and installation of buildings, associated infrastructure items and facilities until completion;
- (iii) In coordination with other PSC specialists and PMO staff, (a) prepare bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation; (b) set up systems and procedures including relevant management and monitoring templates for PMO and ALC management company to follow; and (c) build capacity of staff in PMO and ALC management company to undertake their tasks; and
- (iv) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or /problems related to the layouts and master plans in turnkey contracts and recommending corrective measures and/or actions for PMO's actions.

9. Design and Supervision Engineer 1 – Civil Works and Road (International: 24 person-months). The supervision engineer 1 – civil works must be a qualified engineer with at least a bachelor's degree in civil engineering, with experience in commercial, logistic, administrative buildings, roads, and railways, with at least 10 years of continuous experience in supervising and monitoring civil construction, including logistic infrastructure works related to food distribution. (S)he will have had experience in setting up supervision systems and procedures with appropriate quality control. Experience of working with civil engineering

companies or companies having established market infrastructure and/or logistics in developed or developing countries will be preferable. (S)he will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Provide technical oversight and guidance on technical aspects related to the turnkey contracts. In particular, (s)he is responsible for reviewing and endorsing final contract documents, and final technical designs related to buildings and facilities, land levelling, roads, streets, bridges, and utilities, as integral parts of and in harmony with the overall design of the ALCs, and supervising the construction of buildings and facilities until completion;
- (iii) In coordination with other PSC specialists and PMO staff, (a) prepare bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation; (b) set up systems and procedures including relevant management and monitoring templates for PMO and ALC management company to follow; and (c) build capacity of staff in PMO and ALC management company to undertake their tasks;
- (iv) In coordination with Team Leader, undertake the following: (a) inspection of construction works and related activities under his/her expertise to assure compliance with technical specifications, supply and/or work schedules and the contract(s); (b) review of contractors' submittals (including drawings and all documents) and ensure their compliance with the technical specifications and the contract(s); (c) measure and certify quantities of work, review contractors' claims for payments, and prepare payment certificates; (d) prepare instructions to contractors for replacement of substandard works and equipment and rectifying deviations; (e) provide guidance to contractors regarding quality control procedures, contracts' provisions and technical specifications; (f) supervise testing of materials on site; (g) supervise off-site laboratory testing, where necessary; and (h) ensure contractors prepare operation, maintenance and management manuals for the facilities constructed under the project; and
- (v) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to buildings and facilities, land levelling, roads, streets, bridges, and utilities in turnkey contracts and recommending corrective measures and/or actions for PMO's actions.

10. Design and Supervision Engineer 2 – Drainage and Wastewater (International: 24 person-months). The supervision engineer 2 – drainage, and wastewater must be a qualified engineer with at least a bachelor's degree in engineering, specialized in road, drainage, and wastewater, with at least 10 years of continuous experience in the supervision and monitoring of drainage, sewerage, and water treatment. (S)he will have had experience in setting up supervision systems and procedures with appropriate quality control. Experience of working with companies having established market infrastructure and/or logistics in developed or developing countries will be preferable. (S)he will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Provide technical oversight and guidance on technical aspects related to the turnkey contracts. In particular, (s)he is responsible for reviewing and endorsing final contract documents, and final technical designs and specifications related to

- water supply, water supply plants, wastewater plants, water distribution, and wastewater conveyance facilities as integral parts of and in harmony with the overall design of the ALCs, and supervising the completion of these facilities;
- (iii) In coordination with other PSC specialists and PMO staff, (a) prepare bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation; (b) set up systems and procedures including relevant management and monitoring templates for PMO and ALC management company to follow; and (c) build capacity of staff in PMO and ALC management company to undertake their tasks; and
 - (iv) In coordination with Team Leader, undertake the following: (a) inspection of works and/or activities under his/her expertise to assure compliance with technical specifications, supply and/or work schedules and the contract(s); (b) review of contractors' submittals (including drawings and all documents) and ensure their compliance with the technical specifications and the contract(s); (c) measure and certify quantities of work, review contractors' claims for payments, and prepare payment certificates; (d) prepare instructions to contractors for replacement of substandard works and equipment and rectifying deviations; (e) provide guidance to contractors regarding quality control procedures, contracts' provisions and technical specifications; (f) supervise testing of materials on site; (g) supervise off-site laboratory testing, where necessary; and (h) ensure contractors prepare operation, maintenance and management manuals for the facilities constructed under the project; and
 - (v) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to water supply, water supply plants, wastewater plants, water distribution and wastewater conveyance facilities in turnkey contracts and recommending corrective measures and/or actions for PMO's actions.

