

- Sorting and search capabilities shall be implemented in all the languages supported by the system. The system shall enable users to enter the search text on the screen in any of the language selected.
- The system shall support both Amharic and Standard English Keyboards to enter English and Amharic text data.
- All technical system development documentations shall be in English language.

8.2. Dates and times

- The system shall support both Gregorian and Ethiopian Date and Time system but Ethiopian Date and Time shall be used as default. The Gregorian Date and Time shall be used for reporting in English Language.
- The system shall have date and time conversion tool from and to Gregorian and Ethiopian.
- AIIMS-CCF shall have embedded Amharic calendar which enables date and time picking during data entry in data and time fields.

8.3. Computing Hardware Specifications

- AIIMS-CCF shall be supported by commonly used hardware platforms. The consultant shall prepare specifications of required hardware platforms (servers, desktops, workstations computers, etc.) and all necessary peripheral equipments for use by AIIMS-CCF. Hardware specifications shall be delivered during the design phase providing enough time for procurement before AIIMS-CCF deployment.

8.4. Network and communications specifications

AIIMS-CCF shall be implemented using existing LAN at the EHAIA and regional bureaus, and WAN. Communication between the Federal Authority and Regional bureaus shall be made via Woreda-Net (government wide area network that links all Woreda to regional and federal centers). If appropriate network communication hardware is not in place, the consultant shall specify network tools, protocols and security measurement to be used for data transfer, communication, administration and management.

8.5. Software Specifications

- Network and communications software: AIIMS-CCF shall use standard secure socket for network data transfer which is protected by Advanced Encryption Standard (AES) 256-bit encryption.
- General-Purpose software, DBMS, statistical tools and Development Software tools: AIIMS-CCF shall be based on web-based Open Source and/or license free solutions.
- AIIMS-CCF shall be built based on technical specifications and technologies used to build NRLAIS. Specifically, it shall depend on Cadastre Maintenance Sub-

System of NRLAIS for agricultural investment land administration. AIIMS-CCF and NRLAIS must be compatible.

- The system shall support web-based client interface using the different versions of web browsers such as Microsoft internet explorer and Microsoft Edge, Mozilla Firefox, Chrome, etc.

9. Documentation/Reporting Requirements

The high level abstraction and coding shall be properly documented. User manuals, technical references including data dictionary shall be part of the complete AIIMS-CCF package. All the documentations shall be easy to use, well organized and searchable, consistent, contain decipherable lists of error codes, use proper and consistent terminology, useful names prior to first instance of abbreviations, be correct in spelling and grammar, cross-referenced, stated exactly as the system operates and does not omit any steps and conform exactly to the GUI behavior.

All the documents are subject to client approval. The client shall designate a team responsible for quality assurance testing of the system and all the deliverables submitted by the consultant.

9.1. Inception Report

The major content of the inception phase report shall be:

- Situation analysis of relevant federal and regional level stakeholders in the potential sector institutions (stakeholder mapping).
- Software design methodology.
- Project plan and project management strategy which includes software verification and validation, software configuration management, training and knowledge transfer, and testing plan.

The inception report shall also annex the following:

- List and addresses of contacted institutions, officials/professionals/resource personnel and commercial and contract farmers or any other persons.
- List of reviewed documents and data together with appropriate citations.
- Assignment related pictures.
- Other relevant documents, references, etc.

9.2. Progress Report

The consultant is required to submit monthly progress report at the end of each month which briefly describes the following:

- Accomplishments during the reporting period,
- Challenges encountered and corrective measures undertaken,
- Planned activities to be undertaken during the next month, and
- Other relevant issues.

9.3. Design Documentation

- Requirement Analysis Document (RAD)/System Requirement Specifications (SRS): describes in detail the results from the requirements analysis activities during the inception phase which shall be used as input to the system design to be carried out in the design phase.
- Business Process Reengineering report and system use cases: this document describes the changes required to the current business processes which are subject of a business process reengineering and the relationship of the system use case with the business processes.
- System Architecture Document (SAD)/Software Design Description (SDD): this document describes system architecture and design of all the system components to be developed.
- Technical documentation embedded in the source code.

