

Land Acquisition and Resettlement Plan

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Georgia: Climate Smart Irrigation Sector Development Program

Kvemo Samgori Left Main Canal Scheme (Area 1)

Main Report

Georgia: Climate Smart Irrigation Sector Development Project Modernization of Kvemo Samgori Left Canal Irrigation Scheme (Output 2)

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ABBREVIATIONS

ADB	Asian Development Bank
AHHs	Affected households
APs	Affected persons
DMS	Detailed measurement survey
GoG	Government of Georgia
GA	Georgian Amelioration
GRC	Grievance Redress Committee
GRG	Grievance Redress Group
IA	Implementing agency
PIC	Project Implementation Consultant
PIU	Project Implementation Unit
PM	Person-month
IP	Indigenous People
IVS	International Valuation Standards
LAR	Land acquisition and resettlement
LARF	Land acquisition and resettlement framework
LARP	Land acquisition and resettlement plan
MEPA	Ministry of Environmental Protection and Agriculture
NAPR	National Agency of Public Register
NGO	Nongovernment organization
ROW	Right of way
SES	Socio-economic survey
SPS	Safeguards Policy Statement
TRTA	Transactions technical assistance
SSMR	Semi-annual safeguards monitoring reports

GLOSSARY

Affected Households	A household consists of one or more people who live in the same dwelling and share meals or living accommodation and may consist of a single or more families. The affected households (AHHs) in this document are applied to the owners and users of lands and other assets that will experience full or partial, permanent, or temporary physical or economic displacement due to the project; compensations and as relevant assistance allowances are calculated for him/her representing the household. All members of an AHHs are referred as APs.
Affected Persons	In this document, the affected persons (APs) are the members of the AHHs. Also referred as displaced persons (DPs) in ADB SPS (2009).
Cut-off-Date	The date after that anyone who will influx to the area, and/or build/alter structures, will not be eligible for compensation. For this project, the IA plans to announce the cut-off date as the last day of the detailed measurement survey which will be conducted based on the final detail engineering design to be prepared in the project implementation. The validity of the cut-off-date in ADB projects typically is 3 years.
Detailed Measurement Survey	With the aid of the approved final DED, this activity involves the finalization and/or validation of the results of the inventory of losses (IOL), the severity of impact, and final list of AHHs during the final LARP preparation. The final resettlement cost will be calculated following the completion of the DMS.
Economic Displacement	Loss of land, assets, access to assets, income sources, or means of livelihoods because of (i) involuntary acquisition of land or other economic assets and livelihoods/income sources, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas.
Entitlements	Range of measures comprising compensations at replacement cost principle, income rehabilitation assistance, transfer assistance, income substitution, and relocation costs which are due to AHHs to compensate and mitigate the impacts, restore, and improve their social and economic living standards. It depends on the type of losses and the degree of impacts and specified in the entitlement matrix.
Inventory of Losses (IOL)	The process of all fixed assets (i.e., lands used for residence, commerce, agriculture, including ponds; dwelling units; stalls and shops; secondary structures, such as fences, tombs, wells; trees with commercial value; etc.) and sources of income and livelihood inside the project right-of-way (ROW), to identified and measured, their owners identified, their exact location pinpointed, and their replacement costs calculated. Additionally, the severity of impact to the affected assets and the severity of impact on the livelihood and productive assets of AHHs will be determined.
Physical Displacement	Physical relocation, loss of residential land, or loss of shelter because of (i) involuntary acquisition of land and/or other properties, or (ii) involuntary restrictions on land use or access to legally designated parks and protected areas.
Rehabilitation assistance	Additional support provided to AHHs losing productive assets, incomes, employment, or sources of living, to supplement payment of compensation for acquired assets to restore the living standards and quality of life of APs to at least the pre-project level.
Replacement cost	Value enough to replace the affected assets and cover other relevant uncured/or incurring costs such as transaction and registration costs for the replaced lands as compensation, and without deducting depreciation for such assets as well as cost of salvage materials, any taxes and transportation costs.
Severely Affected	This refers to affected households who will permanently lose 10% or more of their total productive land and/or assets, and/or will be physically relocated.
Vulnerable households	Low-income households, female-headed households, the elderly headed household, households headed by physically disabled persons, landless or non-titleholder affected households. These households are at risk of being disproportionately affected by the project due to their vulnerable status.

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EXECUTIVE SUMMARY

1. **Introduction.** This draft Land Acquisition and Resettlement Plan (LARP) is prepared for works under the proposed Climate Smart Irrigation Sector Development Program (Program) that Asian Development Bank (ADB) considers to finance in Georgia. The Program will support policy reforms and develop institutional capacity in water resources management and delivery of climate-smart irrigation services. The program is aligned with the following impact: agriculture production and food security improved (Irrigation Strategy). The outcome will be sustainable, productive, and resilient agriculture system in eastern Georgia strengthened. The program's outputs are: (i) Output 1: Institutional, governance, management, and financial management enhanced. Policy reforms are required to create an enabling environment for outputs 2 and 3; (ii) Output 2: Irrigation schemes modernized; and (iii) Output 3: Innovative agriculture production systems demonstrated. Outputs 1 and 3 have no physical works to cause land acquisition and resettlement (LAR) impacts. The Policy Matrix for Out 1 includes involuntary resettlement safeguard measures. Output 2 that will support modernization of the dilapidated, under-utilized Kvemo Samgori left canal irrigation scheme in Kakheti region in eastern Georgia, is expected to have LAR impact. The Executive Agencies (EAs) are the Ministry of Finance for Policy component (Output 1) and the Ministry of Environment Protection and Agriculture (MEPA) for Investment component (Output 2 and 3). The existing project implementation unit (PIU) under the MEPA is the implementing agency for outputs 2 and 3.

2. **Project modernization works and phases.** The modernization of the irrigation scheme is planned in two phases. Phase 1 includes modernization of irrigation distribution networks defined as Areas 1-4, and Phase 2 includes modernization works in Areas 5 and 6 (Figure 1, main text). At this stage, there is conceptual design available for the part of the Main Canal associated with the Area 1 (G-23 to G-33), and Area 1 distribution network. The Project Implementation consultant (PIC) will prepare the detailed engineering design (DED).

3. **Scope of this LARP.** This LARP is prepared for the planned modernization works in the distribution network in Area 1. It shall be updated upon the project approval based on the final detailed engineering design (DED). A separate LARP is prepared for the works in the part of the Main Canal section associated with the Area 1. A Land Acquisition and Resettlement Framework (LARF) is prepared to address possible resettlement impacts of the whole Program. Based on this LARF, LARP(s) shall be prepared and implemented for all sections, and any works with LAR impacts that will be planned based on the final detail engineering design (DED) under the Program. The following sections of this LARP will deal only with the LAR impacts associated with the Area 1, unless otherwise specified.

4. **Project physical works in Area 1.** The key construction works cause land acquisition and resettlement (LAR) impacts in distributary network areas (Areas 1 to 6), are digging trenches and burying pipes underground approximately on 1-1.5 m depth mainly in the alignment of the existing secondary and tertiary channels.¹ The diameters of the pipelines for the buried main pipelines will be in the order of outer diameter from 100-600 mm (in most parts of the network the GA has existing access roads), and within the distributary network for secondary and tertiary canals will be in the order of outer diameter from 80 to 200 mm (Figure 2 in main text of this LARP shows the distributary networks pipes in example of Area 1). Details of types of works are described in Section II of this LARP.

5. **Right of way (ROW) and access roads.** Regarding the buried pipelines in the distribution areas (secondary and tertiary canals), there are no regulations about the ROW. In

¹ The approach to modernization of the selected areas is based on (i) modernization through a network of closed pipes rather than rehabilitation/reconstruction of existing infrastructure and facilities, and (ii) providing an improved level of service by allowing farmers to connect directly to the piped network.

consultation with the with PIU and TRTA engineers (details in Annex 1), the pipelines ROW for LAR impact assessment, within the distribution areas, are defined 4 and 2 meters width corridor for the main pipeline up to 500-700 mm outer diameter and for the secondary and tertiary canals up to 110 to 315 mm outer diameter respectively,² and in the same areas will be also established permanent servitudes for operation and maintenance of the system. Access roads exist inside the distribution network and the main canal, as per original design and construction since the Soviet time. Some areas have been partially privatized and included in this LARP impact assessment wherever is the case (site visit photos in Annex 2).

6. **LAR impact.** There will be affected totally 1227 land plots (1106 private and 121 state lands) making a total 141,414.52 sqm of lands affected, of which 105,618.45 sqm private and 35,795 sqm are state lands. The impact to this 105,618.45 sqm private land will be temporary during the physical works and plus permanent servitude (for system's operations and maintenance) on the same land within the ROW. All impacted lands are agricultural. The affected 105,618.45 sqm lands will be under permanent servitude impact and they will not be acquired by the project and AHHs can continue owning and using it. However, the servitude will impose land use restrictions including prohibition of placing buildings or other structures, and planting trees on top of the pipeline's alignment within the ROW corridor. Lands can be used for growing annual crops and perennial crops which do not grow higher than 4 m with deep root system. Also, no structures/tall trees (above 4m) will be allowed over the impacted area (pipe RoW). These land use restrictions by servitude will limit the potential best use of the affected land plots. As a result, the pre-project market value of the land parcels will be diminished after the impact compared to the pre-project value, and shall be compensated for the restrictions imposed by servitude and diminished value of lands. PIU shall negotiate and sign servitude agreement with the land owners following the legislation, in particular the Civil Code (26 June 1997, as amended in 2022). Only if efforts to negotiate the mutually acceptable agreement fail, PIU may request the Court of Georgia to decide on servitude.

7. Of total 1106 private land plots, 19 plots will be impacted over 10% (temporary during construction and plus permanent servitude for the systems operations and maintenance at operation phase). Land plots with impact below and above 10% are presented in Annex 3.

8. Crops (barley, corn, sunflower, watermelon and wheat) in area of 12,691 sqm land will be affected. Totally 16,805 grape trees will be affected on 30,004.35 sqm land.

9. No major structures but 4,800 poles and 71,952 meter wires supporting grape trees (site photos 4 and 5 in Annex 2) and 14 fences will be affected. No business, workers and any other structures are affected neither permanently or temporary. No squatters are identified. There are identified 19 severely affected households, and 4 vulnerable AHHs are identified. In total 1,095 AHHs (1071 AHHs – private landowners + 24 LCC, where 1 LCC is counted as 1 AHHs conditionally) have been identified and estimated 4,695 affected persons (APs - with family members of AHHs). Table 3.7 in the main body of this LARP presents the summary of all impacts.

10. No physical displacement and no major impacts are expected on residential or commercial lands and buildings or businesses (if any). The Project is assessed as Category B for Involuntary Resettlement Safeguards, since the project does not involve physical displacement and and/or impacting 10% or more of the APs land or productive asset exceeding 200 APs. The project is Category C for Indigenous People Safeguards following

² While, as stated in para 5 above, the diameters of the pipelines for the project's modernization works in Area 1 for the main pipelines is planned to be 100-600 mm outer and for the distribution area secondary and tertiary canals 80 to 200 mm outer diameter.

ADB Safeguards Policy Statement (SPS 2009). No Indigenous People or any such ethnic minority group as defined by SPS live in the project area.³

11. **Socio-economic information.** For the SES, 269 AHHs (20% of sample of 1071 AHHs) from 4 villages of the project have participated. About 49% surveyed AHHs' head (133) are over 60 years old, 23% (63) are in age range of 51-60, and 21 % (56) AHHs head in age range of 36-50. Of total 733 APs, 34% are over 60 years old, followed by the 23% in range of 36-50 years old. By gender, of total surveyed 269 AHHs, men are heads in 82.5 AHHs, and women in 17,5%, indicating to more men are owning lands than women. Out of total 733 APs, 54.6% (400) are men and 45.6% (333) are female. By ethnicity groups, most the AHH and APs are Georgian (82.5%) while 17.5% are reported being Azerbaijanians.

12. Majority of the heads of AHHs reported married (64%) and 25% single, 8% widow and 3% divorced. About APs, of total 400 APs covered in this question, 52% (208) men reported being married, while 39.7% (159) are reported single. Among females, of total covered 333 APs, 56.5 females reported being married while 27.6% reported being single. On education, majority head of AHHs (72.5% or 195) have secondary education, while 23.8% or 64) have high education. The APs also majority have secondary education (62.2% or 456) while 23.5% (172) have high education.

13. As self-reported, majority AHHs income are from agriculture 56.6% (269), followed by pension. For APs, 36.6% (269) reported income from agriculture and 24.1% (177) from pension. About 50% (134) of AHHs reported having monthly income in range of 800 to 1500 GEL, 30% (81) have income above 1,500 GEL, and 20% (54) have income from 300 to 800 GEL. The AHHs have self-reported their monthly expenses amounts and patterns as GEL for food-347, clothes 140, transport 202, utility services 97 GEL.

14. On movable properties, all surveyed 269 AHHs 100% have TV, refrigerators, cars and mobile phones, 98.5% have washing machines. 52.8% have internet and 54% have computers. All surveyed 269 AHHs reported having landholdings, mostly agricultural , while 6 have also pastures. All AHHs have and live in their own houses - 98% (264) and own apartments 2% (5). No AHHs reported being living in rented or someone else houses. All AHHs reported having live-stock such as cows, sheep, goats chicken and so on. About 54% (145) of AHHs reported have loans for agricultural purposes while 45% (124) reported having no loans.

15. All surveyed 269 AHHs have reported having access to electricity, gas and also use woods for energy. AHHs reported to having good connectivity to roads and have local polyclinics nearby. They reported have schools locally in communities and hospitals located about 18 km away. All surveyed 260 AHHs reported positive and very positive perceptions and expectation from the project.

16. **Policy and regulation framework.** Principles of ADB SPS and laws of Georgia constitute this LARP. Number of laws and by-laws in Georgia regulate the LAR process (e.g. Constitution, Civil Code and Land Code), which overall provide key principles of (i) state eminent domain to take lands for public needs; (ii) avoiding, minimizing, and mitigating

³ On involuntary resettlement, the project impact is deemed significant if 200 or more persons experience major impacts, which are defined as (i) being physically displaced from housing, or (ii) losing 10% or more of their productive (income generating) assets. ADB Operations Manual: Safeguard Policy Statement (F1): OM Section F1/OP Issued on 1 October 2013. A proposed project is classified as category B if it includes involuntary resettlement impacts that are not deemed significant. A resettlement plan, including assessment of social impacts, is required. Project is assessed as Category C for Indigenous People Safeguards following ADB Safeguards Policy Statement (SPS 2009). No indigenous people or any ethnic minority groups live in the project area and ADB SPS requirements on indigenous people safeguards are not triggered, and no actions will be required. ADB Operations Manual: Safeguard Policy Statement (F1): OM Section F1/OP Issued on 1 October 2013.

unavoidable LAR impact, and for legal and legalizable affected persons, providing compensation of property and income losses at full market value and before physical or economic displacement, (iii) expropriation only by decision of the court that entered into legal force and after payment of due compensations.

17. ADB SPS's key objective on involuntary resettlement safeguards, is to avoid involuntary resettlement wherever possible; to minimize involuntary resettlement by exploring project and design alternatives; to enhance, or at least restore, the livelihoods of all displaced persons in real terms relative to pre-project levels; and to improve the standards of living of the displaced poor and other vulnerable groups. The SPS requirement on involuntary resettlement safeguard requirements is triggered in case of physical displacement (relocation, loss of residential land, or loss of shelter) and economic displacement (loss of land, assets, access to assets, income sources, or means of livelihoods) as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas. It covers them whether such losses and involuntary restrictions are full or partial, permanent or temporary.

18. Overall the requirements of laws of Georgia and of ADB's SPS on involuntary resettlement safeguards match except of a few gaps. Under the laws of Georgia the AHHs with formal and/or legalizable rights are entitled for full compensation for loss of lands, assets and income, but not AHHs without such legal rights. While ADB's SPS requires the AHHs without formal/legalizable rights to land and assets they possess, shall be compensated at full replacement cost at least for loss of all non-land assets. Also, SPS requires provision of assistance allowances vulnerable and severely AHHs, and relocation assistance to physically displaced AHHs, which are not provided in laws of Georgia.