11. Design and Supervision Engineer 3 – Refrigeration (International: 12 person-months). The supervision engineer 3 – refrigeration must be a qualified engineer with at least a bachelor's degree in mechanical engineering or other similar engineering disciplines, specialized in fresh food refrigeration, with at least 10 years of continuous experience in supervising and monitoring setting-up and installation of refrigeration facilities related to food distribution. (S)he will have had experience in setting up supervision systems and procedures with appropriate quality control. Experience of working with companies having established fresh food refrigeration system and/or market infrastructure and/or logistics in developed or developing countries will be preferable. (S)he will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Provide technical oversight and guidance on technical aspects related to the turnkey contracts. In particular, (s)he is responsible for reviewing and endorsing final contract documents, and final technical designs and specifications related to refrigeration facilities as integral parts of and in harmony with the overall design of the ALCs, and supervising the installation of refrigeration facilities until completion;
- (iii) In coordination with other PSC specialists and PMO staff, (a) prepare bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation; (b) set

up systems and procedures including relevant management and monitoring templates for PMO and ALC management company to follow; and (c) build capacity of staff in PMO and ALC management company to undertake their tasks;

- (iv) In coordination with Team Leader, undertake the following: (a) inspection of cold chamber construction/installation, and other related activities under his/her expertise to assure compliance with technical specifications, supply and/or work schedules and the contract(s); (b) review of contractors' submittals (including drawings and all documents) and ensure their compliance with the technical specifications and the contract(s); (c) measure and certify quantities of work, review contractors' claims for payments, and prepare payment certificates; (d) prepare instructions to contractors for replacement of substandard works and equipment and rectifying deviations; (e) provide guidance to contractors regarding quality control procedures, contracts' provisions and technical specifications; (f) supervise testing of materials on site; (g) supervise off-site laboratory testing, where necessary; and (h) ensure contractors prepare operation, maintenance and management manuals for the facilities constructed under the project; and
- (v) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to refrigeration facilities in turnkey contracts and recommending corrective measures and/or actions for PMO's actions.

12. Procurement and Contract Management Specialist (International: 21 person-months). The specialist must have at least a post-graduate degree, preferably a master's degree in civil engineering, law, economics, business administration, finance, or other relevant educational background with at least 15 years of experience in procurement and contract management and familiarity with ADB procurement procedures and practices. Experience of Uzbek finance and procurement systems is preferable. (S)he will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Ensure that the ADB's procurement directives and norms, described in the loan and project agreements, are fully respected in all stages of the procurement of goods, works and services for the project;
- (iii) Assist the PMO in preparing bidding documents for the turnkey contracts in accordance with ADB guidelines taking into account the Uzbek Procurement Law and relevant regulations. Coordinating and supervising all project procurement activities, in close coordination with the PMO and ADB;
- (iv) Review tender documents with particular reference to the commercial aspects to ensure ADB comments are incorporated in the final version;
- (v) Assist in evaluation of bids and proposals if requested, and in the preparation of any relevant evaluation reports;
- (vi) Supervise the contract clauses and contractual compliances by the contractors;
- (vii) Assist the PMO in regular update of the procurement plan in coordination with the work plan and time schedule of the project and the financing plan;
- (viii) Support the PMO during contract negotiations and ensure meetings are properly recorded and ADB norms and applicable national regulations are followed and that these are attached as annexes to the contract form;

- (ix) Develop systems to train and transfer procurement skills on various aspects of ADB's procedures for PMO;
- (x) Verify that correct documentation for each disbursement related to the execution of the contracts is maintained and that the corresponding contractual obligations have been fulfilled;
- (xi) Assist in the planning and budgeting for the project program, taking the lead role in the financial plan and budgets and ensuring that the assumptions, parameters, guidelines and policies in planning are complied with; and
- (xii) Ensure timely preparation and submission of progress reports related to procurement and disbursement; particularly, contributing inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to procurement and disbursement and recommending corrective measures and/or actions for PMO's actions.