9.4. End-User Documentation

- End user manuals shall include user reference and programmer's manuals. The manuals shall be web-based and shall be delivered as hypermedia documents and in hardcopy.
- Complete list of error messages along with detailed descriptions shall be provided as annex to the user manual or as a separate document.
- The system shall have embedded/online help system designed as part of the system interface which is context sensitive and have full text search tool.
- The user manuals and online help shall be provided in Afaan Oromoo, Amharic, English and Tigrigna.

9.5. Final Report

- The consultant shall prepare final completion report which shall cover system and support documentation and post pilot operational plan.

10. Knowledge Transfer and User Training

During the course of the software development process and implementation, staffs from the client side will be seconded to the consultant team members. The consultant shall plan own staff input and duration and seconded staff to work together at different stage of the system development so that client staffs gain knowledge and experience in the system development processes.

The consultant shall prepare and conduct at least four 7 days training programs for all users of the system from Federal and Regional institutions, but the final number of training required and duration will be decided during the inception phase. These users include staff from IT and Database management, senior management, land administration, public relations, monitoring and evaluation, data encoders, etc. These trainings shall be held at the locations of the primary software installation sites (Federal

Horticulture and Agricultural Investment Authority, and regional bureaus). The trainings shall be synchronized with the release of the user manuals to collect feedback from the trainee for the improvement of the manuals. However, the training manuals shall be prepared by the consultant separately as a training package to be supplied to the trainees. The schedule for the trainings shall be prepared by the consultant in consultation with the client.

11. User Roles, Security Requirement and Data Recovery

The system shall have hierarchies of access privileges with institution level defined security features. In terms of user roles, security and data recovery, the system shall have the following features:

- Users must gain access to the system through user login account and password as defined by their roles. Each user's access time and actions shall be recorded and maintained in the user log. User logs shall contain all attempted and committed transactions along with user, time, date, application reference, etc.
- To enforce business rules, roles must be integrated with workflow functions.
- The consultant shall identify all user groups and roles, and implement audit tools that enable administrators/managers to analyze usage.
- The system shall not leave any cookies on the user's computer containing the user's password.
- Data in the system must be secured at all levels from accidental or malicious changes.
- All external data communications either using physical storage media or over the network should be encrypted.
- The system shall have a disaster recovery mechanism without any loss of data in the event of power failure, machine failure, communication failure, and disk crash and database corruption.

12. Testing

The consultant shall develop detailed plan on how to execute all required system testing including system integration, regression, readiness, user acceptance and formal system acceptance testing. The plan shall include

- Description of consultant's overall approach and methodology to system testing including the types of tests performed and how each test type is conducted, documented and verified.
- The consultant should describe the sequencing of different types of tests (e.g., unit, integration, regression, etc.) and how test results are recorded and measured.
- Description of the processes, tools, environments, etc. used to conduct system load testing and the level of confidence that the proposed load testing will adequately simulate expected production environment usage both pre and post implementation.

- Description of how performance test results are reported to and verified by the client.
- Description of how user acceptance and final acceptance testing is conducted and documented including on how system functionality will be validated, tested and accepted.
- The consultant should describe the role of the client during each phase of testing and its expected level of participation.

The client shall form a technical working group for Testing and Quality Assurance who are responsible for all acceptances testing of deliverables.

13. General Administrative Requirements

The client shall have unlimited licenses on those parts o the software system developed under this assignment. The complete source codes developed and modified or used as is from open source sources shall be provided to the client during system handover. As deemed necessary, the consultant shall also provide source codes of completed modules during the course of the development of the system for the client's internal consumption or by the client's partners.

The consultant bears all the responsibilities and guards the license users against all evictions, actions or claims from third parties and in particular against those resulting from copyright infringements.

13.1. Warranty

The warranty becomes effective soon after the go-live of the system. The warranty must be for at least two years. Support during the warranty period must be free of any charge.

13.2. Support and Maintenance Service

During the warranty period, the consultant shall provide continuous maintenance support including bug fixes (crash, program hanging) through web-based help desk, remote desktop, on-site, on-call and error logging based on the level of problems encountered.

The consultant shall maintain and support the software system developed for at least 3 years after the completion of the warranty period. However, the client maintains the right to replace the supporting company.