19. The gaps between the requirements of SPS and national laws have been reconciled in previous ADB-assisted projects in Georgia and those reconciliation measures will be applied under this Program too as provided in this LARP's (Table 1, main body). All AHHs will be eligible for compensations and assistance allowances depending on types of losses and legal status of the lands and assets they have been using and their vulnerability status, according to the Entitlement Matrix (Table 5.2 in the main text). Lack of legal/legalizable rights to lands and assets do not ban the AHHs from receiving compensations at least for all losses other than land and when relevant additional assistance allowances. AHHs without legal/legalizable rights to land or any recognizable legal rights to land are eligible for resettlement assistance and compensation for losses of all non-land assets and incomes. Compensations for all types of losses envisaged in this draft LARP include full replacement cost, and amount to be identified by an independent valuation entity and specified in the LARP. AHHs' eligibility for compensations and assistance will be limited by a cut-off date. The cut-off date set as 7 September 2022 and announced during public consultations held in 5-6 September 2022 in the project area, which was conducted following completion of the Detail Measurement Survey (DMS), inventory of losses, and census of AHHs in June to September 2022. Any persons that will be affected due to final DED, will be included in the updated LARP.

20. **Institutional arrangement and capacity building.** The existing Project Implementation Unit (PIU) in MEPA will be the PIU for the project with dedicated staff for ADB financed project. PIU currently has one safeguards specialist covering both environment and social/resettlement safeguards tasks. The PIU will employ national resettlement safeguards specialist (60 person-months over the project duration) to be financed by the project to supervise social and resettlement tasks of the project. The PIU will be overall responsible endorsing and implementing the LARP as approved by ADB, and monitoring and reporting to ADB on project's LAR compliance. A team of international and national project implementation consultants (PIC) will be financed from the ADB project loan to support the PIU to manage the project and implement project activities in relation to Output 2 and 3 including on social and resettlement safeguards tasks. The PIC will (i) finalize the DED and any changes thereto for

the Area 1 proposed by the contractor and (ii) assist the PIU to update the LARP accordingly, and (iii) provide overall assistance to PIU on LARP implementation, and (iv) conduct LAR training as per ADB SPS' requirements for staff of PIU, GA, contractors and authorities to ensure efficient LARP implementation.⁴

21. ADB will guide the PIU in LARP implementation, approves the PIU's endorsed LARP, semi-annual safeguards monitoring reports (SSMRs), and have project review missions to the project sites to ascertain the status of the LARP implementation and safeguards compliance. ADB will issue clearance for start of construction works upon ADB's approval of LARP compliance completion report to be submitted by PIU. If safeguards related non-compliances cases will be identified, ADB will guide the PIU in taking corrective actions as per the approved LARP and safeguard covenants provided in the program financing agreement and ADB's SPS.

22. **Project-level Grievance Redress Mechanism (GRM).** PIU will set up a project-level GRM following the ADB's SPS and laws of Georgia. The GRM shall resolve grievances of any affected persons related to the project implementation, project's involuntary resettlement and environmental impacts, and consultations and information disclosure process. PIU has overall responsibility for the GRM during the project duration and evaluation, and resolve grievances in efficient and mutual consensus manner. PIU will involve relevant agencies and independent experts as needed by each case. The project's Resettlement Specialist contracted by PIC under the PIU's will serve as the GRM focal person. A two-tiers GRM is proposed: (i) 1st Tier – Grievance Redress Group (GRG) to be set up at the local project level including the local project team (representatives of contractor and construction supervision consultant) and representatives of municipality, APs, the GA and PIU; and (ii) 2nd Tier will be a Grievance Redress Commission (GRC) set at PIU's central level including the head of PIU, representatives of APs, relevant agencies, PIC, and relevant experts as case needed to be engaged, to resolve the grievances that cannot be resolved at the 1st Tier or the complainant is not satisfied with the decision.

23. If the GRM cannot resolve the grievance or the complaining party is not satisfied with the decision, it shall be resolved as per law or court order of Georgia, which will be outside of the project's GRM scope. The GRM does not impede access to the country's judicial or administrative remedies. The aggrieved persons reserve their rights to appeal to the Court of Georgia at any stage of the grievance resolution. Also, if not satisfied with the resolution of the issue by the project GRM, the affected person can send complaint to ADB's Accountability Mechanism, after making good faith efforts to resolve the grievance by the project GRM, as described in the main body of this LARP.

24. **Consultation, Participation and Disclosure.** ADB's SPS requires that AHHs must be meaningfully consulted and given opportunities to participate in resettlement planning, compensation options and LARP implementation. Public consultations and disclosure should be carried out also following national laws. In preparation of this LARP, 4 public consultations were conducted in four project communities (covering also the Main Canal, associated with Area 1) on 6-7 September 2022. In total 67 persons participated. Power Point presentation about the project, expected LAR scope and compensation and mitigation measures as per the draft LARP, GRM and contact information, and ADB's Accountability Mechanism (AM) and

⁴ Other stakeholders include: (i) local government to support the LARP implementation, liaison with project Affected Households (AHHs), communities and other state agencies at district level, (ii) Ministry of Finance to allocate budget for LARP based on the request of the PIU, (iv) National Agency of Public Registry under the Ministry of Justice to register any changes in land and property titles of AHHs (after the impact), and also transfer the land title through purchase agreement from landowners to the state and MEPA will have right to use it for the project needs, (v) Ministry of Economy and Sustainable Development issues a decree confirming the expropriation needs, if required, and assigning the MEPA PIU as the expropriator authorized to initiate expropriation, (vi) Court, in case of expropriation, and (vii) Interested NGOs may participate in monitoring, public consultations, implementing LARP and resolving grievances (detail discussed in Section on Institutional Arrangement hereto).

criterion for filing grievance to the ADB AM, were presented. The questions raised were about the project design and timeline: (i) when modernization works will start and be completed, and (ii) request to include the other areas in the project design (details in Table 11 in main body of this LARP). List of participants and photos from public consultations are in Annex 7.

25. LAR information booklets in Georgian language were distributed to participants (Annex 8). The APs have also been individually consulted during LAR impact assessment, APs census and socio-economic surveys conducted during June to August 2022. The APs were informed to about accessing the copies of LAR booklets left in the offices of the village administrations and by contacting the PIU through the contact information.

26. PIU will ensure information disclosure and meaningful consultation held throughout the project implementation. ADB will disclose the approved safeguard documents (LARF, LARP, social monitoring reports, and others as relevant) in its website in English. PIU will disclose these safeguard documents in its website in Georgian language.

27. **Monitoring and Reporting.** As per ADB SPS requirements, PIU shall ensure regular internal monitoring during the project implementation and submitting the social safeguards SSMRs to ADB for review and clearance. Monitoring will assist to assess the progress of implementation of the LARP, grievances resolution, identify any unanticipated involuntary resettlement impact and take corrective actions on-time to avoid delays in the project implementation. PIU will report in SSMRs the LARP implementation up-to-date, any unanticipated impacts and issues that arise during the project implementation or operation and propose corrective actions. PIU will submit for ADB approval the LARP compliance implementation reports, prior the handover of the site to contractor (sectional approach maybe agreed in the final LARP, as needed).

28. **Budget.** Total budget of the draft LARP is estimated 1,013,518 GEL (361,262 USD).⁵ This includes costs for (i) compensations of all losses and assistance allowances to AHHs, (ii) registration/legalization of unregistered land plots, and (iii) and administration, valuation services and contingency per 10% each. Breakdowns of the costs are in respective tables in budget section of this LARP. Consolidated list of AHHs and their compensation and entitlements are in Annex 14. PIU will cover all LARP costs/budget from the government funds and ensures timely allocation of funds for payment of compensations and assistance to AHHs and overall LARP update and implementation.

29. **Implementation arrangements.** The LARP implementation will start after the PIU endorses and ADB approves the final updated LARP based on detail design. PIU will plan all LAR activities to ensure that all AHHs will receive full compensations and allowances before acquiring their lands and commencement of construction works. PIU will inform the AHHs about their rights and compensation options and clarify any issues and concerns the AHHs may have, and sign compensation agreements with AHHs. PIU will transfer the compensation and assistance allowance amounts to the bank account of each AHH according to the bank payment information provided by the AHHs. PIU will prepare and submit the LARP compliance implementation report to ADB for approval before ADB's issuance of no-objection to start construction works in LAR affected sites. PIU is responsible for the LARP budget and will ensure its timely allocation. Table 12.1 shows in main body of this LARP a tentative implementation schedule and key tasks for LARP implementation (the green marked actions are completed during the TRTA). The schedule shall be updated as necessary, and streamlined with schedule of construction works.

⁵ 1 USD = 2,8055 GEL as per rate of the National bank of Georgia, accessed on 6 October 2022. <https://nbg.gov.ge/en>.

I. INTRODUCTION

A. Background

1. This draft Land Acquisition and Resettlement Plan (LARP) is prepared for the proposed Climate Smart Irrigation Sector Development Program (Program) that Asian Development Bank (ADB) considers to finance in Republic of Georgia. The Climate Smart Irrigation Sector Development Project (CSISDP) will support policy reforms and develop institutional capacity in water resources management and delivery of climate-smart irrigation services. The project will modernize the irrigation system in the Kvemo Samgori left main canal (KSL) irrigation scheme, introduce innovative and climate resilient agricultural production and irrigation technologies to increase agricultural productivity, improve degraded land and increase water security. The project will develop the capacity of the Ministry of Environmental Protection and Agriculture (MEPA) and Georgian Amelioration Company (GA) to implement policy reforms and better manage water resources and irrigation infrastructure and service delivery.

2. The Program will be financed through an ordinary capital resources (OCR) regular policy-based loan (PBL) to support policy reforms and an OCR regular project loan to support investments in the modernization of the KSL scheme and establishment of demonstrations of innovative agricultural production and irrigation technologies, including establishing pilot windbreaks.

B. Impact, Outcome and Outputs

3. The Program is aligned with the following impact: food security in Georgia improved (Irrigation Strategy). The outcome will be sustainable, productive, and resilient agriculture system in eastern Georgia strengthened. The Program will have three outputs described below. The existing project implementation unit (PIU) under the MEPA is the implementing agency for outputs 2 and 3.

4. **Output 1: Institutional, Governance, Management, and Financial Management Enhanced.** The output will support MEPA to strengthen its water resources management and irrigation policies, institutional capacity, and financial management. It will improve the irrigation subsector and increase its contribution to the economy and development objectives of Georgia. The policy actions under the policy-based loan focus on (i) enhanced legal and institutional framework to achieve irrigation policy outcomes and ensure a sustainable management of water resources; (ii) pricing and contracting change to ensure improved efficiency of water use and financial sustainability of irrigation systems in face of current and expected impact of climate change on water resources; and (iii) enhancing governance and management controls to increase the Georgian Amelioration accountability, transparency, and efficiency of its service delivery. The policy reforms will create an enabling environment for Outputs 2 and 3. Output 1 has no physical works to cause land acquisition and resettlement LAR impacts. The Policy Matrix include involuntary resettlement safeguard measures.

5. **Output 2: Irrigation schemes modernized.** It will support the modernization of the dilapidated, under-utilized Kvemo Samgori left main canal irrigation scheme (KSL) in Kakheti region in eastern Georgia. Modernization of the scheme includes repairs to the main canal and installation of a pressurized pipe on-farm irrigation network.⁶ Figure 1 shows the areas to be modernized according to the distributaries serving each area and the reaches of main canal to be modernized. Phase 1 areas are net command areas based on the detailed concept

⁶ The detailed design of Kvemo Samgori modernization activities is accessible from the list of linked documents in Appendix 2 of the report and recommendation of the President.

design for each area. Phase 2 areas are gross areas based on GA estimates. Table 1 lists the areas to be modernized in each phase.

6. Modernization of the main canal will include changes to meet the needs of the area modernization design concept. The main canal will be also modernized in two phases in two phases (Figure 1). The first section of 8.4 km (Ch 313+42 to Ch 397+00) is required to serve Areas 3 (G-38) and 4 (G-39) in Phase 1 of modernization. The second section of 9.2 km (Ch 397+00 to Ch 488+66.7) will serve Areas 5 (G-41) and 6 (G-42) in Phase 2 of modernization.

7. **Output 3: Innovative agriculture production systems demonstrated.** Output 3 will support farmers to modernize and improve their irrigation and agricultural production technologies. The output will:

- (i) Demonstrate innovative irrigation and agricultural production technologies. The potential benefit of introducing such technologies will be assessed in terms of both improved water productivity and incremental financial and economic returns, for instance from diversification to high value crops. For farm irrigation, demonstration of gravity feed and solar powered systems, where practical, for water distribution.
- (ii) Provide capacity development for farmers and scheme stakeholders through training in technology implementation that will facilitate adoption of successful technologies.
- (iii) Identify constraints and means of addressing them such as access to finance, market information, adoption of new technologies, smart farming technologies, and mobile technologies and applications to aid decision making by farmers and other value chain actors.
- (iv) Establish pilot windbreaks to address soil erosion and to enhance crop protection. Demonstrations will be established on areas modernized in the Kvemo Samgori scheme.⁷

⁷ The detailed design of demonstration activities is accessible from the list of linked documents in Appendix 2 of the report and recommendation of the President.

Figure 1. Modernization works areas and phases

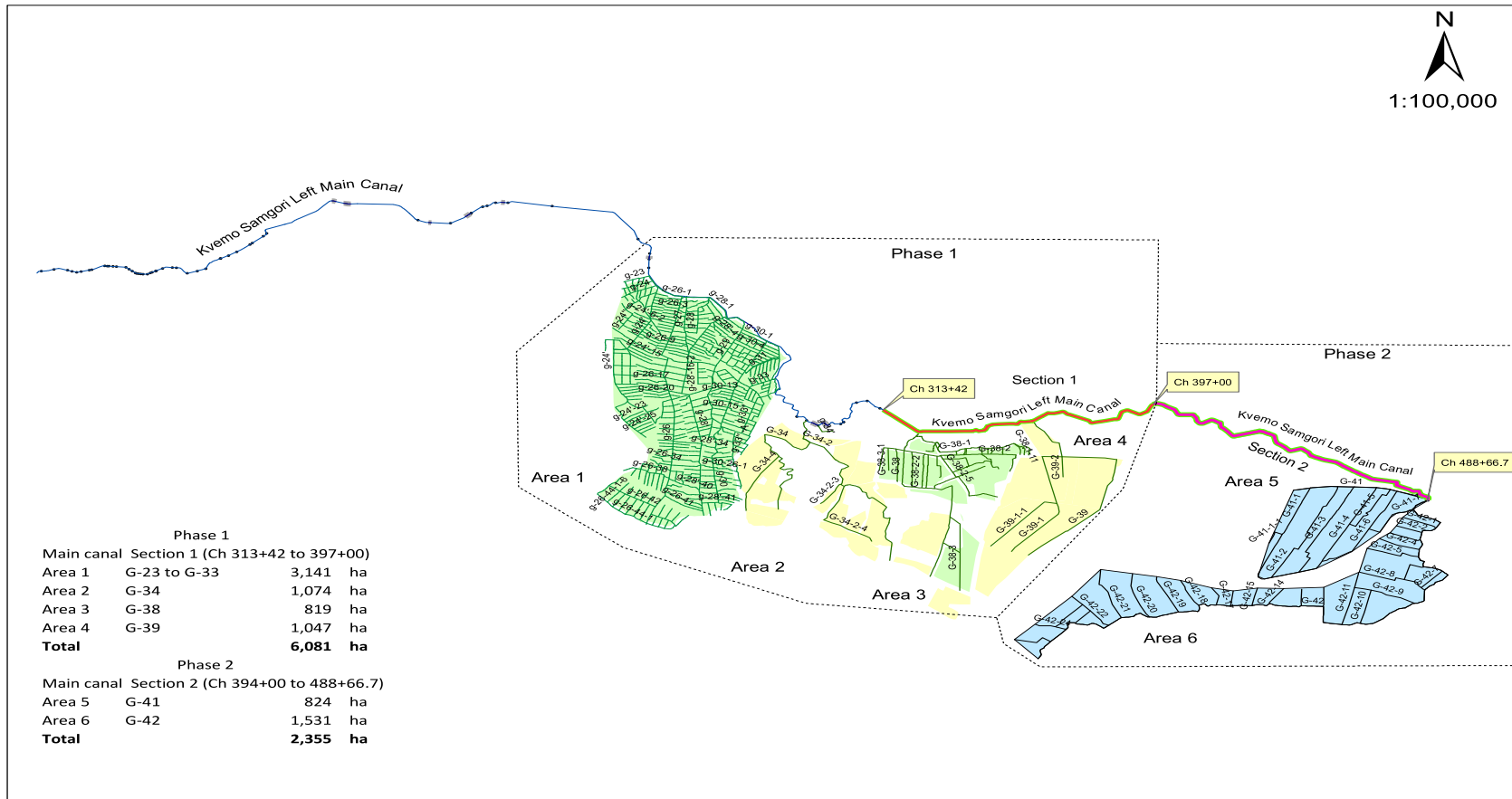


Table 1: Kvemo Samgori Phasing and Areas to be Modernized

Phase/Area	Gross Area (ha)	Net Area (ha)
Phase 1		
Area 1 (G-23 to G-33)	3,141	2,600
Area 2 (G-34)	1,074	766
Area 3 (G-38)	1,252	1,057
Area 4 (G-39)	1,047	949
	6,514	5,373
Phase 2		
Area 5 (G-41)	824	680
Area 6 (G-42)	1,531	1,263
	2,355	1,943
Total Phases 1 and 2	8,869	7,316

Note: Gross areas are based on GA estimates except for Area 3 for which the GA estimate was lower than the net area identified by the concept design for that area. The gross area for Area 3 is based on the TRTA consultants' estimate. Net areas for Areas 5 and 6 are based on the ratio of net area to gross area for Phase 1 areas since concept designs have been completed only for Areas 1 to 4 prior to implementation.