13. Environment Specialists (International: 6 person-months; National: 24 person-months). The environment specialists must have at least bachelor's degrees in environmental science or natural resource management or the equivalent from a recognized institution, with at least 10 years of continuous experience working in the field of environmental management, for internationally funded infrastructure development projects. They are also required to have considerable experience in environmental monitoring and be familiar with the laws and regulations of Uzbekistan related to environmental safeguards as well as having had experience in ADB-financed infrastructure development projects as environmentalists. They will be guided by the government's procedures on environmental management, ADB's Safeguards Policy Statement (2009), and the project environmental management plan (EMP) for each subproject. Training skills would also be an advantage. They will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s), particularly with Safeguard Policy Statement (2009) requirements and project environment-related legal covenants;
- (ii) Review the initial environmental examinations (IEEs) for subprojects conducted during the feasibility study stage to understand the EMPs, and assist the PMO in updating the IEEs in case of technical design changes or unanticipated impacts;
- (iii) Supervise the turnkey contractors during the detailed design and construction/installation of works and facilities to ensure EMPs and measures are properly implemented;
- (iv) Assist PMO in ensuring safeguard compliance of civil works – with a particular emphasis on the monitoring of implementation of the EMPs through the site-specific environmental monitoring plans and related aspects of the project;
- (v) Provide on-the-job trainings to the PMO's environment officer and contractor's environmental staff prior to the start of construction to develop their knowledge and understanding of the environmental, social, health and safety aspects of the project, and build capacity of staff in PMO and ALC management company to undertake their tasks in EMP monitoring;
- (vi) In coordination with other PSC specialists and PMO staff, and with regards to EMPs, contribute to the preparation of bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation when required;
- (vii) Assist PMO in preparation of bi-annual environmental monitoring reports for further submission to ADB; and

- (viii) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to EMP and recommending corrective measures and/or actions for PMO's actions.

14. Resettlement Specialists (International: 7 person-months; National: 24 person-months). The resettlement specialists must have at least bachelor's degrees in social sciences, sociology, anthropology or other relevant disciplines for the assignment from a recognized institution, with at least 10 years of continuous experience working in the field of human settlement and social safeguards for internationally funded development projects. They are also required to have considerable experience in resettlement planning and social safeguards monitoring and be familiar with the laws and regulations of Uzbekistan related to social safeguards and resettlement as well as having had experience in ADB-financed infrastructure development projects. They will be guided by the government's procedures on resettlement, Safeguards Policy Statement (2009), and the project resettlement plan for each subproject. Training skills would also be an advantage. They will:

- (i) Assist the team leader in managing and implementing the project and ensuring compliance with the project implementation plan, the loan agreement, and the project agreement(s);
- (ii) Review and update the subproject resettlement plans conducted during the feasibility study stage based on detailed design in order to finalize them into an implementation-ready status, in particular, conducting the detail measurement surveys, census and socio-economic survey and consultations with affected people, finalizing the replacement cost profiles and entitlement matrix, updating of the grievance redress mechanism as needed, and setting up detailed monitoring framework;
- (iii) Assist the PMO in implementation of resettlement plans, in particular, payment for compensation and other practical arrangements to affected people as per the final compensation and income restoration measures defined by the entitlement matrix and stated in resettlement plans prior to construction commencement;
- (iv) Assist the PMO in monitoring of the resettlement plan implementation for each subproject;
- (v) Assist the PMO in updating the resettlement plans for each subproject in case of changes in subproject designs;
- (vi) In coordination with other PSC specialists and PMO staff, and with regards to resettlement plans, (a) contribute to the preparation of bid documents for the turnkey contracts for establishing the ALCs in selected project sites, and assist PMO and ALC management company in bid evaluation if and when required; (b) set up systems and procedures for resettlement plans monitoring; and (c) build capacity of staff in PMO and ALC management company to undertake their tasks in resettlement plan preparation, implementation, and monitoring; and
- (vii) Contribute inputs to the PSC's quarterly progress reports for project management and supervision and the brief monthly summary reports, highlighting potential and actual issues and/or problems related to resettlement plans and recommending corrective measures and/or actions for PMO's actions.