The consultant shall propose detailed technical and user support and maintenance plan for the duration of the warranty period and for the 3 years maintenance period.

13.3. Composition of Project Team

The system development team shall have four key experts. The CV's of the key staff members shall be provided and are subject to approval. Change of key staff shall be made by formal client approval.

- i. Team Leader and System Architect: must have
 - Proven experience and qualified in managing enterprise level software development projects particularly related to land management in the public sector.
 - Experience in a variety of modern software development approaches to system analysis and design both at architecture and implementation levels and use of software development tools.
 - Experience in establishing and conducting configuration management activities for large software programs.
 - At least Masters Degree in Informatics, Software Engineering, Computer Science or closely related discipline.
 - At least 15 years of experience out of which 10 years experience in IT project management.
 - Excellent communication and leadership skills.
 - Strong facilitation and coaching skills.
 - Excellent command of written and spoken English.

- ii. Chief Software Developer: must have
 - Extensive experience in software development including GIS applications and qualified in system development methodologies.
 - Demonstrable experience on web-based Open Source application development using key web development programming languages.
 - Strong knowledge of software design tools and techniques
 - Proven experience in coding complex software and mobile application solutions, debugging, integrating different software modules, and testing.
 - Masters Degree or above in Informatics, Software Engineering, Computer Science or closely related discipline.
 - At least ten years of experience in the design and implementation of large software systems.
 - Experience in LADM.
 - Excellent command of written and spoken English.

- iii. Database Architect: must have
 - Extensive experience in database administration, database design and implementation of enterprise level spatial and non-spatial databases using Open Source Database Management Systems.
 - Excellent background in software system development methodology.
 - Masters Degree in Informatics, Software Engineering, Computer Science or closely related discipline.
 - At least seven years of experience in leading the design and implementation of enterprise level databases.

- Experience in LADM.
- Excellent command of written and spoken English.

iv. GIS Analyst: must have

- Extensive experience in coordinating the acquisition of spatial data and supervising the integration of these data into enterprise level spatial databases.
- Proven knowledge of the design and development of geo-information solutions for land administration and agricultural development.
- Experience in coordinating GIS activities with application developers.
- Experience in Rural Land Administration.
- Experience in cartographic design and high quality map production.
- Extensive experience in design and implementation of spatial databases using Open Sources DBMS.
- At least seven years of experience in leading the design and implementation of enterprise level Geospatial databases.
- Masters Degree in GIS, Remote Sensing, Surveying, Informatics, Natural Resources, Computer Science or closely related discipline.
- Experience in LADM.
- Excellent command of written and spoken English.

The consultant shall also have other staff members in the team such as Land Administration expert, Network and communication expert, Monitoring and Evaluation expert, Livestock expert, Plant Science expert, Translator, Web Developer, Software Testing Engineer, Statistician, etc as needed. Their CV's shall be communicated to the client. The client reserve the right to reject unqualified staff proposed as part of the team.

For international staff, all key staff members must reside in Ethiopia at least 80% of their input time.

14. Implementation and Payment Schedule

14.1. Implementation Schedule

The following implementation schedule provides the timeline for major tasks. Detailed activities under each task must be scheduled without affecting the completion date of major tasks.

Schedule of major tasks:

SN	Item Description	Delivery	Acceptance of Deliverables
1	Inception Phase - System development methodology and project plan - Detailed requirement analysis - Validation Workshop	W10	
1.1	Acceptance of Inception phase deliverables		W12
2	Design	W18	

	<ul style="list-style-type: none"> - System requirement specifications - System design document - Prototyping - Validation Workshop 		
2.1	Acceptance of design phase deliverables		W20
3	Implementation		
3.1	System build	W30	
3.2	Testing	W36	W40
3.3	Training	W40	
3.4	Deployments & Operational Acceptance Testing	W44	W46
4	Finalization Phase <ul style="list-style-type: none"> - All documentations and final report - Final Workshop 	W48	W50

14.2. Payment Schedule

SN	Items	% contract value
1.	Inception phase	10
2.	Design Phase	10
3.	System Implementation	
3.1	Regional Component (5 regions)	40
3.2	Federal Component	10
4.	System Operational Acceptance	20
5.	Final Report	10

15. Project Management and Accountability

In order to guide the assignment, the clients (EHAIA, ATA and GIZ-S2RAI) form Technical Working Group (TWG) consisting technical experts from these three institutions and other relevant organizations as deemed necessary. The consultant will closely work and periodically supervised by the TWG. The TWG will report to the steering committee (SC) which will be composed of three higher officials delegated from the three client organizations. The SC will be responsible for the overall oversight of the implementation of the system.