Figures may not sum due to rounding.

Source: Georgian Amelioration and TRTA-6648 GEO consultants.

8. Output 3: Innovative Agriculture Production Systems Demonstrated. Output 3 will support farmers to modernize and improve their irrigation and agricultural production technologies. The output will:

- (v) Demonstrate innovative irrigation and agricultural production technologies. The potential benefit of introducing such technologies will be assessed in terms of both improved water productivity and incremental financial and economic returns, for instance from diversification to high value crops. For farm irrigation, demonstration of gravity feed and solar powered systems, where practical, for water distribution.
- (vi) Provide capacity development for farmers and scheme stakeholders through training in technology implementation that will facilitate adoption of successful technologies.
- (vii) Identify constraints and means of addressing them such as access to finance, market information, adoption of new technologies, smart farming technologies, and mobile technologies and applications to aid decision making by farmers and other value chain actors.
- (viii) Establish pilot windbreaks to address soil erosion and to enhance crop protection. Demonstrations will be established on areas modernized in the Kvemo Samgori scheme.⁸

⁸ The detailed design of demonstration activities is accessible from the list of linked documents in Appendix 2 of the report and recommendation of the President.

9. **Scope of this LARP.** There is concept design for the Main Canal part related to Area 1 and for the Area 1. This LARP is prepared for modernization works for the Main Canal (part related to Area 1, "Main Canal" hereinafter). Another draft LARP is prepared for modernization works in the Area 1. A Land Acquisition and Resettlement Framework (LARF) is prepared to address potential land acquisition and resettlement (LAR) resettlement impacts for the whole Program. LARP(s) shall be prepared for any LAR impacts to be caused by modernization works in Areas 2 to 6 based on the final detail engineering design (DED) after the project approval and implemented before the start of construction works. Further, this LARP will deal only with the LAR impacts related to the Main Canal unless otherwise specified.

C. Methodology

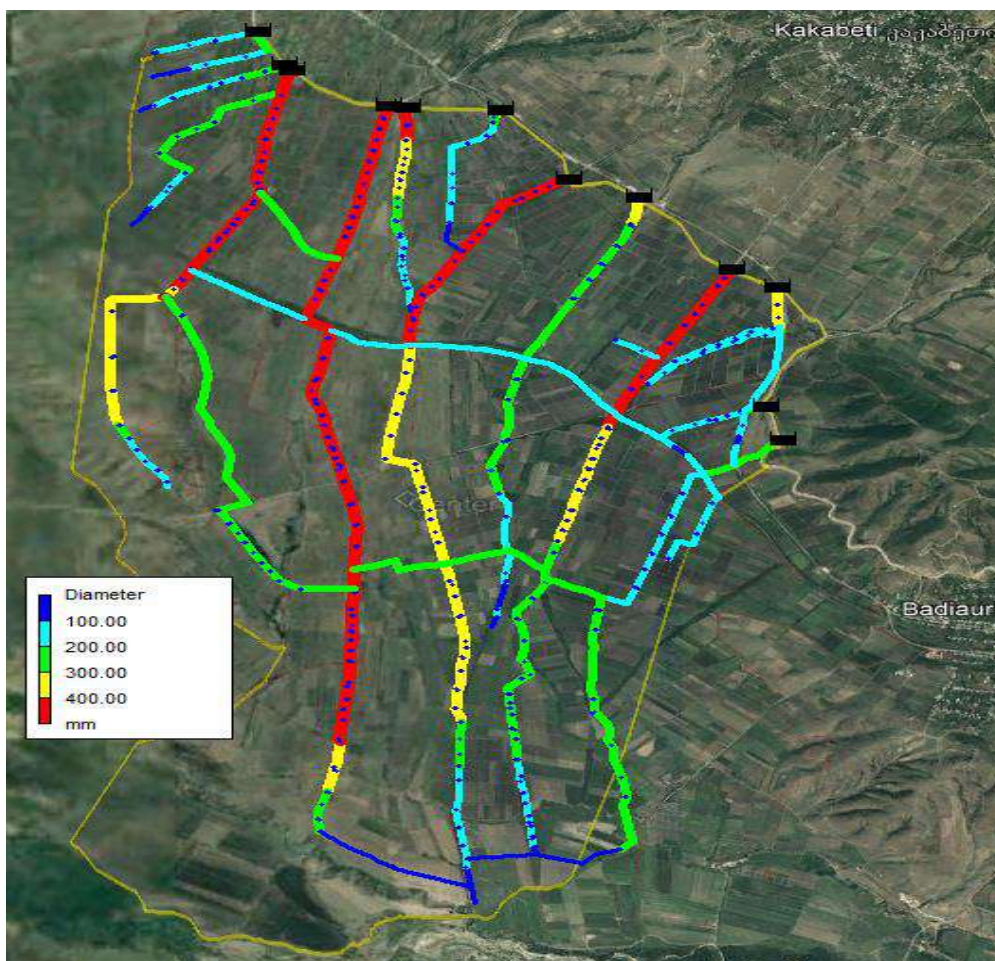
10. Methodologies for preparation of this LARP include:

- (i) LAR impact and detailed measurement survey (DMS) conducted within the ROW of 4 meters width along the existing alignment of the main canal and 2 meters for the secondary and tertiary canals. It is based on the project conceptual design, cadastre documents, site visits and stakeholders' consultations including the PIU and Affected Persons (APs);
- (ii) Census of AHHs (100%); and Socioeconomic Survey (SES, 20% sample of AHHs) for collecting data on APs' baseline living standards, held from June to August 2022;
- (iii) Valuation by independent valuation expert to estimate compensation amounts based on the principle of full replacement cost of losses, and valuation standards and approaches applied in Georgia (valuation methodology is in Annex 15); and
- (iv) Information disclosure and consultations with AHHs held individually during the AHHs' census and surveys, and public consultations during June to September 2022.

II. MODERNIZATION WORKS AREA 1

11. Modernization of the Kvemo Samgori left main canal irrigation scheme includes the installation of a network of closed pipes (rather than rehabilitation of existing infrastructure and facilities) that will provide an improved level of service by allowing farmers to connect directly to the piped distribution network. The key construction works that cause LAR impacts in the network areas are digging trenches and burying pipes at a depth of 1.0-1.5 m mainly along the alignment of the existing open secondary and tertiary channels. The diameters of the pipes for the main pipelines, which will mostly follow existing access roads, will be in the order of outer diameters 100-600mm. Within the distributary network the pipe diameters would be in the order of outside diameters 80-200 mm. Figure 2 shows the distributary network in Area 1 as per the concept design (not final yet). Detail of the types of works are described below.

Figure 2: Area 1 Distributary Network Pipes Diameters



A. Type of Construction Works

12. Construction works will comprise installation of buried pipes, trenching, laying pipes underground along existing channels, backfilling and reinstatement, including:

- (i) Excavation of ground Category III in trenches with an excavator (bucket 0.25 m³);
- (ii) Manual digging of ground inside trenches, arrangement of sand bedding around pipes, and backfilling of ground;
- (iii) Installation of polyethylene pipes, electric and manual cast iron valves;
- (iv) Arrangement of prefabricated reinforced concrete wells (with vase and roofing slabs, retaining rings and insulation of external surface) Height=1.5 m, Diameter = 2.0 m.

13. **Right of way (ROW) and access roads.** Regarding the buried pipelines in the distribution areas (secondary and tertiary canals), there are no regulations about the ROW. In consultation with the with PIU and TRTA engineers (details in Annex 1), the pipelines ROW for LAR impact assessment, within the distribution areas, are defined 4 and 2 meters width corridor for the main pipeline (100-600 mm outer diameter) and for the distribution area secondary and tertiary canals (80 to 200 mm outer diameter) respectively, and where will be also established permanent servitude for operation and maintenance of the system. Access roads exist inside the distribution areas and the main canal, as per original design and construction since the Soviet time (site photos in Annex 2).

III. SCOPE OF LAND ACQUISITION AND RESETTLEMENT IMPACT

A. Resettlement impact scope

14. There will be affected totally 1227 land plots (1106 private and 121 state lands) in the ROW for the installation of the buried pipelines making a total 141,414.52 sqm of lands affected during construction works temporarily and be further encumbered with permanent servitude for systems operation and maintenance at operation stage. Of the total 141,414.52 sqm affected lands, **105, 618.45** sqm are private and **35795** sqm are state lands (Annex 10). All affected **105,618.45** sqm private lands are agricultural land which are vineyards. Table 3.1 shows the impacted lands by ownership. Annex 2 show (i) site photos and (ii) land impacts drawings for the buried pipes alignments as per preliminary design. Of total 1227 land plots, 183 are unregistered.

Table 3.1. Affected lands by ownership

Property ownership type	No. of plots	Affected area sqm	Private plots	Private land, sqm
State lands	90	34 424		
State JSC/LTD	31	1371		
Private JSCs/LTD	24	6 011,52	24	6 011,52
Private lands	1082	99 606 ,93	1082	99 606 ,93
Total	1227	141 414,52	1106	105, 618.45

15. Of the total affected **105,618.45** sqm private lands, 6,011.52 sqm belong to 24 private limited liability companies (LCC-juridical persons) and 99,606.93 sqm are owned by private individual farmers, and all use the land for vine grape production and will be compensated for their temporary losses as per the LARP. The temporary impact scale on the LCCs' lands is minimal, i.e. mainly below 1% and in 4 cases 2%-2.7% of their landholdings, and their business operations will not be affected and/or suspended due to the project works. Therefore, no business impact compensations are envisaged in this LARP. Details of the impacted lands of the private LCCs in Table 3.2 and of private farmers plots in Annexes 11 and 12.

Table 3.2. Private LCC companies lands

No. of plots	Registration	Land use	Total plot area sqm	Affected area sqm	Impact %
1	Registered	Agricultural	32 267,73	453,31	1,40
1	Registered	Agricultural	158 145,75	0,31	0,00
1	Registered	agricultural	86 783,54	151,68	0,17
1	Registered	agricultural	442 031,95	1,41	0,00
1	Registered	Agricultural	2 415,34	15,01	0,62
1	Registered	Agricultural	46 816,70	49,53	0,11
1	Registered	agricultural	37 300,41	265,08	0,71
1	Registered	Agricultural	3 540,43	0,11	0,00
1	Registered	Agricultural	86 119,29	5,70	0,01
1	Registered	Agricultural	15 462,96	3,50	0,02
1	Registered	Agricultural	22 456,26	1,33	0,01
1	Registered	Agricultural	20 073,59	6,86	0,03
1	Registered	agricultural	2 863,31	15,41	0,54
1	Registered	Agricultural	22 274,93	0,00	0,00
1	Registered	Agricultural	236 823,26	2 401,74	1,01
1	Registered	Agricultural	114 621,73	1 277,55	1,11
1	Registered	Agricultural	9 502,66	263,89	2,78
1	Registered	Agricultural	10 000,10	139,12	1,39
1	Registered	Agricultural	61 611,99	488,94	0,79

No. of plots	Registration	Land use	Total plot area sqm	Affected area sqm	Impact %
1	Registered	Agricultural	134 166,20	246,96	0,18
1	Registered	Agricultural	2 627,52	53,00	2,02
1	Registered	agricultural	3 704,47	75,89	2,05
1	Registered	Agricultural	6 408,56	66,17	1,03
1	Registered	Agricultural	3 191,65	29,02	0,91
24			1 561 210,31	6 011,52	

16. The affected private **105, 618.45** sqm land will be encumbered by permanent servitude but not acquired by the project and will remain in ownership of the AHHs. However, the servitude will impose land use restrictions such as prohibition of placing buildings or other structures, and planting trees on top of the pipeline's alignment within the ROW corridor. Lands can be used for growing annual crops and trees which do not grow higher than 4 m with deep root system. No structures/tall trees (above 4m) will be allowed over the impacted area (pipe RoW). These land use restrictions by servitude will limit the potential best use of the affected land plots. As a result, the pre-project market value of the land parcels may diminish after the impact compared to the pre-project value, and shall be compensated for the restrictions imposed by servitude and diminished value of lands. PIU shall negotiate and sign servitude agreement with the land owners following the legislation, in particular the Civil Code (26.06.1997, as amended in 2022). Only if efforts to negotiate the mutually acceptable agreement fail, PIU may request the Court of Georgia to decide on servitude.

17. Of total **1106** private land plots, 19 plots belonging to private farmers will be affected above 10% (Table 3.3) temporary during construction works and encumbered by servitude. As mentioned above, the servitude encumbered lands will not be acquired by the project and will remain in farmers ownership and use. Although the 19 owners (AHHs) of these 19 land plots will not lose their land (as productive asset), with consideration of that above 10% of these land plots will be encumbered with permanent servitude and land use restriction, these 19 AHHs are counted as severely affected in this LARP and entitled for additional allowance.

Table 3.3 Private land plots with over 10% impact (private farmers)

No. of plots	Total plot area, sqm	Affected area of plot, sqm	Impact %
1	1 023,44	109,48	10,70
1	876,92	117,64	13,41
1	3 542,70	509,33	14,38
1	2 582,04	475,36	18,41
1	413,48	136,72	33,07
1	1 734,21	175,40	10,11
1	1 207,74	134,79	11,16
1	930,74	149,53	16,07
1	2 335,53	281,90	12,07
1	1 400,78	192,78	13,76
1	1 229,60	238,95	19,43
1	2 124,55	252,21	11,87
1	2 404,13	298,03	12,40
1	147,80	95,36	64,52
1	415,16	59,39	14,31
1	1 000,17	171,92	17,19
1	2 537,84	265,72	10,47
1	5 304,39	535,94	10,10
1	2 164,14	254,44	11,76
19	33 375,36	4 454,89	

18. Crops barley, corn, sunflower, watermelon will be lost in **12,691** sqm land (Table 3.4). From this total 12,691 sqm affected crop area, in 332 sqm crop (corn only) affected in state lands which are available paths between the vineyards and private land owners use strip areas along the paths adjacent to their lands for planting trees and crops and they will be compensated for these losses too. Impacts on state lands (crop, trees, poles and wires) are summarized below and details are in tables in Annex 13.

Table 3.4 Crops

#	Type	Area in sq.m	yield (kg)
1	Barley	169,00	5 000,00
2	Corn	8 663,00	10 000,00
3	Sunflower	69,00	2 000,00
4	Watermelon	500,00	25 000,00
5	Wheat	3 290,00	3 500,00
Total:		12 691,00	45 500,00

19. Totally **16,884** trees will be affected including mostly vine grape trees (16805) and 47 other trees such as apple tree, plum, peach, etc. (see Table 3.5). Details of types of trees and ages are in budget section hereto. Of this total, 555 trees (vine grape tree- 513, plum – 41, and apple -1) are in state lands – in the available paths between the vineyards as mentioned in para above.

Table 3.5. Affected trees by numbers

Tree s	Vine	Appl e	Cherr y	Fi g	Mullberr y	Nu t	Peac h	Pea r	Plu m	Quinc e	Tkema l i	Total
No.	16,805	12	1	1	3	14	2	1	42	1	2	16884

20. No major structures but 4,800 poles and 71,952 meter wires supporting grape trees (see photos 4 and 5 in Annex 2), and 13.5 fences will be affected (Table 3.6). Of total affected poles and wires, 146 piece of poles and 2191 meters wires will be affected in state lands along the available access routes and paths between the vineyards.