15. Assistance in setting up the ALC management company and capacity development in operations and management of ALCs (unallocated: International 100

person-months).¹ Since the ALC management company is not yet in place, the consultant will be required to provide these services in parallel with the project supervision activities to set up the ALC management company and development its capacity to undertake the management of the ALCs. Since this kind of services is new to Uzbekistan, it is expected that the consulting firm indicate in the technical proposal the composition of the required expertise, detailed input schedule, and how best the tasks will be undertaken. For this purpose, an allocated 100 person-months international consulting input has been reserved.

16. Indicative activities include but not limited to the following:
- Set up ALC management company taking into account Uzbekistan's development and institutional context and international practices;
 - Assist the ALC management company to function as a professional service firm in line with corporate governance principles and commercial law;
 - Prepare operation and management guidelines for ALCs, defining the management and operation options upon completion of ALCs, quality and safety certification system, and conducting coaching and training to ALCs management and staff members accordingly;
 - Assist with the formation of producers' and traders' associations, contract farming, market linkages, and incentive system for various group of ALCs users;
 - Develop capacity in certification, sorting/grading, marketing, and exporting;
 - Assist in conducting overseas study visits to learn from successful international agro-logistic models before the detailed designs and construction/installation take place;
 - Provide overall support and coordination for implementation of the ALCs by means of devising management plan for operationalization of the ALCs;
 - Devise various strategies for further revenue generation in line with changing economic scenarios and consumer preferences;
 - Assist in marketing activities of ALCs and promotion;
 - Mentor ALC management company in initial day to day operation;
 - Assist in budgeting for operational & administration cost;
 - Conduct marketing related activities to popularize the ALCs among various stakeholders;
 - Undertake process optimization for the ALCs facilities in terms of quality, safety, standard, sanitation;
 - Guide overall management of ALCs; cleaning, security, maintenance, etc.
 - Provide coaching to operate and manage the facilities efficiently and professionally;
 - Develop capacity in handling IT/software related activities to facilitate price and information systems and record keeping;
 - Guide in management of waste generated from wholesale market, cold storage, post-harvest and marketing facilities;
 - Guide in the government compliances/statutory requirements and prevent violations of any government order/law related to labor safety, environment, food safety, and resource utilization; and
 - Organize the transfer/movement from truck-based sales parking and markets to the new ALCs.

¹ The unallocated person months will be further broken down to include specific international and national expertise by position before calling for expression of interest from interested consulting companies. While the overall budget remains unchanged, the number of person months may vary depending on actual need of expertise mix.