ANNEXES

Annex A: Glossary of Terms

Apiculture: Apiculture is Beekeeping. It is concerned with the practical management of the social species of honey bees, which live in large colonies of up to 100,000 individuals.

Clients: Clients of this assignment are the EHAIA, ATA and GIZ-S2RAI Project that are equally and mutually responsible for the overseeing of this assignment. They will be delegated by two hierarchies of power: the SC (managerially decisive) and the TWG (technically credible).

Commercial farming: farming as a business in which production of crops or farm animals or other forms of agricultural business are operating for sale with the sole intention of making a profit.

Contract farming: defined as a forward agreement based production model specifying the obligations of two parties, the producers (farmers) and the buyers (commercial farmers, processors, wholesalers/retailers, exporters, etc.) that form business partners. Legally, farming contracts entail the sellers' (farmers') obligation to supply the volumes and qualities as specified, and the buyers' (processors'/ traders') obligation to off-take the goods and realize payments as agreed.

Silviculture: It is the art and science of controlling the establishment, growth, composition, health, and quality of forests and woodlands to meet the diverse needs and values of landowners and society such as wildlife habitat, timber, water resources, restoration, and recreation on a sustainable basis.

Annex B: General Datasets required

To support different business process functions the following bio-physical and socio-economic datasets/information related to investment land and the surrounding environments are required to be captured and included in the system

- Agro-ecology
- Terrain
- Land use/land Cover of the surrounding area and detailed existing land use/land use plan of the investment land
- Drainage network
- Water bodies and wetlands
- Climatic data (rainfall, temperature, etc.)
- Soils
- Land suitability and capability classes for rainfed and irrigated agriculture
- Dominant/major crops
- Biodiversity hotspots
- Important Indigenous trees
- Settlement patterns
- Administrative boundary
- Demographics (population size, labor availability)
- Livelihoods and farming system
- Social infrastructures (schools, health post/clinics/health centers, water supply, roads, power supply lines and telecommunication services)
- Reserved areas and national parks
- Touristic attraction sites (religious areas, national and global heritage sites, etc.)
- Detailed geo-referenced site plan of investment land for agricultural economy zone
- High resolution satellite images and orthorectified aerial photograph
- Land set for agricultural investment – land bank which is linked to cadastre map
- Rural cadastral map

Note that some of these datasets like Administrative boundary, rural cadastral map, orthophoto, etc. are part of the NRLAIS

Annex C: Preliminary list of attribute datasets

SN	Items	Attributes
1	Land for Agricultural Investment	<p>Parcel ID/ Block ID/Farm ID</p> <p>Location</p> <ul style="list-style-type: none"> - Region - Zone if the land fall fully in the zone - Woreda if the land fully falls within the same Woreds - Kebele if the land doesn't cover multiple kebeles - Geographic coordinates of the center of the land <ul style="list-style-type: none"> o Latitude o Longitude <p>Average elevation above mean sea level</p> <p>Area in hectares</p> <p>Average annual rainfall</p> <p>Moisture sources</p> <ul style="list-style-type: none"> - Rainfed - Irrigation (river, lake, ground water) <p>List of suitable crops. The following are strategic crops identified in crop categories</p> <ul style="list-style-type: none"> - Cereal crops: maize, sorghum, barley (food and malt), Wheat (durum and bread), rice, teff, oats, etc - Pulse crops: soya bean, haricot bean, chick pea, faba beans, field pea, lentil, etc. - Oil crops: sesame, cotton seed, etc. - Fiber crops: cotton, sisal, etc. - Coffee, tea and spices - Vegetables - Fruits - Floriculture - Sugarcane - others <p>Livestock functions:</p> <ul style="list-style-type: none"> - Dairy - Fattening - Poultry - Apiculture (beekeeping) - others <p>Forestry functions:</p> <ul style="list-style-type: none"> - Timber production - Bamboo - Gum and resins/incense - others <p>Land use</p> <p>Status of infrastructure and services</p> <ul style="list-style-type: none"> - Road - Telephone