Table 3.6. Poles and wiring supporting the grape trees

Type	Area sqm	Quantity
poles (pieces)	30 086,12	4 800
wiring (meter)	30 086,12	71 952
Fences	27	13,5

21. No business, workers, and no squatters (besides the land owners using the state lands in strip areas along the paths between the vineyards adjacent to their lands for planting trees and crops) are affected neither permanently or temporary. The temporary impact scale on the 24 LCCs' lands is minimal, i.e. mainly below 1% and in 4 cases 2%-2.7% of of their landholdings, and their business operations will not be affected and/or suspended due to the project works. Therefore, no special business impact compensations are envisaged in this LARP. 19 severely AHHs are identified due to over 10% permanent servitude impact on their lands that will cause permanent land use restriction. 4 vulnerable AHHs due to disable family member. Table 3.7 presents the summary of all impacts.

22. The project is Category B for Involuntary Resettlement (IR) Safeguard following ADB SPS (2009). No indigenous people or any ethnic minority groups as defined in ADB SPS

(2009) live in the project area. The project is Category C for Indigenous Peoples impact safeguards.⁹

Table 3.7. Summary of all impacts

Type of Impact, total	No./units	No. of AHHs (double count)
Total number of plots	1227 (121 of this are state lands)	1106
Private plots	1106	1106
Total area of affected lands	141 414,52 sqm	
Private land affected temporary and by servitude	105, 618.45 sqm	1106
State lands affected temporary and by servitude	1372 Sqm	
Unregistered/legalizable plots	183	183
Crops affected area	12 691 sqm	
Affected trees	16 805 (all fruit trees)	251
Poles supporting grape trees	4800 pieces	191
Wires supporting grape trees	71 952 meters	191
Fences	13,5 pieces	3
Total No. of AHHs and APs	1071 AHHs + 24 LCC (1 LCC =1 AHHs counted conditionally)	1,095 AHs (approx. 4695 APs;
No. of severely AHHs	19	13 (6 co-owners)
No. of vulnerable AHHs	4	4

B. Safeguard and impact avoiding/minimizing measures

23. **1st: LARP preparation stage.** As per the principles of the ADB SPS (2009) and national laws, LAR impact as possible shall be avoided/minimized, and unavoidable LAR impacts shall be mitigated. The design solutions shall consider options for avoiding/minimizing impact. At the preliminary design preparation stage, the TRTA safeguard and engineering team have adjusted the alignment of the proposed underground pipelines in the distribution network (Area 1, secondary and tertiary channels buried pipes). As result, impact to electricity poles and some structures (photos in Annex 4) have been avoided.

24. **2nd: LARP update stage** (dates will be subject to the project detailed design preparation progress). The site photos in Annex 2, show the typical situation in the project area. There are lot of spaces for avoiding impacts and the followings shall be considered in the DED preparation:

- (i) By adjusting/shifting the pipeline alignment in 0,5 to 1 meter either side of the grape trees and or the private lands and the access roads within the distribution area, as example, the impact can be avoided and minimized.
- (ii) The design team shall also seek alternatives for using machines /work technologies to avoid/minimize impact. There should also be the design and work technologies shall be considered to avoid/minimize LAR impact.

25. **Other safeguard measures.** Further, the following measures shall be applied:

- (i) ADB include in the project financing agreement covenants for application of social and resettlement safeguard measures as per ADB SPS (2009) and project LARP;
- (ii) PIU shall include in the Contractor's contract provisions about involuntary resettlement safeguards and mitigation measures the Contractor should comply with (e.g., reports on grievances and keeping the GRM Logbook, following the ROW during the construction

⁹ A proposed project is classified as category B if it includes involuntary resettlement impacts that are not deemed significant. A resettlement plan, including assessment of social impacts, is required. Project is assessed as Category C for Indigenous People Safeguards following ADB Safeguards Policy Statement (SPS 2009). No indigenous people or any ethnic minority groups live in the project area and ADB SPS requirements on indigenous people safeguards are not triggered, and no actions will be required. ADB Operations Manual: Safeguard Policy Statement (F1): OM Section F1/OP Issued on 1 October 2013.

- works, not block the AHHs' adjacent no-impacted lands, inform AHHs about the schedule of construction works that can affect their activities);
- (iii) PIU will ensure continuous meaningful consultations with AHHs and communities, and inform communities about the schedule of the civil works;
 - (iv) Contractor will restore lands to the previous condition with the saved top soil,
 - (v) PIU and Contractor to ensures that the irrigation canals will be functional so the AHHs' will have access to irrigation supply on their no-impacted parts of lands;

IV. SOCIO-ECONOMIC INFORMATION

26. In preparation of this draft LARP, the census of all 1077 AHHs and socio-economic study (SES) with the sample survey of 20% of AHHs (269) has been conducted. It provides an analysis of the main socio-economic characteristics of the AHHs, including on following:

- Social and economic characteristics of AHHs, including the demographic and gender disaggregated data on age, educational levels
- Information on vulnerable groups for whom additional assistance shall be provided in LARP besides the compensation of losses;
- Baseline information on AHHs' livelihoods, income sources from both formal and informal jobs, AHHs' monthly incomes and monthly expenditures levels,
- Occupations of AHHs' members, and their primary and secondary income sources
- Standards of living of AHHs including their housing conditions, access to water, electricity, education and health facilities) of the displaced population;

27. The SES was conducted with 269 AHHs (20% of sample of 1077 AHHs) from 4 villages of the project area (Table 4.1).

Table 4.1. Total No. of surveyed in AHHs

Province	District	Village	No. of AHHs SES	No. of APs
Tbilisi			8	15
kakheti	sagarejo	kakbeTi	235	628
kakheti	sagarejo	chailuri	24	88
kakheti	sagarejo	khandaura	2	2
			269	733

28. By age group, 49% surveyed AHHs' head (133) are over 60 years old, 23% (63) are between 51-60, and 21 % (56) AHHs head in age range of 36-50. Of total 733 APs, 34% are over 60 years old followed by the 23% in range of 36-50 years old (Tables 4.2).

Table 4.2. Age of surveyed heads of AHHs and APs

AHHs			APs		
Age groups	No. of head of AHHs	%	Age Group (years)	No. of APs	APs %
Up to 20	0	0	Up to 20	77	10.5
21-35	17	6.3	21-35	111	15.1
36-50	56	20.8	36-50	169	23.1
51-60	63	23.4	51-60	127	17.3
> 60	133	49.4	> 60	249	34
total	269	100.0	Total	733	100

29. By gender, of total surveyed 269 AHHs, men are heads in 82.5% AHHs, and women in 17.5%, indicating to more men are owning lands than women. Out of total 733 APs, 54.6% (400) are men and 45.6% (333) are female. By ethnicity groups, most the AHHs and APs are Georgian (82.5%) while 17.5% are reported being Azerbaijanians (Tables 4.3-4.5).

Table 4.3. Gender of Heads of AHHs

Gender of head of AHHs	No. of AHHs	%
Male	222	82.5
Female	47	17.5
Total	269	100.0

Table 4.4. Gender by Aps

Gender APs	No. of APs	%
Male	400	54.6
Female	333	45.4
Total	733	100.0

Table 4.5. Ethnicity of AHs

Head of AHs	Male	%
Georgian	222	82.5
Azerbaijan	47	17
Total	269	100

30. Majority of the heads of AHHs reported married (64%), 25% single, 8.1% widow and 2.7 divorced. Of total 400 APs covered in this question, 52% (208) men reported being married, while 39.7% (159) are reported single. Among females, of total covered 333 APs, 56.5 females reported being married while 27.6% reported being single (Tables 4.6-4.7).

Table 4.6. Marital status head of AHs

Heads of AHs	No. of AHs			
	Male	%	female	%
Married	143	64.1	11	23.9
Divorced	6	2.7	4	8.7
Widow	18	8.1	26	56.5
Single	56	25.1	5	10.9
total	223	100.0	46	100.0

Table 4.7. Marital status of Aps

Marital status of APs	APs			
	Male	%	female	%
married	208	52.0	188	56.5
Divorced	11	2.8	5	1.5
widow	22	5.5	48	14.4
Single	159	39.7	92	27.6
total	400	100	333	100.0

31. On education, majority head of AHHs (72.5% or 195) have secondary education, while 23.8% or 64) have high education. The APs also majority have secondary education (62.2% or 456) while 23.5% (172) have high education (Table 4.8).

Table 4.8. Education

Education status	Head of AHs		APs	
	No.	%	No.	%
Preschool	0	0	26	3.6
Primary	0	0	49	6.7
Secondary	195	72.5	456	62.2
technical	10	3.7	30	4.0
higher	64	23.8	172	23.50
total	269	100.0	733	100.0

32. Majority AHs heads income sources are from agriculture 56.6% or 269), followed by pension. For APs, 36.6% (269) reported income from agricultural activities, and 24.1% (177) from pension payments (Table 4.9).

Table 4.9. Employment patterns

Employment/occupations	Head of AHs, No. %		APs, No. %	
civil servant	28	5.9	64	8.7
private sector	15	3.2	79	10.7
Agriculture	269	56.6	269	36.6
pensioner	95	20.0	177	24.1
Help from relatives	17	3.58	65	8.8
temporary employment	31	6.5	82	11.1
Total	475	100.0	736	100.0

33. On movable properties, all 100% have TV, refrigerators, cars and mobile phones, 98.5% have washing machines. 52.8% have internet and 54% gave computers. (Table 4.10)

Table 4.10. Movable properties of AHs

Key facilities /items	No. of AHs	%
TV	282	100.0
Fixed phone	7	3.0
mobile	331	100.0
Internet	142	52.8
radio	0	0
computer	146	54.3
washing machine	265	98.5
refrigerator	269	100.0
Motorcycle	6	2.2
car	306	100.0
bicycle	22	8.2

34. About 50% (134) of AHs make average monthly income from 800 to 1500 GEL, 30% (81) make average 1500 GEL, and 20% (54) make from 300 to 800 GEL (Table 4.11). Income sources include civil servant jobs, private sector, agriculture, business and temporary employment (Table 4.12).

Table 4.11. Self-reported monthly income

Monthly income (GEL)	No. of AHs	%
From/to 0–300	0	0
From/to 300–800	54	20.1
From/to 800–1500	134	49.8
From 1500 and above	81	30.1
Total	269	100.0

Table 4.12. Income sources patterns and monthly income

Income and Sources	No. of AHs*	Average income, GEL
civil servant	30	1040
private sector	19	980
Agriculture	266	830
pensioner	225	280
help from relatives	14	284
temporary employment	83	375
private business	6	900

*The same AHs reported one or more income sources

35. The AHs have self-reported their monthly expenses amounts and patterns as GEL for food-347, clothes 140, transport 202, utility services 97 GEL (Table 4.13).

Table 4.13. Households' Average Monthly Expenses self-reported

Expenses patterns	Average GEL
food	348.0
clothes	140.0
communal	97.0
drinking water	13.0
health care	76.0
education	3.0
transport	202.0
Internet	40.0

36. Surveyed 269 AHHs reported have agricultural lands without structures (Table 4.14).

Table 4.14. Landholdings of AHs /Agrilands

#	No. of AHs	Pasture	arable	Plot with structure	Village name
1	8	0	8	0	tbilisi
2	235	5	230	0	kakabeti
3	24	1	23	0	chailuri
4	2	0	2	0	kandaaura
Total	269	6	263	0	

37. All AHHs have own and live in own house (98%, or 264) and apartments(2%, of 5). No AHHs reported being living in rented or someone else (e.g. relatives) houses (Table 4.15).

Table 4.15. Home Assets/Housing condition

Description	No. of AHs	%
Live in own house	264	98.1
Live in own apartment	5	1.9
Live in rented house/apartment	0	0
Live with someone house/apartment (relatives, friends)	0	0
Other, specify	0	0

38. All AHHs reported having livestock such as cows, sheep, goats chicken (table 4.16).

Table 4.16. Livestock and poultry of AHs

Types	No. of livestock	No. of AHs
cow	163	39
sheep	162	10
goat	5	3
pig	212	108
horse	4	3
donkey	2	1
chicken	3189	224

39. About 54% (145) of surveyed AHHs reported have loans for agricultural purposes, while 45% (124) reported having no loans. (Table 4.17).

Table 4.17. Unpaid loans of AHs

Loan from	No. of AHs	Purpose of loan
Bank	145	agricultural
Private person	0	
No any loan	124	
Total	269	

40. All surveyed 269 AHHs reported have access to electricity, gas and also use woods for energy in combination (Table 4.18).

Table 4.18. Energy resources

No.of AHHs	Electricity	Natural gas	Gas cylinder	Wood	Other
269	269	269	0	269	0

41. AHHs reported to have good roads connectivity and local polyclinics nearby; local hospitals and high schools are located about 18 km and 70 km respectively away (Table 4.19).

Table 4.19. Distance to education, medical and utility facilities (distance km)

No. Of AHHs	Local polyclinics	Local hospital	District or city-hospital	kinder garten	school	High school	Local road	Central highway
269	0	18	18	0	0	70	0	0

42. All 260 AHHs surveyed expressed positive perceptions and expectation from the project (Table 4.20).

Table 4.10. Perceived Project Benefits and Disadvantages

No. of AHHs	Negative	Neither positive no negative	Positive	Very positive
269	0	0	157	112

V. Policy And Legal Framework

43. This LARP is based on requirements of ADB's SPS, laws of Georgia and LARF endorsed for the Program by the PIU and ADB.

A. Laws and Regulations of Georgia

44. The laws regulating the LAR process include the followings.

- (i) **Constitution of Georgia** (24 August 1995, as amended in 2020). It guarantees private ownership, privatization, freedom of economic activities and legal protection of all forms of ownership, and bases for eminent domain and expropriation of lands and properties for public needs only after full compensation. It provides information disclosure and public access to information.
- (ii) **Civil Code of Georgia** (26 June 1997, as amended in 2022). Among the other norms, (i) defines the legal status of all participants of civil and economic relations, (ii) contractual obligations, (iii) principles of compensation of losses of assets, income and income opportunity due to LAR to legal/legalizable owners/users, and (iv) provisions about the servitude rights establishment.
- (iii) **Law of Georgia on the Rules for Expropriation of Ownership for Necessary Public Needs** (23 July 1999, as amended in 2020). It specifies (i) bases and rules about expropriation of land and properties for emergency and public needs and full and fair compensations of losses of owners/users, as well as rules on enforcing expropriation, (iii) type of activities (projects) of public needs and eligible for acquisition and expropriation such as electricity transmission and distribution lines, water and irrigation systems, roads, and so on.
- (iv) **Law of Georgia on Recognition of the Property Ownership Rights Regarding the Land Plots Owned by Physical Persons or Legal Entities** (11 June 2007 as amended in 2021). It provides terms and conditions for recognizing property rights of lawfully possessed (used), as and informally used lands, and in the process of recognition of such property rights.
- (v) **Law of Georgia on Ownership Rights to Agricultural Land** (22 March 1996, amended by 2019), regulates ownership, agricultural land rights, and LAR process.
- (vi) **Law of Georgia on State Property (2010 as amended in 2021)**. The law regulates the relations related to management, disposal and use of state property of Georgia
- (vii) **Law on Public Register** (19 December 2008, as amended in 2021). It determines the organizational and legal basis for maintaining a public registry, and the rights and duties of the National Agency of Public Registry, a body operating under the Ministry of Justice of Georgia and responsible for maintaining the public registry.
- (viii) **Labour Code of Georgia**, (25 May 2006, as amended in 2021). The code regulates the labor and contractual relations of the employers and employees, emphasizing on protecting employees' rights. The employees would be entitled for indemnity allowances for premature termination of their employment contracts. The employees indemnity allowances would vary depending on years of services.
- (ix) **Decree of the Minister of Urbanization and Construction of Georgia** (#19, 30/06/2003) on Construction Norms of the Amelioration System Right of Way. It sets out the procedures for the protection of irrigation lines including the parameters (area,

distances, width, clearances) of the protective zones, access roads, protection zones/RoWs.

- (x) **Regulation of the Prime Minister of Georgia #409, 31/12/2013** on the Technical Norms of the Operation of the Amelioration Canal. It sets the norms of canal operation activities and rule for management of the canal by Georgian Amelioration.
- (xi) **Regulation of the Prime Minister of Georgia #440, 31/12/2013** On Water Protection Norms of the Operation of the Amelioration Canal. It sets water protection norms of canals and how these zones should be protected.