APPENDIX 3: DETAILED COST ESTIMATES OF AGRO-LOGISTIC CENTERS

Table 1. Andijan ALC																					
Detailed Costs																					
Unit	Quantities					Total	Unit Cost (US\$)	Base Cost (US\$ '000)					Total	Totals Including Contingencies (US\$ '000)					Total		
	2019	2020	2021	2022	2023			2019	2020	2021	2022	2023		2019	2020	2021	2022	2023			
I. Investment Costs																					
A. Groundwork and Infrastructure																					
ALC Entrance	m2	-	33.5	167.5	134	-	335	885.00	-	29.6	148.2	118.6	-	296.5	-	38.2	194.0	157.7	-	389.8	
Land Levelling, Roads, Parking, etc	m2	-	60,602	48,481.6	12,120.4	-	121,204	131.00	-	7,938.9	6,351.1	1,587.8	-	15,877.7	-	10,229.2	8,310.2	2,110.8	-	20,650.1	
Electricity Distribution Network	m2	-	-	-	1,000	-	1,000	690.00	-	-	-	690.0	-	690.0	-	-	-	917.3	-	917.3	
Water Supply	m2	-	1,450	1,450	-	-	2,900	285.00	-	413.3	413.3	-	-	826.5	-	532.5	540.7	-	-	1,073.2	
Waste Water Treatment Plant	m2	-	1,750	1,750	-	-	3,500	454.00	-	794.5	794.5	-	-	1,589.0	-	1,023.7	1,039.6	-	-	2,063.3	
Solid Waste Management System	m2	-	131.5	1,183.5	-	-	1,315	230.00	-	30.2	272.2	-	-	302.5	-	39.0	356.2	-	-	395.1	
Railway Line	m2	-	880	220	-	-	1,100	207.00	-	182.2	45.5	-	-	227.7	-	234.7	59.6	-	-	294.3	
Highway Access	m2	-	1,600	-	-	-	1,600	136.00	-	217.6	-	-	-	217.6	-	280.4	-	-	-	280.4	
Subtotal																					
										9,606.3	8,024.8	2,396.4	-	20,027.4	-	12,377.6	10,500.2	3,185.7	-	26,063.5	
B. Buildings																					
Fruit and Vegetable Storage/Sale - Wholesalers	m2	-	1,250.5	6,252.5	5,002	-	12,505	608.00	-	760.3	3,801.5	3,041.2	-	7,603.0	-	956.3	4,855.7	3,946.7	-	9,758.8	
Fruit and Vegetable Storage/Sale - Small Farmers	m2	-	1,250.5	6,252.5	5,002	-	12,505	608.00	-	760.3	3,801.5	3,041.2	-	7,603.0	-	956.3	4,855.7	3,946.7	-	9,758.8	
Post-harvest Processing Building (Export)	m2	-	1,454.4	8,726.4	4,363.2	-	14,544	665.00	-	967.2	5,803.1	2,901.5	-	9,671.8	-	1,216.5	7,412.3	3,765.5	-	12,394.3	
Post-harvest Processing Building (Domestic)	m2	-	590.5	2,952.5	2,362	-	5,905	545.00	-	321.8	1,609.1	1,287.3	-	3,218.2	-	404.8	2,055.3	1,670.6	-	4,130.7	
Cold Storage	m2	-	1,801	9,005	7,204	-	18,010	800.00	-	1,440.8	7,204.0	5,763.2	-	14,408.0	-	1,812.3	9,201.8	7,479.2	-	18,493.2	
Customs and Containers Area	m2	-	27,092.5	21,674	5,418.5	-	54,185	53.00	-	1,435.9	1,148.7	287.2	-	2,871.8	-	1,806.1	1,467.3	372.7	-	3,646.1	