		<ul style="list-style-type: none"> - Electricity - Bank - Insurance - Water Supply
		Accessibility <ul style="list-style-type: none"> - Air - Road - Rail - Water
		Socio-economic study
		Mean monthly/annual temperature
		Soil type
		General topography (slope)
		Lease amount per hectare
		Distance from point of center (region capital and Addis Ababa)
		Agreo-ecology
2	Meetings related to investment land identification and verification	List of stakeholders involved in the process
		No of Meetings made
		Date of meetings
		Consensus and decisions made
3	Bid announcement	Type of media used for announcement <ul style="list-style-type: none"> - News paper, radio, TV, Website
		Date: <ul style="list-style-type: none"> - Announcement date - Closing date
		Bidding requirements <ul style="list-style-type: none"> - Complete list need to be developed [...]
		Bidders guideline document
4	Investor selection criteria	Detailed list should be developed <ul style="list-style-type: none"> - Application letter - General information about the investor (name, nationality, address and legal representative if any, etc.) - Amount of capital - Expected number of employment opportunity (permanent, casual) - Marketing plan (Domestic and Foreign) - Investment profile of investor - Letter of interest to pay initial lease payment - Bank statement - Confirmation letter to conduct and submit EIA before implementation started
5	Investor and lease agreement	Name
		Nationality <ul style="list-style-type: none"> - (foreign, national, Diaspora, dual-citizen)
		Sex if individual

		Contact address: <ul style="list-style-type: none"> - P. O. Box, City, Country - Email - Land line telephone - Cell phone
		Initial Capital
		Investment license number
		GOV body who transferred land to investor (Federal, Regional)
		Agreement date
		Land lease Number
		Date of land transfer
		Lease duration
		Area of land (from #1)
		Amount of lease (from #1)
		Market (local, foreign)
		Development start date
		Development completion date
6	Land development (as per the development plan)	Preparation for development <ul style="list-style-type: none"> - In terms of land preparation - Office construction - Workers residential house construction - Infrastructure development
		Land development progress <ul style="list-style-type: none"> - Area of land cleared - Area of land prepared for seeding
		List of strategic crops permitted
		Developed land <ul style="list-style-type: none"> - Area under each crop type
		Production by crop type in quintals
		Productivity of each crop
7	Developed land as per business plan	Area of land transferred
		Area of land planned to be developed
		Time allowed to fully complete development (10, 5, 3, or 2 Years)
		Area of land to be developed annually
		Area of land cleared
		Land area prepared for seeding
		Land area under crop and percentage of land developed so far <ul style="list-style-type: none"> - Rainfed - Irrigated
		Land area under each strategic crop
		Production by crop type during the year under consideration
		Productivity by crop type <ul style="list-style-type: none"> - Rainfed - Irrigated
		Productivity as compared to national average

		<ul style="list-style-type: none"> - High - Medium - Low
8	Agricultural machineries in use and others	Tractor (needs verification if details about the tractor type in use be required including the horse power)
		Type of plows
		Harrows
		Planters
		Harvestors
		Chemical sprayers <ul style="list-style-type: none"> - Manual - Motorized - Tractor mounted
		Transport service vehicles
		Trucks
		Tractor tailors
		Generators
		Water pumps
Others		
9	Camp infrastructure and supplies	Creating good living environment for workers <ul style="list-style-type: none"> - Workers residential houses - Water supply - Medical facilities - Toilettes and Bath rooms - Kitchen facilities - Dining hall - Refreshment and entertainment facilities - Consumable items supply - Food supply - Safety outfits supplies
		Creating good working environment for workers <ul style="list-style-type: none"> - Office buildings - Machinery shed - Store for <ul style="list-style-type: none"> o Produce o Chemicals o Fertilizers
10	Employment	Professionals <ul style="list-style-type: none"> - General manager - Deputy manager - Agronomist - Pathologist - Resources manager - Production manager - Tractor operator - Mechanic - Assistant mechanic - Accountants