45. **Key principles of laws:** In summary, legislation of Georgia provides key principles of (i) state eminent domain right allowing LAR for public needs; (ii) avoiding, minimizing and compensating unavoidable LAR impacts, loss of assets and incomes at full value and before physical or economic displacement, but for AHHs with legal/legalizable land and property rights.

46. If PIU cannot reach agreement with owners of land and no other solution can be found land may need to be expropriated for the project only by the order of the Minister of Economy and Sustainable Development of Georgia, confirming the acquiring the land for public needs by the expropriating entity is required before the EA can apply to court for land expropriation. Further, expropriation is allowed only based on the decision of the court entered the legal force and after payment of due compensation to AHHs. The court decision should also include a detailed inventory of the assets to be expropriated and compensation amount to be paid to AHHs for their land and other types of losses. Under no circumstances should the EA PIU take the land and initiate physical and/or economic displacement until: (i) the proper judicial process as defined by the law is initiated, (ii) a court order has been obtained and properly communicated to AHHs, and (iii) compensation (and assistance allowances if affected households is eligible) are paid, and/or deposited in an escrow account as relevant from case to case. However, these principles are envisaged for AHHs with legal and legalizable land and property rights (compensations legalizable properties can be compensated after their state registration and legalization), but not for AHHs without legal/legalizable land and property rights.

47. Civil Codes allows negotiating servitude establishment on private lands when required. If the AHHs and the PIU cannot come to an agreement about the LAR process, servitude, and/or compensation rates, expropriation by court can be initiated following the laws of Georgia and procedures set out in the Civil Code Article N180 (26.06.1997 as amended by 20 and the Law of Georgia “On the Rules for Expropriation of Ownership for Necessary Public Need” from July 23, 1999 (as amended by 2020).

48. Registration of land and property rights are required by law for compensating the loss of lands and assets/incomes to AHHs who do not have formal registered lands and property rights but whose claims for such rights can be recognized and legalizable. The LARP shall identify any legalizable AHHs and define the process, roles and tasks of the PIU to assist for free the AHHs with legalization process, in order to become eligible for land compensations. PIU shall cover legalization costs, and this LARP includes budget for relevant costs.

B. Involuntary Resettlement Safeguards Requirements of ADB SPS (2009)

49. **Objectives:** To avoid involuntary resettlement wherever possible; to minimize involuntary resettlement by exploring project and design alternatives; to enhance, or at least restore, the livelihoods of all displaced persons in real terms relative to pre-project levels; and to improve the standards of living of the displaced poor and other vulnerable groups.

50. **Scope and Triggers.** The involuntary resettlement safeguard requirements cover physical displacement (relocation, loss of residential land, or loss of shelter) and economic displacement (loss of land, assets, access to assets, income sources, or means of livelihoods) as a result of (i) involuntary acquisition of land, or (ii) involuntary restrictions on land use or on access to legally designated parks and protected areas. It covers them whether such losses and involuntary restrictions are full or partial, permanent or temporary.

51. **Key Policy Principles.** Resettlement planning is an integral part of the project design for all ADB projects associated with LAR and shall be started in the early stage of the project cycle, considering the key policy principles or involuntary resettlement, as follows:

- (i) Screen the project impact at an early stage to determine past, present, and future involuntary resettlement impact and risks. Determine the scope of resettlement planning through a survey and/or census of affected households, including a gender-related resettlement impact.
- (ii) Carry out meaningful consultations with affected households, host communities, and concerned nongovernment organizations. Inform all displaced persons of their entitlements and resettlement options. Ensure their participation in planning, implementation, and monitoring and evaluation of resettlement programs. Pay attention to the needs of vulnerable groups, especially those below the poverty line, the landless, the elderly, women and children, and Indigenous Peoples, and those without legal title to land, and ensure their participation in consultations. Establish a grievance redress mechanism to receive and resolve the DPs' concerns. Support the social and cultural institutions of affected households and their host population. Where involuntary resettlement impact and risks are highly complex and sensitive, compensation and resettlement decisions should be preceded by a social preparation phase.
- (iii) Improve, or at least restore, the livelihoods of all affected households through (a) land-based resettlement strategies when affected livelihoods are land-based where possible or cash compensation at replacement value for land when the loss of land does not undermine livelihoods, (b) prompt replacement of assets with access to assets of equal or higher value, (c) prompt compensation at full replacement cost for assets that cannot be restored, and (d) additional revenues and services through benefit-sharing schemes where possible.
- (iv) Provide physically and economically affected households with needed assistance, including the following: (a) if there is relocation, secured tenure to relocation land, better housing at resettlement sites with comparable access to employment and production opportunities, integration of resettled persons economically and socially into their host communities, and extension of project benefits to host communities; (b) transitional support and development assistance, such as land development, credit facilities, training, or employment opportunities; and (c) civic infrastructure and community services, as required.
- (v) Improve the standards of living of the displaced poor and other vulnerable groups, including women, to at least national minimum standards. In rural areas provide them with legal and affordable access to land and resources, and in urban areas provide them with the relevant income sources and legal and affordable access to adequate housing.
- (vi) Develop procedures in a transparent, consistent, and equitable manner if the land acquisition is through a negotiated settlement to ensure that those people who enter into negotiated settlements will maintain the same or better income and livelihood status.
- (vii) Ensure that DPs without titles to land or any recognizable legal rights to land are eligible for resettlement assistance and compensation for loss of non-land assets.
- (viii) Prepare a resettlement plan elaborating on displaced persons' entitlements, the income and livelihood restoration strategy, institutional arrangements, monitoring and reporting framework, budget, and time-bound implementation schedule.
- (ix) Disclose a draft LARP, including documentation of the consultation process on time, before project appraisal, in an accessible place and a form and language(s)

understandable to affected households and other stakeholders. Disclose the draft and final LARP to affected households and other stakeholders.

- (x) Conceive and execute involuntary resettlement as part of a development project/program. Include the full costs of resettlement in the presentation of the project's costs and benefits. For a project with significant involuntary resettlement impacts, consider implementing the involuntary resettlement component of the project as a stand-alone operation.
- (xi) Pay compensation and resettlement entitlements before physical or economic displacement. Implement LARP under close supervision throughout project implementation.
- (xii) Monitor and assess resettlement outcomes, their impacts on the standards of living of AHHs, and whether the LARP has achieved its objectives considering the baseline conditions and the results of resettlement monitoring. Disclose monitoring reports.

52. ADB's SPS provides three categories of AHHs with variable compensation entitlements:

- (i) **AHHs with legal titles:** AHHs with formal legal rights to land/land use right lost in its entirety or in part.
- (ii) **AHHs with legalizable rights:** AHHs without formal legal rights to land in its entirety or part but who have claims to such lands that are recognized or recognizable by law.
- (iii) **AHHs without legal titles:** AHHs who have neither formal legal rights nor recognized/recognizable claims to lands which they lost in its entirety or part.

53. For AHHs in categories (i) and (ii) above, compensation should be paid for loss of a land use right and compensation at full replacement cost for structures, land improvements and relocation assistance. For AHHs in category (iii) (informal settlers), the borrower/client shall compensate all assets other than land (i.e., buildings, trees, crops, businesses) at full replacement cost. The risk of opportunistic encroachment on land designated for acquisition by the project is managed through a cut-off date to be established at the final date of the AHHs census and DMS of affected assets.

54. Compensation for loss of land may be in the form of replacement land (if feasible and preferred by the AHHs) or in cash at replacement cost that is based on the fair market value of the affected asset and includes also any other cost such as: (i) transaction costs; (ii) interest accrued if payment delayed; (iii) transitional and restoration costs; and (iv) other applicable payments, if any. Compensations for all other assets is to be provided in cash at replacement cost without deductions for amortization, salvaged materials, and transaction costs.

C. Comparison and Reconciliation of Gaps

55. Overall the requirements of laws of Georgia and of ADB's SPS on involuntary resettlement safeguards match except of a few gaps. The key gap is that under the legislation of Georgia the AHHs with formal and/or legalizable rights are entitled for full compensation for loss of lands, assets and income, but not the AHHs without such legal rights. While ADB's SPS requires that the AHHs without formal rights/legalizable rights to land and assets they possess, shall be compensated fully at replacement cost at least for loss of all non-land assets. SPS also requires to provision of assistance allowances to vulnerable and severely AHHs, and relocation assistance to physically displaced AHHs. The gaps between the requirements of ADB's SPS and national laws have been reconciled in previous ADB-assisted projects in Georgia and those reconciliation measures will be applied under this Program too (Table 5.1). Compensations for all types of losses provided hereto shall be paid at full replacement cost, as be identified by an independent valuation entity.

Table 5.1. Comparison of Georgian laws and ADB SPS, and reconciliation measures

Georgia Laws	ADB SPS 2009	Reconciliation Measures
Land compensation only for titled AHHs. In practice legalizable land owners are also compensated after they register their ownership with the National Agency of Public Register (NAPR).	Lack of title should not be a bar to non-land loss compensations and rehabilitation assistance. Non- titled land users shall receive compensation at replacement cost for all losses, any structures and assets they may have on the land. They are entitled for additional rehabilitation assistance if relevant (i.e. severely affected, vulnerable or in case of physical relocation).	AHHs with no legal/legalizable land/property rights will be compensated at least for all non-land assets/income losses. In addition, one-time cash assistance allowance to be paid to eligible AHHs (vulnerable, for severe affected, and those who will be physical relocation) before displacement occurs. PIU will assist AHHs to register/legalize their land and property rights to get compensations. The contractor will be responsible for compensating damages occurred due to contractor's performance (not LAR) and the PIU shall monitor and guide the processes.
Only registered houses/buildings are compensated for damages/demolition due to the project's LAR impacts	Compensation at replacement cost shall be paid to AHHs for affected houses/buildings, regardless of legal status	PIU will assist the AHHs to register/legalize their land and property rights to get compensations.
Compensation for structures, crops and trees provided only to AHHs who has registered/legalizable land/property rights	Compensation at replacement cost shall be paid to all AHHs regardless of legal status (even unregistered landowners, shall be compensated for all non-land losses at least)	Compensations shall be paid to all AHHs even unregistered landowners, for all non-land losses at least;
Executing agency is the only pre- litigation final authority to decide about complaints. Complaints are reviewed through procedures established by the Administrative Code of Georgia. There is no project-level grievance redress mechanism.	IA shall set up an efficient project level GRM to resolve complaints of AHHs (or other affected persons/entities) in timely and consensus manner; IA shall form a grievance redress committee (GRC) with representatives of the IA, local governments, AHHs/ complainants, NGOs and/or local community-based organizations (CBOs). ADB has Accountability Mechanism (AM) for reviewing the complaints not resolved at the project level GRM. IA shall inform AHHs and public about the project GRM and ADB's AM.	PIU shall set up a project-level GRM to receive, register and resolve grievances from AHHs/APs in timely and consensus manner. PIU shall form a GRC with the representatives of the executing agency, local governments, AHHs/complainants, nongovernment organizations and/or local CBOs. If solution could not be found at the project-level GRM or the complainant is not satisfied, the case shall be resolved according to the national judicial system; the AHHs/complainant can also bring the case to attention of ADB's AM. PIU shall inform AHHs and public about the project GRM and ADB's AM.
LAR process and information are discussed only between the AHHs and the agency acquiring land for the project. ¹⁰	Safeguard documents (LARF and LARPs, social monitoring reports) shall be publicly disclosed; IA shall conduct public consultation with AHHs and interested stakeholders	ADB will disclose the LARF, LARP social monitoring reports on its website and encourages the executing agency to disclose them on its website too;
No provision for income/livelihood rehabilitation, allowances for vulnerable and severely AHHs	Additionally assistance allowances for vulnerable and severely AHHs, and relocation and rehabilitation assistance to physically displaced AHHs shall be paid.	PIU will pay additional assistance allowances for vulnerable and severely AHHs, and relocation and rehabilitation assistance to physically displaced AHHs, as per Entitlement Matrix in LARP.
No specific plan and requirements for public consultation	AHHs must be meaningfully consulted and given opportunities to participate in project implementation, consulted in an appropriate and timely manner on LAR planning and compensation options, and LARP implementation.	Public consultation process will be conducted as per ADB SPS requirements and guidelines before and during LARP and project implementation.
Recognition and compensation for business (officially registered) losses	All AHHs, regardless of impact on formal and informal business, shall be compensated for loss of income during business disruption (if impact is	All AHHs experiencing LAR impact on business (formal and informal) shall be compensated for loss of income during

¹⁰ Although Georgian laws allow everyone to request any agreement registered In the NAPR.

Georgia Laws	ADB SPS 2009	Reconciliation Measures
resulting from LAR due to the project based on official tax declaration	temporary) and/or business loss if impact is permanent.	business disruption (if impact is temporary) and/or business loss if impact is permanent.
No specific plan LARP preparation and disclosure to AHHs.	PIU shall prepare and implement LARP, and disclose it to AHHs.	PIU shall prepare and implement LARP and disclose it to AHHs.

LAR = land acquisition and resettlement, LARF = land acquisition and resettlement framework, LARP = land acquisition and resettlement plan, PIU = project implementation unit.

D. Resettlement and Compensation Policy of the Program

56. The project design preparation and LAR process, compensations and assistance to AHHs to mitigate unavoidable LAR impacts shall be based on principles of ADB's SPS and laws of Georgia and the project shall:

- (i) Avoid and/or minimize the LAR impact as possible by engineering design options.
- (ii) Where impacts will be unavoidable, prepare and implement a LARP with provisions to compensate AHHs and mitigate impacts to ensure the AHHs improve or at least regain their pre-project social and economic conditions.
- (iii) Conduct information disclosure and meaningful consultations with AHHs continuously about the LAR planning and compensation options and assistance and ensure their participation in the project implementation and monitoring.
- (iv) Provide additional assistance to vulnerable and severely AHHs.
- (v) Assist the AHHs with income restoration and rehabilitation activities, in case of severely impact, and physical displacement.
- (vi) Pay AHHs with no legal and/or legalizable rights to land and assets (informal land and property users) full compensations at replacement cost at least for all non-land losses (e.g., buildings and structures, trees and crops, formal/informal business and employment).
- (vii) Disclose the LARP to AHHs in their local language.
- (viii) Pay full compensations at replacement cost and rehabilitation assistance to AHHs according to the final approved LARP before physically acquiring lands and commencement of construction works by the contractor in the impacted sites.
- (ix) Set up a project-level GRM that will be in place and accessible to AHHs and any other affected persons and public during the project implementation and evaluation.
- (x) Restored temporarily affected lands to its previous use and allow the AHHs to continue their cultivation after completion of civil works.
- (xi) Set up a cut-off date and inform publicly that people moving in the project area, and/or altering their assets will not be entitled to any compensation and assistance.
- (xii) Conduct regular monitoring and reporting of the social and resettlement safeguards performance and take corrective actions as needed.

1. Eligibility

57. All AHHs are eligible for compensations and assistance depending on types of losses and legal status of the lands and assets they have been using. Lack of legal/legalizable rights to lands and assets do not ban the AHHs from receiving compensations at least for all losses other than land and when relevant additional assistance allowances. As per ADB SPS involuntary restatement requirements, AHHs without legal /legalizable rights to land or any recognizable legal rights to land are eligible for resettlement assistance and compensation for losses of all non-land assets and incomes.

58. AHHs eligible for compensation and rehabilitation assistance under the program are:

- (i) AHHs who have certified and/or formal rights to use the occupied land;

- (ii) AHHs who do not have formal legal rights to land at the time of the DMS or census completions but have legitimate right to claim to such land or assets—provided that such claims are recognized under the laws of Georgia;
- (iii) AHHs who have no legal possession or not eligible to claim for recognizable legal right to the land they occupy.

2. Establishment of Cut-Off-Date

59. AHHs' eligibility for compensations and assistance will be limited by a cut-off date, as defined 7 September 2022 as declared on the last day of public consultations in the project villages upon conducted LAR impact assessments, Detail Measurement Survey (DMS), during June and September 2022 in preparation of this LARP. On updating this LARP based on the project detailed design, any new impact to the DED shall be identified and new cut-off date will be set and announced for any new impact due to the DED. The announcement of the cut-off date will inform the public and AHHs that anyone who will settle in the project affected areas and/or construct/alter any buildings or business after the cut-off date will not be eligible for compensation of the incurred costs and assistance allowances by the project. However, they shall be given the notice to vacate premises and dismantle affected structures. The dismantled materials will not be expropriated and the AHHs will not pay any fine or suffer any sanction. The AHHs that have been proven living or having livelihoods activities in the project impacted area but were not identified during the preparation of the final LARP, and/or newly identified AHHs due to changes in the project design will be entitled for compensation and if eligible, also for assistance allowances.