Administration	m2	-	864	4,320	3,456	-	8,640	300.00	-	259.2	1,296.0	1,036.8	-	2,592.0	-	326.0	1,655.4	1,345.5	-	3,326.9	
Subtotal										5,945.5	24,663.9	17,358.4	-	47,967.9	-	7,478.3	31,503.6	22,526.9	-	61,508.9	
C. Plant, Equipment and Vehicles																					
1. Processing Lines (Washing/Sorting)																					
	No	-	-	-	12	-	12	384,200.00	-	-	-	4,610.4	-	4,610.4	-	-	-	6,323.7	-	6,323.7	
2. Vehicles																					
Pallet Trucks (Electric)	No	-	-	-	26	-	26	9,477.00	-	-	-	246.4	-	246.4	-	-	-	338.0	-	338.0	
Forklift Trucks	No	-	-	-	4	-	4	34,200.00	-	-	-	136.8	-	136.8	-	-	-	187.6	-	187.6	
Cold Storage Forklift Trucks	No	-	-	-	8	-	8	43,115.00	-	-	-	344.9	-	344.9	-	-	-	473.1	-	473.1	
Wheelbarrows	No	-	-	-	332	-	332	383.00	-	-	-	127.2	-	127.2	-	-	-	174.4	-	174.4	
Subtotal										-	-	855.3	-	855.3	-	-	-	1,173.1	-	1,173.1	
3. Cleaning Equipment																					
Road Sweeper (Electric)	No	-	-	-	12	-	12	45,000.00	-	-	-	540.0	-	540.0	-	-	-	759.2	-	759.2	
Scrub Driver	No	-	-	-	12	-	12	9,500.00	-	-	-	114.0	-	114.0	-	-	-	160.3	-	160.3	
Skid Steer	No	-	-	-	11	-	11	40,000.00	-	-	-	440.0	-	440.0	-	-	-	618.6	-	618.6	
Refuse Bins (1,100 liter)	No	-	-	-	100	-	100	650.00	-	-	-	65.0	-	65.0	-	-	-	91.4	-	91.4	
Subtotal										-	-	1,159.0	-	1,159.0	-	-	-	1,629.4	-	1,629.4	
4. Security System																					
Vehicle Access Control	No	-	-	-	1	-	1	83,519.00	-	-	-	83.5	-	83.5	-	-	-	114.6	-	114.6	
Video Surveillance System	No	-	-	-	1	-	1	262,055.00	-	-	-	262.1	-	262.1	-	-	-	359.4	-	359.4	
Subtotal										-	-	345.6	-	345.6	-	-	-	474.0	-	474.0	
5. Administration Office Equipment																					
Computers	No	-	-	-	100	-	100	1,458.00	-	-	-	145.8	-	145.8	-	-	-	210.0	-	210.0	
Office Desks	No	-	-	-	100	-	100	100.00	-	-	-	10.0	-	10.0	-	-	-	14.4	-	14.4	
Desk Drawer Set	No	-	-	-	100	-	100	70.00	-	-	-	7.0	-	7.0	-	-	-	10.1	-	10.1	
Office Cabinet	No	-	-	-	100	-	100	130.00	-	-	-	13.0	-	13.0	-	-	-	18.7	-	18.7	
Chairs	No	-	-	-	200	-	200	110.00	-	-	-	22.0	-	22.0	-	-	-	31.7	-	31.7	
Subtotal										-	-	197.8	-	197.8	-	-	-	284.9	-	284.9	
Subtotal										-	-	7,168.1	-	7,168.1	-	-	-	9,885.1	-	9,885.1	
Total										-	15,551.8	32,688.8	26,922.8	-	75,163.4	-	19,855.9	42,003.8	35,597.7	-	97,457.5