		<ul style="list-style-type: none"> - Nurse - Irrigation Engineer - Administrative assistant - others
		Number of employees by <ul style="list-style-type: none"> - Sex - Educational level - Nationality if foreign employees are involved - Permanent - Casual - Payment rate
11	Environmental protection and natural resources management	Forest management <ul style="list-style-type: none"> - Indigenous tree protection if a requirement
		Tree nursery development if a requirement
		Soil and water conservation <ul style="list-style-type: none"> - Bio-physical conservation (???) - Terracing if required - Rehabilitation of identified degraded land - Proper farming practices like contour plowing if required
		Wild life protection if investment land is near parks or areas of wild life habitat
12	Technology use	Improved varieties/seeds by <ul style="list-style-type: none"> - Crop type - Quantity - Source of supply - What else
		Chemical <ul style="list-style-type: none"> - Herbicides <ul style="list-style-type: none"> o Type o Quantity o Source of supply - Pesticide <ul style="list-style-type: none"> o Type o Quantity o Source of supply - Fungicide <ul style="list-style-type: none"> o Type o Quantity o Source of supply - Fertilizer <ul style="list-style-type: none"> o Type (DAP, Urea, NPS) o Quantity o Source of supply
13	Farm management and Information handling	Crop calendar
		Frequency of plowing before sowing
		Sowing method <ul style="list-style-type: none"> - Row planting - Broadcasting

		Crop rotation
		Fertilizer quantity and application method
		Water management <ul style="list-style-type: none"> - Water harvesting (???) - Irrigation methods <ul style="list-style-type: none"> o Drip o Sprinkler o Gravity
		Improvements after provision of support like awareness raising programs, training, technical support, etc. <ul style="list-style-type: none"> - Weed control - Pest control - Crop disease control - Post harvest improvement
		Annual production and productivity plan and accomplishments records
		Annual chemicals use by type, quantity and quality
		Safety rules and precautions on the use of chemicals to avoid impact on the surrounding environment
		Existence of trained staff on the use of chemicals
		Details on the type of safety materials used during chemical application and storage
		Employee contract document
		Internal rules and regulations document
		EIA and business plan document
		Record of annual crop infestations and spread of diseases and measures taken
14	Investment support	Duty free privileges <ul style="list-style-type: none"> - If provided, list the type of privileges - If machineries and vehicles <ul style="list-style-type: none"> o Status of use for the intended purpose (project use) o Out of order o Used for unintended purpose o Reason if unused so far
		Investment incentives provided <ul style="list-style-type: none"> - Lit if provided
		Technical support at field level <ul style="list-style-type: none"> - If provided, list all
		Area of land transferred for expansion
		Grace period
		Competence assurance support
		Work permit renewal
		Administrative support
		Training support <ul style="list-style-type: none"> - Pre- and post harvest crop management - Natural resources and environmental management - Farm management

		- Awareness raising support (???)
15	Supports provided (Increase customer satisfaction)	Kind of supports provided <ul style="list-style-type: none"> - Consultation - Competency licensing - Loan - Duty free - Renewal of license - Administrative support (infrastructure) - others Investor who got support Customer satisfaction <ul style="list-style-type: none"> - High (> 90%) - Medium (75-90%) - Low (<75%)
16	Development manual and profile for each crop	For each strategic crop type (11 see above)
17	Training provided for crop development	Type of training Trainer Date and duration of the training Participants (investors/professionals) Trainee satisfaction <ul style="list-style-type: none"> - High (> 90%) - Medium (75-90%) - Low (<75%)
18	Transferred and developed land, production and productivity	Number of investors (under Federal and Regional) Transferred land (under federal and regional) Total land developed under <ul style="list-style-type: none"> - Rainfed - Irrigation Annual production and productivity by crop type in each region
19	Records of best practices	By crop type By region By investor List of major activities Date of best practice records
20	Best practices communicated to users	Communicated best practices <ul style="list-style-type: none"> - By crop type - By region - Date List of investors List of investors who used the best practices Customer satisfaction
21	Public awareness conducted	Region Date List of agenda items