3. Payments of compensations before displacement

60. PIU will plan all LAR activities to ensure that all AHHs will receive full compensations and if eligible also allowances before imposing servitude on their lands and commencement of the construction works. PIU will prepare and submit the LARP compliance implementation report to ADB for review and approval before issuing no-objection for commencement of construction works in LAR affected areas.

4. Payments of compensations before displacement

61. All AHHs with unregistered/legalizable land/property rights, will be entitled to compensation of all losses, in the same principle as those with legal registered rights. PIU will assist these AHHs to register/legalize their land rights as required by law.

E. Entitlement Matrix

62. Compensations and assistance allowances to individual AHHs will depend on their lost assets, the severity of impacts and individual social and economic conditions and vulnerability. The Entitlement Matrix (EM) in this LARP envisages provisions about compensations and additional assistance allowances for eligible AHHs (Table 5.2).

Table 5.2. Entitlement Matrix

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
Land			
Agricultural Land: Permanent landloss, access or damage.	AHHs losing productive land regardless of impact severity	<u>Registered Owner/Legal:</u> Owner with full registration	Cash compensation at full replacement cost based on current market value. If the residual plot becomes unviable for cultivation, the project will acquire it if the owner so desire.
		<u>Legalizable Owner:</u> (APs with title formalization pending and APs who are not registered but legitimately use the land and have residential land or agricultural plots Adjacent to the residential land)	The ownership rights of these APs will be recognized, the land registered in NAPR and the APs provided with cash compensation at full replacement cost. Registration costs will be paid by the Project.
		<u>Non-legal/Informal Settler:</u> APs that are not legitimate land users or squatters	Non-legalizable APs losing agricultural land plot, which is the only land plot owned by AH and provides main source of income for AH, will be compensated with one-time allowances in cash equal to 6 months of subsistence wage for an average consumer ¹¹
		Agricultural Tenant	Full Compensation of income of lost crops x the remaining years (up to 4 years) of lease. In case of tenancy no crop compensation will be given to the land owner.
Non-Agricultural Land	AHHs losing their commercial/ residential land	<u>Registered Owner/Legal:</u> (Owner with full registration)	Cash compensation at full replacement cost.
		<u>Legalizable Owner:</u> (The owners legalizable according to active legislation)	The ownership rights of these APs will be recognized, the land registered in NAPR and the APs provided with cash compensation at full replacement cost. Registration costs will be paid by the Project.
		<u>Non-legal/Informal Settler</u> (Without registration/valid documents using land permanently.)	Non-legalizable APs losing land plot, which is the only land plot used for residence or providing main source of income for AH, will be compensated with one-time self-relocation allowances in cash equal to 1 year of subsistence wage for an average consumer.
Temporary Impact on land plot	AHHs lose crops/livelihoods on productive land	During construction works	Temporary land impacts will be compensated based on the productive value of the plot during the period of impact until their use will be re-established at the pre-impact productive conditions.
Permanent servitude for irrigation systems operation and maintenance,	Land under servitude will not be acquired by the project and can be used by the	<u>Legal and Legalizable land owners</u>	One-time cash compensation to offset the decreased value of the all types of affected land plots due to land use restrictions imposed by servitude establishment. The cash compensation for land affected by servitude shall be based on difference of the market value of the land at present (before the

¹¹ Six-month subsistence wage for an average consumer: the amount will be checked and updated, if required, at the time of compensation, to reflect current rate.

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
causing land use restrictions	AHHs, with certain land use restrictions described in LAR impact section of this LARP. This will diminish the value of lands and shall be compensated.		<p>project) and after the project impact (land use restrictions imposed by servitude), based on valuation of the independent certified valuation specialist for the affected land value.</p> <p>For lands that will be under the servitude, the PIU shall negotiate and sign servitude agreements with the respective landowners according to the Civil Code (envisages covering the costs of land owners if their land/crops and properties will be damaged due to any works for systems operations and maintenance in future).</p> <p>Restore lands to the previous condition at least with the saved top soil;</p> <p>AHHs landowners) whose land plots will be encumbered with 10% or over servitude impact, will be entitled for additional one-time cash assistance allowance for severely AHHs;</p>
Buildings and Structures			
Residential and non-residential structures/assets	Affected structures, including improvements, such as fences, gates, poles etc.	All AHs regardless of their legal ownership/ registration status (including legalizable and Informal Settlers)	Cash compensation for building/structures losses at full replacement costs free of depreciation and transaction costs.
Loss Of Community Infrastructure/Common Property Resources			
Loss of common property resources	Community/Public Assets	Community/Government	Reconstruction of the lost resource/asset in consultation with community and restoration of their functions.
Loss of Income and Livelihood			
Crops	Affected standing or agricultural land used for crops	All APs regardless of legal status (including legalizable and Informal Settlers)	Crop compensation in cash at market rate by default at gross crop value of standing crops or loss crop due to loss of cropping season.
Trees	Trees on affected lands including the vine grapes	All APs regardless of legal status (including legalizable and Informal Settlers)	Cash compensation at market rate on the basis of type, age and productive value of the trees (expected yield of the tree, multiplied by the number of years required to grow a tree of equivalent productivity).
Business/ Employment	Business/ employment loss	All APs regardless of legal status (including legalizable and Informal Settlers)	<p><u>Owner:</u></p> <p>(i) Permanent impact: cash indemnity of 1-year net income or in the absence of income proof, One time an average consumer subsistence allowance in cash up to 12 months;</p> <p>(ii) Temporary impact: cash indemnity of net income for months of business stoppage. Assessment to be based on tax declaration or, in its absence, an average consumer subsistence allowance for months of business stoppage;</p> <p>(iii) Permanent worker/employee: indemnity for lost wages equal to one-</p>

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
			time six-month subsistence wage for an average consumer. Business income shall also cover all individual value- added activities beyond direct consumption/sale of agricultural produce (i.e. informal business activities at household level which are currently unaccounted for due to the lack of economic activity data for the affected populations). There will be a verification process during the LARP implementation to fully account for such activities.
Allowances			
Severe Impacts	>10% income loss	All severely affected AHs including informal settlers	Agricultural income: 1 additional crop compensation for 1 year's yield of affected land and/or, for other incomes: an allowance covering six-month subsistence wage for an average consumer
Relocation/ Shifting	Transport/ transitional costs	All AHs to be relocated	An allowance covering transport and livelihood expenses for the transitional period (200 GEL as vehicle hire charge + six-month subsistence wage for an average consumer).
Vulnerable People Allowances		Households who might disproportionately suffer or face the risk of being marginalized from LAR impacts, such as (i) female-headed households with and/or without dependents; (ii) disabled household heads; (iii) poor households as defined by the official poverty line; (iv) elderly households with no means of support; (v) households without security of tenure; (vi) cultural or ethnic minorities; and (vii) refugees or internally displaced people.	Six-month subsistence wage for an average consumer and employment priority in project- related jobs where feasible. Additional assistance in kind will be provided to facilitate relocation or transition – this may include (logistics, relocation planning, assistance with replacement housing search, as appropriate).
Any unanticipated impact in project implementation	Includes any temporary/ permanent income	All APs	Compensation to be assessed and paid for identified impacts based on the above provisions and the requirements of SPS 2009.

Affected private lands

63. **Permanent loss of private lands** (agricultural, residential, and commercial): Cash compensation for affected land at replacement cost identified by an independent certified valuation specialist. If the remained part of the affected land that after the impact may be too small and not viable to use as per its purpose or difficult to access, PIU shall acquire the remained (residual land) with the consent of the landowner and compensate it at replacement cost.

64. **Legalizable land parcels.** PIU shall assist the AHHs in registration/legalization of their legalizable land plot, including preparing the cadaster drawings required for legalization of project affected land parcels the AHHs have been using, and all costs covered by PIU. Once legalization and registration of ownership title is accomplished at the NARP, land acquisition will be undertaken and the legalizable AHHs will receive cash compensation at full replacement cost as envisaged for the AHHs with legal titles in the LARP.

65. **Non-legalizable land parcels.** AHHs who are not legitimate land users/have no legalizable legal rights or claims to the land they are occupying, shall be compensated for loss of all non-land assets and incomes.

66. **Permanent land servitude.** One-time cash compensation to offset the decreased value of the all types of affected land plots due to land use restrictions imposed by servitude.

- Cash compensation for land affected by servitude shall be based on difference of the market value of the land at present (before the project) and after the project impact (land use restrictions imposed by servitude), based on valuation of the independent certified valuation specialist for the affected land value.
- AHHs (landowners) whose 10% or more parts of land plots/productive assets will be encumbered servitude impact, will be paid additional one-time cash assistance allowance for impact severity;
- Cash compensation for all affected assets on land (crops, trees, improvements etc.) as per EM provisions;
- PIU shall negotiate and sign servitude agreement with the land owners following the legislation, in particular the Civil Code (26 June 1997, as amended in 2022) that envisages covering the costs of land owners if their land/crops and properties will be damaged due to any works for systems operations and maintenance in future. Only if efforts to negotiate the mutually acceptable.

Loss of trees and crops

67. **Loss of trees.** Cash compensation at market price of income from tree based on type, age, tree-productivity for the number of years needed to regrow the tree to the productive stage. It will be based on income based on an annual yield capacity of a mature fruit bearing tree multiplied by the market price of the fruit (Kg/GEL) and multiplied to the number of years required to grow a new tree to the same productivity age. In addition, each fruit bearing tree will be compensated for purchase of saplings, transportation and planting labor. The formula below is for calculating cash compensation for fruit bearing trees:

$$\{(B \times D) \times C\} + A\}$$

A – Price of sapling of a specific fruit tree, transportation and planting labor

B – Market price of a specific fruit GEL/Kg)

C – Number of years to be compensated

D – Annual yield capacity of a fruit tree (Kg/yr/tree).

- (i) Immature trees. Cash compensation at the replacement cost, including the costs for saplings, planting and growing trees to the same age, to be defined by an independent valuation entity;

- (ii) Timber trees. Cash compensations based on the market value of dry wood volume defined by an independent valuation entity;
- (iii) Decorative trees: Cash compensation based on the market value identified by an independent valuation entity.

68. Additionally, all AHHs regardless of legal land use rights status will have all the felled trees without any deduction from their compensations.

69. **Loss of crops.** Crop compensation in cash at market rate by default at gross crop value of standing crops or loss of crops due to loss of cropping seasons. This was evaluated by market price based on the area and the total current market value of the affected crops. The compensation for the affected annual crops was calculated by lost income method obtained based on the productivity of each species and the current market price of 1 kg of product. The source of statistic of the yield of different annual crops in the project area is the National Statistics Office of Georgia (2022), as well as reference books developed by agro-technicians with the permission of the Ministry of Agriculture of Georgia.

Affected structures

70. Cash compensation shall be paid for affected structures at replacement cost including all costs necessary for constructing the same building/structure and quality at least equal to those affected, based on current market value of materials without deduction of depreciation cost as per replacement cost principle of ADB SPS 2009. In case of partial impacts, full cash assistance to restore the remaining structure will apply or to repair a partially affected structure fully at least to the pro-project impact level. If partial impact/demolition of a section of the building creates the structures' deterioration or safety risks, the entire structure/building shall be acquired and cash compensated including for the affixed assets.

71. AHHs shall be entitled to keep the salvage materials after the demolition of the structures without deduction from compensations. All compensations shall be paid free of any deduction for any fees, costs of salvageable materials, depreciation and transaction costs.

Additional allowances

72. **Severe impact allowance:** For AHHs losing 10% or more of agricultural lands or other income-generating assets (in this LARP if either encumbered by permanently servitude), are entitled for (i) one-time cash assistance allowance equal to six-month subsistence wage for an average consumer (198 Gel x 6 months = 1,188 GEL)¹², and (ii) priority for employing family members in the project construction work.

73. **Vulnerability allowance:** Vulnerable AHs will receive (i) additional one-time cash allowance equal to six-month subsistence wage for an average consumer (198 Gel x 6 months = 1,188 GEL), and (ii) priority for employing family members in the project construction works.

74. **Transportation allowance:** transportation cost sufficient to cover transporting family members, movable assets/belongings (200 GEL based on the estimated cost to be updated in the LARP update).¹³

75. **Land registration.** Land registration costs, any costs and fees for notary services, fees for legalization, and registration at the NAPR, shall be covered by PIU.

¹² 198 GEL is a subsistence wage for an average consumer as of December 2021. The detailed explanation how this subsistence wage was elaborated is presented in Annex 5.

¹³ Georgia: Livable Cities Investment Project for Balanced Development Arrangement of Municipal Park in Dighomi Floodplains in Tbilisi, <https://www.adb.org/sites/default/files/linked-documents/53118-001-rpab-03.pdf>

76. **Exemption from Fees and Taxation.** AHHs shall not be liable for any taxes (income Tax and VAT) associated for cash compensation paid due to LAR impacts envisaged in the LARP. Neither the AHHs shall be liable to pay transaction costs and fees for notary services, legalization, lands sub-division and registration at the NAPR, and fees for bank charges related to compensation payments, which shall be covered by the project and the PIU.

77. **Others unanticipated impact.** Any other unforeseen impacts that may occur during the project implementation, shall be assessed and compensated at replacement cost, as per principles of this LARP, LARF, ADB SPS, and laws of Georgia, whichever is more stringent.

VI. INCOME RESTORATION AND REHABILITATION

78. The project will cause no physical displacement, no acquire lands permanently. The AHHs will receive compensations at replacement cost for their losses, and priority to be engaged in construction works. PIU will include contractual obligations to the Contractor's contract. No other specific income restoration and rehabilitation program are developed related to this LARP.

VII. INSTITUTIONAL ARRANGEMENTS

A. Executing and Implementing Agencies

79. The Ministry of Finance is the executing agency for the Output 1 and MEPA will be the implementing agency for the CSISDP. MEPA implement the project through its existing PIU in Tbilisi.¹⁴ The PIU under the MEPA is the executing agency for output 2. The PIU is currently implementing the Irrigation and Land Market Development Program financed by the World Bank and the Dairy Modernization and Market Access Project financed by the International Fund for Agricultural Development (IFAD).¹⁵ The PIU is fully financed by MEPA utilizing funds provided through donor-financed projects. PIU professional staff are contracted to MEPA as consultants and MEPA finances all PIU operating costs (office space, office administration, vehicles and equipment operating costs, etc.). Staff and operating costs are financed on a shared basis for expenditures applicable to all projects and directly by individual financiers for expenditures specific to each financier's project. The PIU will implement CSISDP on the same basis. Figure 3 shows the organization structure of the PIU including the ongoing World Bank and IFAD projects and CSISDP.

80. The PIU is managed by a Project Director, who is supported by a team of subject matter specialists. The PIU currently has a safeguards specialist for both environmental and social tasks. PIU will employ a dedicated national resettlement safeguard specialist (60 person-months) for the duration of the project to be financed by the project. The PIU will be responsible for updating, endorsing and implementing the LARPs as approved by ADB, and monitoring and reporting to ADB on the project's LAR compliance.

81. The PIU will ensure that all LARP tasks are implemented according to Georgian laws and ADB's SPS including:

- (i) Endorsing the LARP, submit it for ADB's approval, and ensure timely allocation of a budget for LARP implementation;
- (ii) Implementing the approved final LARP and payment of all compensation and assistance to affected households prior to the start of civil works;

¹⁴ All subsequent references to PIU mean the PIU within MEPA and under the authority of MEPA.

¹⁵ The PIU has been implementing the World Bank project since 2015 (including the original project and the 2019 additional financing). It has been implementing the IFAD Dairy Modernisation and Market Access Project since 2018. It also implemented the Agriculture Modernization, Market Access and Resilience Project, which was completed in 2021.