Table 2. Samarkand ALC

Detailed Costs	Unit	Quantities					Unit Cost (US\$)	Base Cost (US\$ '000)					Totals Including Contingencies (US\$ '000)							
		2019	2020	2021	2022	2023		Total	2019	2020	2021	2022	2023	Total	2019	2020	2021	2022	2023	Total
I. Investment Costs																				
A. Groundwork and Infrastructure																				
ALC Entrance	m2	-	33.5	167.5	134	-	335	885.00	-	29.6	148.2	118.6	-	296.5	-	38.2	194.0	157.7	-	389.8
Land Levelling, Roads, Parking, etc	m2	-	121,692	97,353.6	24,338.4	-	243,384	130.00	-	15,820.0	12,656.0	3,164.0	-	31,639.9	-	20,383.9	16,559.9	4,206.2	-	41,150.0
Electricity Distribution Network	m2	-	-	-	1,000	-	1,000	690.00	-	-	-	690.0	-	690.0	-	-	-	917.3	-	917.3
Water Supply	m2	-	1,450	1,450	-	-	2,900	285.00	-	413.3	413.3	-	-	826.5	-	532.5	540.7	-	-	1,073.2
Waste Water Treatment Plant	m2	-	1,750	1,750	-	-	3,500	454.00	-	794.5	794.5	-	-	1,589.0	-	1,023.7	1,039.6	-	-	2,063.3
Solid Waste Management System	m2	-	131.5	1,183.5	-	-	1,315	230.00	-	30.2	272.2	-	-	302.5	-	39.0	356.2	-	-	395.1
Railway Line	m	-	1,500	375	-	-	1,875	207.00	-	310.5	77.6	-	-	388.1	-	400.1	101.6	-	-	501.6
Highway Access	m2	-	6,960	1,740	-	-	8,700	136.00	-	946.6	236.6	-	-	1,183.2	-	1,219.6	309.6	-	-	1,529.3
Subtotal										18,344.7	14,598.4	3,972.6		36,915.7		23,636.9	19,101.6	5,281.2		48,019.7
B. Buildings																				
Fruit and Vegetable Storage/Sale - Wholesalers	m2	-	1,781	8,905	7,124	-	17,810	573.00	-	1,020.5	5,102.6	4,082.1	-	10,205.1	-	1,283.6	6,517.6	5,297.5	-	13,098.7
Fruit and Vegetable Storage/Sale - Small Farmers	m2	-	1,781	8,905	7,124	-	17,810	573.00	-	1,020.5	5,102.6	4,082.1	-	10,205.1	-	1,283.6	6,517.6	5,297.5	-	13,098.7
Post-harvest Processing Building (Export)	m2	-	1,454.4	8,726.4	4,363.2	-	14,544	644.00	-	936.6	5,619.8	2,809.9	-	9,366.3	-	1,178.1	7,178.3	3,646.6	-	12,002.9
Post-harvest Processing Building (Domestic)	m2	-	590.5	2,952.5	2,362	-	5,905	500.00	-	295.3	1,476.3	1,181.0	-	2,952.5	-	371.4	1,885.6	1,532.6	-	3,789.6
Cold Storage	m2	-	1,801	9,005	7,204	-	18,010	762.00	-	1,372.4	6,861.8	5,489.4	-	13,723.6	-	1,726.2	8,764.7	7,123.9	-	17,614.8
Customs and Containers Area	m2	-	39,667.5	31,734	7,933.5	-	79,335	53.00	-	2,102.4	1,681.9	420.5	-	4,204.8	-	2,644.4	2,148.3	545.7	-	5,338.4
Administration	m2	-	864	4,320	3,456	-	8,640	300.00	-	259.2	1,296.0	1,036.8	-	2,592.0	-	326.0	1,655.4	1,345.5	-	3,326.9
Subtotal										7,006.8	27,140.9	19,101.7		53,249.5		8,813.3	34,667.4	24,789.3		68,270.0
C. Plant, Equipment and Vehicles																				
1. Processing Lines (Washing/Sorting)																				
	No	-	-	-	17	-	17	384,200.00	-	-	-	6,531.4	-	6,531.4	-	-	-	8,958.5	-	8,958.5
2. Vehicles																				
Pallet Trucks (Electric)	No	-	-	-	26	-	26	9,477.00	-	-	-	246.4	-	246.4	-	-	-	338.0	-	338.0
Forklift Trucks	No	-	-	-	4	-	4	34,200.00	-	-	-	136.8	-	136.8	-	-	-	187.6	-	187.6
Cold Storage Forklift Trucks	No	-	-	-	8	-	8	43,115.00	-	-	-	344.9	-	344.9	-	-	-	473.1	-	473.1
Wheelbarrows	No	-	-	-	332	-	332	383.00	-	-	-	127.2	-	127.2	-	-	-	174.4	-	174.4
Subtotal										-	-	855.3		855.3		-	-	1,173.1		1,173.1
3. Cleaning Equipment																				
Road Sweeper (Electric)	No	-	-	-	12	-	12	45,000.00	-	-	-	540.0	-	540.0	-	-	-	759.2	-	759.2
Scrub Driver	No	-	-	-	12	-	12	9,500.00	-	-	-	114.0	-	114.0	-	-	-	160.3	-	160.3
Skid Steer	No	-	-	-	11	-	11	40,000.00	-	-	-	440.0	-	440.0	-	-	-	618.6	-	618.6
Refuse Bins (1,100 liter)	No	-	-	-	100	-	100	650.00	-	-	-	65.0	-	65.0	-	-	-	91.4	-	91.4
Subtotal										-	-	1,159.0		1,159.0		-	-	1,629.4		1,629.4
4. Security System																				
Vehicle Access Control	No	-	-	-	1	-	1	83,519.00	-	-	-	83.5	-	83.5	-	-	-	114.6	-	114.6
Video Surveillance System	No	-	-	-	1	-	1	262,055.00	-	-	-	262.1	-	262.1	-	-	-	359.4	-	359.4
Subtotal										-	-	345.6		345.6		-	-	474.0		474.0
5. Administration Office Equipment																				
Computers	No	-	-	-	100	-	100	1,458.00	-	-	-	145.8	-	145.8	-	-	-	210.0	-	210.0
Office Desks	No	-	-	-	100	-	100	100.00	-	-	-	10.0	-	10.0	-	-	-	14.4	-	14.4
Desk Drawer Set	No	-	-	-	100	-	100	70.00	-	-	-	7.0	-	7.0	-	-	-	10.1	-	10.1
Office Cabinet	No	-	-	-	100	-	100	130.00	-	-	-	13.0	-	13.0	-	-	-	18.7	-	18.7
Chairs	No	-	-	-	200	-	200	110.00	-	-	-	22.0	-	22.0	-	-	-	31.7	-	31.7
Subtotal										-	-	197.8		197.8		-	-	284.9		284.9
Subtotal										-	-	9,089.1		9,089.1		-	-	12,519.9		12,519.9
Total										25,351.5	41,739.3	32,163.4		99,254.2		32,450.3	53,769.0	42,590.4		128,809.6