		List of participants
		Consensus points
		Activities performed
		Participants satisfaction <ul style="list-style-type: none"> - High (> 90%) - Medium (75-90%) - Low (<75%)
22	Public consultation conducted (??)	Region
		Date
		List of agenda items
		List of participants
		Consensus points
		Activities performed
		Participants satisfaction <ul style="list-style-type: none"> - High (> 90%) - Medium (75-90%) - Low (<75%)
23	Investor association	Name
		Establishment date
		List of members
		Region
24	Investors involved in contract farming (nucleus farming)	Name
		Location <ul style="list-style-type: none"> - Region - Zone - Woreda - Kebele
		Farmers/associations entered into agreement with investors
		Type of investment
		Major activities the investor do with the farmers/associations
		Challenges and solutions if any
25	Land use monitoring and support	Activities carried out related to land use monitoring and evaluation <ul style="list-style-type: none"> - Region, zone, Woreda, Kebele - Number of farms visited - Parties involved in the monitoring and evaluation - Date and duration of monitoring and evaluation
		Investors failed to start implementing project as per business plan <ul style="list-style-type: none"> - Transferred by federal/region - Name of investor - Area of land transferred - Date of land transferred - Area of land developed - Nationality - Date visited - Reasons for failure of development

		<p>Investors who implemented the project according to business plans</p> <ul style="list-style-type: none"> - Transferred by federal/region - Name of investor - Area of land transferred - Date of land transferred - Area of land developed - Nationality - Date visited
		<p>Investors who stopped project implementation</p> <ul style="list-style-type: none"> - Transferred by federal/region - Name of investor - Area of land transferred - Date of land transferred - Area of land developed - Nationality - Date visited - Reasons for stopping development
		<p>Measures taken</p> <ul style="list-style-type: none"> - Transferred by federal/region - Name of investor - Area of land transferred - Date of land transferred - Area of land developed - Nationality - Date of investment land visited - Action taken - Measures <ul style="list-style-type: none"> o First warning o Last warning o Reduction of leased land o Termination - Date measure taken - Reasons why measures taken - Actions taken after termination
		<p>Model Investors selected</p> <ul style="list-style-type: none"> - Transferred by federal/region - Name of investor - Area of land transferred - Date of land transferred - Area of land developed - Nationality - Date visited
26	Problems	<p>Good governance issue</p> <hr/> <p>Infrastructure</p> <hr/> <p>social</p> <hr/> <p>Boundary dispute</p> <hr/> <p>administrative</p> <hr/> <p>Natural</p>

		Others
		Stakeholders who are responsible to address the problem(s) <ul style="list-style-type: none"> - Federal - Region - Woreda
		Measures taken to solve problems
		Changes
27	Investor award	Land transferred by region/federal
		Name
		Nationality
		Area of land transferred
		Type of crops investor licensed to grow
		Land area developed
		Accomplishment in terms of <ul style="list-style-type: none"> - Production - Productivity - Technology use - Environmental protection - Employment opportunity - [...]
		Product quality
		Rank as per the evaluation criteria
		Registered capital
		Relationships with the surrounding community
28	Contract Farming	Contract ID
		Farm location <ul style="list-style-type: none"> - Region - Woreda - Kebele
		Area in Ha
		Type of product
		Quantity of product
		Quality parameters as defined in the contract document
		Payment <ul style="list-style-type: none"> - Price - Method - Place and - Time of payment
		Date of contract agreement
		Duration of the contract
		Amount of produce supplied <ul style="list-style-type: none"> - Per week - Per month - Etc.
		Input supply type
		Input supply modality <ul style="list-style-type: none"> - Credit - transport expense,

		- Etc.
		Amount of input credited
		Amount of credit for output market
		Monetary value of the contract
		Agreed support strategy
		- By contracting parties
		- Supporting institutions
		Constraints and challenges
		- Side selling and poaching
		- Poor quality product
		- Market instability
		- Natural disaster
		- Product collection
		- Infrastructures like road access
		- Risk sharing
		Solutions under taken