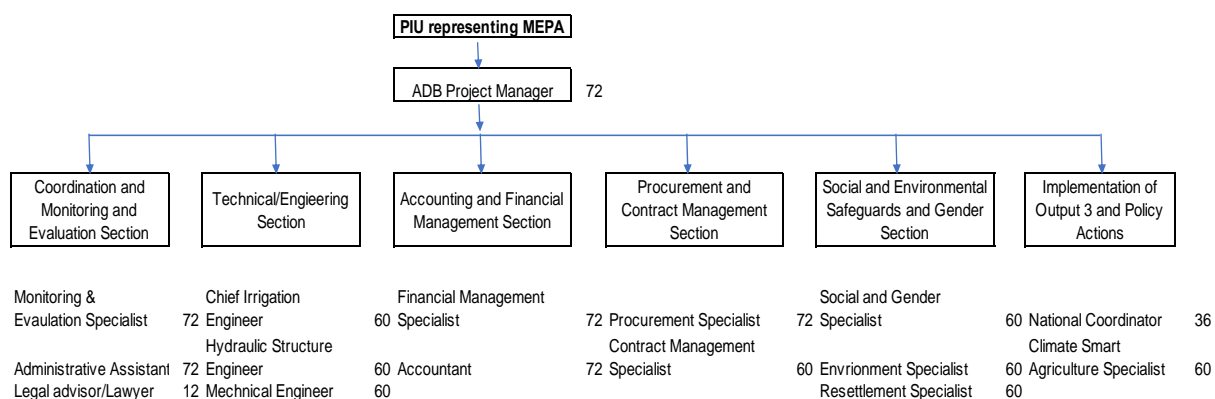
- (iii) Ensuring that no physical or economic displacement takes place until the approved LARP is implemented, all compensation and assistance are paid to affected households;
- (iv) Preparing and submitting a monitoring report on the implementation of the LARP for review and approval by ADB (prior to ADB's clearance for the commencement of the construction works on the impacted lands);
- (v) Disclosing information and engaging in meaningful consultations with AHHs and communities about the project, and involuntary resettlement documents, principles, including the GRM and ADB's Accountability Mechanism under the project;
- (vi) Engaging the licensed valuer and state agencies to update the valuation of affected assets, incomes and livelihoods as required (e.g. if compensation payment is delayed over one year) and ensuring that the valuations are conducted and compensations are paid following the replacement cost principle of ADB's SPS ;
- (vii) Ensuring the project-level GRM is in place and coordinating with the relevant agencies to resolve grievances in a consultative and timely manner;
- (viii) Including in the Contractor's contracts provisions on LAR safeguards measures with which the Contractor shall comply (e.g., reports on grievances and keeping the GRM Logbook, following ROWs during construction works, not interrupting irrigation to farmers' affected lands adjacent to non-impacted lands, informing affected households about the schedule of construction that can affect their farming activity);
- (ix) Monitoring the Contractors' social safeguards performance including implementation of mitigation measures related to temporary land acquisition, ensuring that the Contractor complies with its contractual obligations on LAR safeguards;
- (x) Conducting regular monitoring and preparing semi-annual social safeguard monitoring reports (SMRs), and the LARP implementation compliance report for ADB's approval;
- (xi) Ensuring that the GRM is operational to effectively handle environmental and social grievances and providing access to information and consultation concerns of affected persons;
- (xii) In case of unanticipated temporary and/or permanent involuntary resettlement impact, preparing and endorsing a LARP for the new impact according to national laws and ADB's SPS, implementing it and submitting the LARP implementation report to ADB for review and approval before commencing any physical works on the affected site; and
- (xiii) Any other tasks and correction action plans as may be required to ensure resettlements safeguard compliance according to ADB's SPS and national laws.

B. Project Implementation Consultants

82. A team of international and national project implementation consultants (PIC) will be financed from the ADB project loan to support the PIU to manage the project and implement project activities in relation to Output 2 and 3. The PIC team will include one international Resettlement Specialist and one national Resettlement Specialist over the project period. The PIC specialists will (i) review and endorse any design changes in Area 1 proposed by the Contractor and ensure the LARP is updated accordingly, (ii) finalize the detailed design for Areas 2-4, prepare detail design for Areas 5 and 6, and prepare the LARPs for these areas and the main canal Section 2 according to the proposed contract packaging, (iii) assist the PIU in LARP preparation and updating, and (iv) conduct LAR training in accordance with ADB's SPS for staff of the PIU, GA, contractors and authorities to ensure efficient LARP implementation.

83. The PIC will also assist the PIU in (i) updating and implementing the LARPs according to proposed contract packaging and any design changes, and (ii) LARP implementation and safeguard monitoring and reporting to ADB including preparation of the LARP implementation and compliance report.

Figure 3: Project Implementation Unit Structure



Note:

1. The implementation period is 6 years (72 months) from counting from ADB's approval date.
2. Number in the table indicates personal months required. PIU staff and their costs may be shared with the World Bank and/or European Investment Bank financed projects.
3. The number represents person months.

C. Other Agencies

84. **Representative of Mayor in Local Community.** Community level Representative of Mayor in village is the executive branch of self-government headed by Mayor Representative. Mayor Representative has the primary role in the process of legalization and registration of land parcels. Mayor Representative confirms ownership of affected land plots, parameters of land plots and endorses the cadastral maps and related data prepared for case of legalization. Mayor Representative plays important role for legalization of non-rightful owners (owners in possession before the enactment of current law on privatization of land in Georgia without prior permission of the government). Mayor Representative has power to authorize details of the occupied land parcel and verify its usage pattern as the first-hand verification and authorization for further consideration in the Property Rights Registration Commission (PRRC) as a basic step for registration with the Public Registry. Neighbors of applicants for legalization have roles in the authorization process.

85. **National Agency of Public Registry (NAPR).** NAPR is under the Ministry of Justice will register any changes in land and property titles of AHHs (after the impact), and also transfer the land title through purchase agreement from landowners to the state and MEPA will have right to use it for the project needs.

86. **Local Governments.** Local administration especially at municipal level has direct jurisdiction for land administration, verification of land rights for legalizable land plots registration through engagement of designated officials from the regional administration (Mayor Representative in the village) and representatives of each affected village/community administration (representatives of all affected community/village).

87. **Civil Works Contractor.** Contractor will be responsible for mitigating impacts resulting from the construction activities. The construction activities shall be monitored closely by the PIU to ensure compliance to the temporary mitigating measures. The construction contractor is responsible for fulfilling the obligations set forth by the LARP, preventing damages on private property not covered by the LARP, and if such an event occurs, reimbursing the loss with its own funds. Contractor shall also be obliged to provide compensation to the affected persons if the construction deadline is unreasonably delayed, the supervisor will ensure the compensation to be paid by the construction company. Contractor should register and report about grievances status in monthly progress reports submitted to PIU, the later will reflect this in the semiannual social safeguard monitoring reports that will be submitted to ADB.

88. **NGOs/civil society organizations.** Interested NGOs in the area will participate in monitoring, public consultations and planning and implementing LAR tasks and resolving grievances as needed.

89. **Asian Development Bank.** ADB will guide PIU in (i) preparing final LARP and will approve the final LARP, (ii) review its implementation the social safeguards semi-annual monitoring reports (SMRs), (ii) project review missions to the project sites to ascertain the status of the LARP implementation and involuntary resettlement safeguards performance of the PIU and Contractor, (iii) issue clearance for start of construction works upon compliance LARP implementation, (iv) in case of non-compliances will be identified, guide PIU in taking corrective actions following the final LARP and safeguard covenants of financing agreement and documents and SPS.

VIII. GRIEVANCE REDRESS MECHANISM

A. Project-level Grievance Redress Mechanism

90. PIU will set up a project-level Grievance Redress Mechanism (GRM) following the ADB's SPS and laws of Georgia to resolve grievances and issues raised by the project affected persons related to the project's resettlement and environmental impacts and consultations and information disclosure.

91. PIU has overall responsibility for the well-functioning of the GRM during the project duration and evaluation, inform about it the AHHs in the project area, and resolve grievances in efficient and mutual consensus manner. will involve relevant agencies and independent experts as needed by cases. National Resettlement Specialist engaged through PIC to support PIU will serve as the GRM focal person. A two-tiers project GRM is proposed:

92. **Tier 1 at local level:** PIU will form a Grievance Redress Group (GRG) at the local level in the municipality. GRG members include the (i) PIU Safeguard Specialist for the project, (ii) representatives from municipality authorities, (iii) Contractor's safeguard specialists (social and environmental safeguard specialist, OHS specialists), (iii) safeguard specialist of the CSC and the PIC, (iv) representatives from the GA, and (v) at least one member should be from the village of the person who submitted the grievance (assuming all are not family members), and/or NGO. Other experts such as valuers, accountants, attorneys, and so on shall be invited as case may require.

93. This GRG shall put efforts to resolve the complaints at local level and consultation with the complaining parties. GRG shall conduct investigations and require documents from the stakeholders including the AP for any documents supporting the claim, as needed. At this stage, after the grievance is received and registered, GRG will consider the grievance to resolve it quickly within 10 days or maximum 30 days according to Administrative Code, in consultative manner with the person who made the complaint. Minutes of discussions and decisions shall be recorded and signed by GRG members. If the grievance is not resolved at this stage, it will proceed to Tier 2. Also, if the person who made the complaint does not agree to the decision and or actions of GRG in Tier 1, the complaint will go to Tier 2.

94. **Tier 2 at PIU level.** At Tier 2, a Grievance Redress Commission (GRC) will be set at PIU's central level, represented by (i) PIU's Manager, Safeguard Specialist, (ii) Resettlement Specialist contracted by PIC, (iii) engineers and representatives of GA, (iv) municipality, (v) NGO/civil society and community based organizations (as available). Other relevant agencies will be engaged as experts as individual cases can require. The GRC shall resolve the grievances within 30 days in consultative manner with the person who made the complaint.

95. PIU shall coordinate with respective agencies and formalize setting the GRG and GRC at both tiers, with nominated representatives of respective agencies and stakeholders. The national resettlement safeguard specialist contracted through PIC Supervision Consultant under the PIU will be a focal person for registering and handling the grievances, coordinating their resolution with the GRC, ensure that all grievances and their resolution status will be documented in the Grievance Logbook at the offices of the Contractor, local authorities, monitored and reflected in the project's progress reports.

96. If the project-level GRM will not be able to resolve the grievance or the complaining party is not satisfied with the decision, it shall be resolved as per law and court order of Georgia, which will be outside of the project GRM scope. The project GRM should not impede access to the country's judicial or administrative remedies. The aggrieved persons reserve their rights to appeal to the Court of Georgia at any stage of grievance resolution.

97. Also, if not satisfied with the resolution of the issue by project-level GRM, the complaining party can send complaint to ADB's Accountability Mechanism discussed below, after making good faith efforts to resolve the grievance by the project-level GRM.

98. Accessibility and awareness of the AHHs and persons about the GRM is important for its effective functioning. During the project implementation, PIU shall inform the project AHHs and communities about the project GRM and contact information of responsible persons (e.g. staff of PIU, contractor, local authorities, and ADB Georgia Resident Mission's Safeguard Officer) for the project GRM (through public consultations, individual meetings, information leaflets, local media with approaches to facilitate participation of women and vulnerable groups). This will ensure that people are aware about the project-level GRM and have contact information of responsible staff if they have inquiries or grievances. Consultation about the GRM shall be in language of affected households and persons.

99. At this stage, the APs may submit their concerns and complaints to the following address. This contact information shall be updated during the project implementation and as soon as the PIC and CSC will be in place and the GRG will be established.

Ministry of Environmental Protection and Agriculture of Georgia

Address: Didube Bus Terminal 4 Transport Street, Tbilisi, Georgia, Hot line 1501; Telephone + 995(32) 2 47 01 01+ 995(32) 2 37 80 09
E-mail: info@mepa.gov.ge

B. ADB's Accountability Mechanism

100. Affected households and people in the project areas shall also be informed about the ADB's Accountability Mechanism, and that they should at first put good faith efforts for resolving the complaints on the project level-GRM and the project implementing agencies in the country. Two or more affected households (can be from the same family) can submit their complaint to the ADB's Accountability Mechanism (AM). The AM is a last resort mechanism. The project-affected households shall first address the issue with the project-level GRM, and then they shall make good faith efforts to address the issue with the relevant ADB operations department. Certain complaints will not be eligible, such as:

- about actions not related to something ADB did or not do in formulating, processing, or implementing an ADB-assisted project;
- about an ADB-assisted project for which two or more years have passed since the loan or grant closing date;
- about matters those complainants have not made good faith efforts to address with the operations department concerned; and
- about decisions made by ADB, the borrower/executing agency, or the private sector client on the procurement of goods and services, including consulting services; and allegations of fraud or corruption in ADB-assisted projects (these will be managed by other facilities).

101. The complaint may be submitted by mail, fax, email, or in-person:

Complaint Receiving Officer (CRO), Accountability Mechanism

Asian Development Bank Headquarter, 6 ADB Avenue, Mandaluyong City 1550, Metro Manila, Philippines ([+632\) 632-4444 loc. 70309](tel:+6326324444) (+632) 636 2086 amcro@adb.org

102. Alternatively, complaints may be submitted through ADB office in Tbilisi,¹⁶ which will forward the complaint to the CRO.

¹⁶ Address: 1 Galaktion Tabidze St, Tbilisi, Georgia

IX. CONSULTATION, PARTICIPATION AND DISCLOSURE

A. Public Consultations

103. ADB's SPS requires that AHHs must be meaningfully consulted and have opportunities to participate in resettlement planning, compensation options and LARP implementation. Public consultations and disclosure should be carried out also following national laws. In preparation of this LARP, 4 public consultations were conducted in four project communities on 6-7 September 2022. In total 67 persons participated (including 16 or 24% women), although the information about the public consultations were disseminated through the local municipalities four days before the consultations dates. In addition, APs were consulted individually during the APs' census, social-economic surveys and inventory of loss assets in each land plot during June-September 2022. Power Point presentation about the project, expected LAR scope and compensation and mitigation measures as per the draft LARP, GRM and contact information, and ADB's Accountability Mechanism (AM) and criterion for filing grievance to the ADB AM, were presented. The questions raised were about the project design and timeline: (i) when modernization works will start and be completed, and (ii) request to include the other areas in the project design (Table 9.1). List of participants and photos from public consultations are in Annex 6.

104. LAR information booklets in Georgian language were distributed to participants (Annex 7). The APs have also been individually consulted during LAR impact assessment, APs census and socio-economic surveys conducted during June to August 2022. The APs were informed about accessing the copies of LAR booklets left in the offices of the village administrations or by contacting the PIU through the given contact information.

Table 9.1. Questions and response

#	Key issues	Responses
1	What about unregistered lands?	The unregistered/legalizable land will be compensated at the same principle as registered lands. The PIU will assist the respective AHHs with registration/legalization of their unregistered land plots (i) covering the registration costs, and (ii) facilitation with the registration authority (NAPR) following the state the process of registration/legalization of unregistered/legalizable lands, as in Annex 9.
2	When is planned the project implementation? When the works will start and completed?	It is not known exactly yet. The project has to be approved by ADB and the Government, and tender process shall be carried out. Might be in one or 1,5 years. You will be informed through new consultations about the project timelines.
3	What will be diameters of the pipes?	Approximately 110-300 mm diameters in the secondary and tertiary channels, and 600-700 mm diameters for the main pipelines. This to be confirmed by the detail designing. Detail design not prepared yet.
4	The existing system is old and wastes a lot of water. In some sites lots of water spilled on ground surface while in other sites unavailable.	The proposed project modernization works aiming to address this issue.
5	The land plots in upper part of the village are not covered by the project. During Soviet time pumps worked which are broken now. Farmers use drinking water for irrigation. We request you to cover in the future modernization works that part too. If modernization works will be done there, drinking water will not be wasted.	The project design include proposed works in these 6 Areas of irrigation distribution networks we have presented to you. We will take note of this request and reflect in our reports for any future interventions of MEPA or GA in your area.
6	Who is implementing agency	Existing PIU under the MEPA. At operational stage will be managed by GA.
7	What can stop the project besides any tender issues?	The project will be studied financially and technically, and any risks will be measures before approval and implementation.

105. PIU will ensure information disclosure and meaningful consultation held throughout the project implementation. ADB will disclose the approved safeguard documents (LARF, LARP, social monitoring reports, and others as relevant) in its website in English. PIU will disclose these safeguard documents in its website in Georgian language.

X. MONITORING AND REPORTING

A. Overview

106. ADB SPS requires the borrower/client to monitor and assess resettlement outcomes and impact on the standards of living of the AHHS. The monitoring will assist to assess the progress of implementation of the LARP, grievances resolution, identify any unanticipated involuntary resettlement impact and take corrective actions on-time to avoid delays in the project implementation. PIU shall ensure regular monitoring during the project implementation and submitting the semi-annual monitoring reports to ADB for review and clearance. The monitoring requirements shall be based on the scope of the involuntary resettlement impact of the program. According to the scope of anticipated LAR impact at the project preparation stage, PIU shall conduct an internal monitoring and submit to ADB semi-annual social safeguard monitoring reports throughout the project implementation.

B. Internal Monitoring and Reporting

107. PIU will conduct regular internal monitoring and provide Semi-Annual Monitoring Reports to ADB for review and approval for the entire duration of the project to monitor and report on any emerging LAR issues and complaints during the project implementation. The approved monitoring reports will be posted on ADB's website. To confirm completion of specific milestones in LARP implementation, the PIU will submit to ADB for review and approval (i) SMRs during the program implementation, (ii) one LARP implementation compliance report upon the LARP implementation, and disbursement of compensation payments as well as payment of allowances to eligible affected households, which will be one of the conditions for allowing construction works to commence in the areas/components with LAR impacts, (ii) one land restoration completion report at the end of construction to confirm if land is restored and affected households wherever relevant are able to resume their livelihood/agricultural activities. At the end of the project, a LARP completion and evaluation report should be prepared summarizing the experience in the entire program.

108. The indicators to be used for monitoring include (i) payment of compensations and assistance according to the Entitlement Matrix, (ii) information disclosure and meaningful consultations and participation, (iii) grievance redress, (iv) budget and timeframe, and (v) other provisions of the final LARP. The monitoring reports shall reflect the progress in compensation payments and implementation of the LARP up-to-date, as well as any problems encountered and suggestions for corrective actions. ADB will review the monitoring reports and when approved, will issue a notice to proceed with the construction works.

109. Information for monitoring will be collected directly from the field through AHHS' about the progress of LARP implementation including (i) payment of compensations and assistance according to the Entitlement Matrix, (ii) information disclosure and meaningful consultations and participation, (iii) grievance redress status, (iv) budget and compensation payment timeframe, and (v) any unanticipated LAR impact identification, (vi) information and consultations, and as per other issues and provisions of the final LARP. Consultant will assist the PIU in monitoring and reporting the LARP implementation, and as needed implement corrective actions as needed. PIU will inform promptly ADB about (i) any unanticipated impacts arise during the project implementation or operation (information shall include a detailed description of the event and proposed corrective action plan); and (ii) any

incurred or potential breach related to LARP compliance implementation with the proposal of measures and actions to address the breach.

XI. RESETTLEMENT BUDGET

110. The LARP budget is estimated 1,013,518 (361,262).¹⁷ This includes costs for (i) compensations of all losses in private and state lands and assistance allowances to AHHs, (ii) administrative costs 10%, (iii) valuation cost, (iv) unregistered land plots registration/legalization cost, and (v) 10% contingency for any unanticipated LAR task. PIU will cover all LARP budget from the government funds, and ensures timely allocation of the LARP budget for on-time LARP implementation overall. Breakdowns of the LARP costs are in tables 14 to 18, which costs include overall the compensation costs for all LAR impacts including the loss of crops, trees and structures (details of impacts and compensations are in Annex 11). Table 11.1 below provide budget summary.

111. **Compensation for servitude in private land.** It is estimated at 136 247,80 GEL (Table 11.1). The rate was defined by an independent valuation specialists engaged by the TRTA in preparation of the draft LARP. The valuation methodology is in Annex 15 and shall be reviewed as needed and reflected in the update of the LARP. All the affected land plots are vineyards lands. Details of land compensations for servitude in Annexes 11 and 12.

Table 11.1. Lands

Property type	No. of plots	Affected area sqm	Land value, 1sqm, GEL	Servitude 30% of value of 1 sqm, GEL	Compensation amount, GEL
Private JSCs/LTD	24	6 011,52	4,30	1,29	7 754,86
Private lands	1082	99 606 ,93	4,30	1,29	128 492,93
Total	1106	105 618,44			136 247,79

112. **Compensation of crops.** Crop loss is estimated **28100** GEL (Table 11.2).

Table 11.2. Crops

Type	Crop area sqm	Yield (kg)	Price, 1 kg, GEL	Compensation/ one-year harvest (GEL)
Barley	169,00	5 000,00	0,65	3 250
Corn	8 663,00	10 000,00	0,65	6 500
Sunflower	69,00	2 000,00	2,50	5 000
Watermelon	500,00	25 000,00	0,45	11 250
Wheat	3 290,00	3 500,00	0,60	2 100
Total	12 691,00	45 500,00	4,85	28 100

113. **Compensation of structures.** Compensation for structures is estimated at 87 580,80 GEL including for poles and wires 76,780.80 and for boards 10,800 GEL (Table 11.3).

Table 11.3. Structures

Type	Area sqm	Quantity	Unit price, GEL	Compensation amount, GEL	AHs (double count)
poles (pieces)	30 086,12	4 800	10,00	48 000,00	191
wiring (meter)	30 086,12	71 952	0,40	28 780,80	191
fences	27	14	800	10 800	3
Total				87 580,80	94

¹⁷¹ USD = 2,8055 GEL as per rate of the National bank of Georgia, accessed on 6 October 2022. <https://nbg.gov.ge/en>.

114. **Compensation of trees.** Compensation for loss of all trees is estimated **413,209** GEL including 391,101 GEL for grape trees and 22 108 GEL for other trees (Tables 11.4-11.5).

Table 11.4. Compensation for vine grape trees (no immature trees)

#	Type	sqm area	quantity	age	yield (kg)	average yield (kg)	price (1 kg), GEL	sum	No. of seedlings	price of 1 seedling	Amount, GEL	total compensation, GEL	price (1piece)	No. of owners
1	grape tree	174,68	98,00	8,00	700,00	7,14	1,00	700,00	98,00	12,00	1 176,00	1 876,00	19,1429	8,00
2	grape tree	719,98	403,00	9,00	2 880,00	7,15	1,00	2 880,00	403,00	12,00	4 836,00	7 716,00	19,1464	1,00
3	grape tree	1 007,83	567,00	10,00	4 032,00	7,11	1,00	4 032,00	567,00	12,00	6 804,00	10 836,00	19,1111	10,00
4	grape tree	3 804,70	2 132	11,00	15 220,00	7,14	1,00	15 220,00	2 132,00	18,00	38 376,00	53 596,00	25,1388	9,00
5	grape tree	283,63	158,00	12,00	1 136,00	7,19	1,00	1 136,00	158,00	18,00	2 844,00	3 980,00	25,1899	9,00
6	grape tree	4 039,56	2 264	13,00	16 153,00	7,13	1,00	16 153,00	2 264,00	18,00	40 752,00	56 905,00	25,1347	7,00
7	grape tree	1 332,17	748,00	14,00	5 336,00	7,13	1,00	5 336,00	748,00	18,00	13 464,00	18 800,00	25,1337	12,00
8	grape tree	1 452,34	802,00	15,00	5 820,00	7,26	1,00	5 820,00	802,00	18,00	14 436,00	20 256,00	25,2569	5,00
9	grape tree	1 274,49	714,00	16,00	5 425,00	7,60	1,00	5 425,00	714,00	18,00	12 852,00	18 277,00	25,5980	11,00
10	grape tree	1 865,80	1 046	17,00	7 468,00	7,14	1,00	7 468,00	1 046,00	18,00	18 828,00	26 296,00	25,1396	21,00
11	grape tree	1 770,69	994,00	18,00	7 080,00	7,12	1,00	7 080,00	994,00	18,00	17 892,00	24 972,00	25,1227	17,00
12	grape tree	1 399,60	786,00	19,00	5 604,00	7,13	1,00	5 604,00	786,00	18,00	14 148,00	19 752,00	25,1298	10,00
13	grape tree	279,24	156,00	20,00	1 116,00	7,15	1,00	1 116,00	156,00	14,00	2 184,00	3 300,00	21,1538	3,00
14	grape tree	1 583,94	888,00	21,00	5 637,00	6,35	1,00	5 637,00	888,00	14,00	12 432,00	18 069,00	20,3480	10,00
15	grape tree	2 296,72	1 286	22,00	9 188,00	7,14	1,00	9 188,00	1 286,00	14,00	18 004,00	27 192,00	21,1446	7,00
16	grape tree	1 638,64	918,00	23,00	6 548,00	7,13	1,00	6 548,00	918,00	14,00	12 852,00	19 400,00	21,1329	9,00
17	grape tree	1 320,41	739,00	24,00	5 008,00	6,78	1,00	5 008,00	739,00	14,00	10 346,00	15 354,00	20,7767	14,00
18	grape tree	628,26	350,00	25,00	2 516,00	7,19	1,00	2 516,00	350,00	14,00	4 900,00	7 416,00	21,1886	8,00
19	grape tree	1 388,96	778,00	26,00	5 552,00	7,14	1,00	5 552,00	778,00	14,00	10 892,00	16 444,00	21,1362	5,00
20	grape tree	439,58	246,00	27,00	1 760,00	7,15	1,00	1 760,00	246,00	14,00	3 444,00	5 204,00	21,1545	2,00
21	grape tree	311,06	176,00	28,00	1 244,00	7,07	1,00	1 244,00	176,00	14,00	2 464,00	3 708,00	21,0682	8,00
22	grape tree	238,95	134,00	29,00	956,00	7,13	1,00	956,00	134,00	14,00	1 876,00	2 832,00	21,1343	3,00
23	grape tree	753,12	422,00	30,00	3 012,00	7,14	1,00	3 012,00	422,00	14,00	5 908,00	8 920,00	21,1374	2,00
Total:		30 004,35	16 805		119 391,00	7,10		119 391,00	16 805,00		271 710,00	391 101,00		191,00

Table 11.5. Compensation for other fruit trees, GEL

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Apple	133,44	1,00	7,00	25,00	1,50	37,50	1,00	210,50	210,50	248,00	248,00	1,00
2	Apple	228,37	4,00	8,00	25,00	1,50	37,50	4,00	210,50	842,00	879,50	219,88	6,00
3	Apple	178,66	4,00	10,00	25,00	1,50	37,50	4,00	210,50	842,00	879,50	219,88	8,00
4	Apple	111,92	3,00	12,00	70,00	1,50	105,00	3,00	475,00	1 425,00	1 530,00	510,00	2,00
Total:		652,40	12,00		145,00		217,50	12,00		3 319,50	3 537,00		17,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Cherry	138,80	1,00	5,00	15,00	3,00	45,00	1,00	103,00	103,00	148,00	148,00	5,00
Total:		138,80	1,00		15,00		45,00	1,00		103,00	148,00		5,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Fig	37,73	1,00	8,00	10,00	2,00	20,00	1,00	85,00	85,00	105,00	105,00	2,00
Total:		37,73	1,00		10,00		20,00	1,00		85,00	105,00		2,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Mulberry	0,90	1,00	5,00	4,00	1,50	6,00	1,00	18,00	18,00	24,00	24,00	1,00
2	Mulberry	13,57	1,00	12,00	18,00	1,50	27,00	1,00	109,00	109,00	136,00	136,00	1,00
3	Mulberry	45,32	1,00	20,00	11,00	1,50	16,50	1,00	108,50	108,50	125,00	125,00	1,00
Total:		59,79	3,00		33,00		49,50	3,00		235,50	285,00		3,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Nut		1,00	8,00	15,00	5,00	75,00	1,00	660,00	660,00	735,00	735,00	3,00
2	Nut	0,08	1,00	10,00	15,00	5,00	75,00	1,00	660,00	660,00	735,00	735,00	1,00
3	Nut	35,91	3,00	15,00	25,00	5,00	125,00	3,00	920,00	2 760,00	2 885,00	961,67	7,00
4	Nut	105,39	1,00	17,00	25,00	5,00	125,00	1,00	920,00	920,00	1 045,00	1 045,00	1,00
5	Nut	11,41	1,00	20,00	25,00	5,00	125,00	1,00	920,00	920,00	1 045,00	1 045,00	2,00

6	Nut	18,17	2,00	22,00	30,00	5,00	150,00	2,00	1 095,00	2 190,00	2 340,00	1 170,00	4,00
7	Nut	1,35	1,00	23,00	30,00	5,00	150,00	1,00	1 095,00	1 095,00	1 245,00	1 245,00	3,00
8	Nut	1 024,17	1,00	25,00	30,00	5,00	150,00	1,00	1 095,00	1 095,00	1 245,00	1 245,00	1,00
9	Nut	171,92	3,00	27,00	30,00	5,00	150,00	3,00	1 095,00	3 285,00	3 435,00	1 145,00	1,00
Total:		1 368,40	14,00		225,00		1 125	14,00		13 585	14 710		23,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Peaches	144,34	1,00	8,00	25,00	1,00	25,00	1,00	110,00	110,00	135,00	135,00	1,00
2	Peaches	475,82	1,00	9,00	25,00	1,00	25,00	1,00	110,00	110,00	135,00	135,00	1,00
Total:		620,16	2,00		50,00		50,00	2,00		220,00	270,00		2,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Pear	18,30	1,00	20,00	60,00	1,50	90,00	1,00	345,00	345,00	435,00	435,00	1,00
Total:		18,30	1,00		60,00		90,00	1,00		345,00	435,00		1,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Plum	983,67	41,00	10,00	15,00	1,	15,00	41,00	48,00	1 968,00	1 983,00	48,37	3,00
2	Plum	332,10	1,00	20,00	30,00	1,00	30,00	1,00	66,00	66,00	96,00	96,00	1,00
Total:		1 315,77	42,00		45,00		45,00	42,00		2 034,00	2 079,00		4,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Quince	7,29	1,00	25,00	30,00	2,00	60,00	1,00	125,00	125,00	185,00	185,00	1,00
Total:		7,29	1,00		30,00		60,00	1,00		125,00	185,00		1,00

#	Type	sqm area	quantity	age	yield (kg)	price (1 kg)	sum	No. of seedlings	price of 1 seedling	sum	total amount of compensation	price (1piece)	number of owners
1	Tkemali	35,71	1,00	24,00	11,00	1,00	11,00	1,00	67,00	67,00	78,00	78,00	1,00
2	Tkemali	39,19	1,00	17,00	40,00	1,00	40,00	1,00	146,00	146,00	186,00	186,00	1,00
Total:		74,90	2,00		51,00		51,00	2,00		213,00	264,00		2,00
Grandtotal											22 108		

115. **Allowances for severe affected and vulnerable AHHs.** Severely AHHs in this LARP are 19 AHHs whose lands will be affected by servitude (hence permanent land use restriction) at 10% or more. They will be paid one-time cash allowance based on the average consumer amount multiplied on six-months: $198.1 \times 6 = 1,188$ GEL (total cost 22527 GEL). The identified 4 vulnerable AHHs will be paid one-time cash assistance 1,188 GEL each ($198 \text{ GEL} \times 6$ months). The total cost will be 4752 GEL. Also the severely affected and vulnerable AHHs will be given priority for employment in the project construction works (Table 11.6).

Table 11.6. Allowance costs

Description	Unit price, GEL	Number	Total cost, GEL
Sever impact allowance	1188	19	22527
Vulnerability allowance	1188	4	4752

116. **Assets transportation and land registration cost.** One-time additional cash allowance 200 GEL for transportation of their affected poles, wires and fences: for 194 AHHs the total cost 38,800 GEL (Table 17). Cost for land registration is estimated 200 GEL per plot (Table 18) based on the estimated cost to be updated in the LARP update.¹⁸

117. and for 183 unregistered land plots, it is estimated at 36600 GEL (Table 11.7).

Table 11.7. Transportation and land registration costs

Description	Unit price, GEL	Number	Total cost, GEL
Transportation cost	200	194	38800
Land plot registration cost	200	183	36600

118. **Cost for updated valuation:** All costs shall be updated during the update of LARP, including for new impacts, if any. An updated valuation of losses of AHHs shall be carried out by an independent valuation entity to be engaged by the PIU (76 787 GEL is budgeted hereto).

119. Table 11.8 presents the summary of LARP budget. The total tentative LAR cost amounts to 1,013,518 GEL (equal to 361,262USD¹⁹) subject to update in the final LARP based on DED. The consolidated list of AHHs and impacts, and compensation and assistance allowance amounts are given in Annex 14.

¹⁸ Georgia: Livable Cities Investment Project for Balanced Development Arrangement of Municipal Park in Dighomi Floodplains in Tbilisi, <https://www.adb.org/sites/default/files/linked-documents/53118-001-rpab-03.pdf>

¹⁹ USD = 2,8055 GEL as per rate of the National bank of Georgia, accessed on 6 October 2022. <https://nbg.gov.ge/en>.

Table 11.8. Budget summary

Description	Total, GEL
A. LAR cost	
Compensation for land servitude impact	136248
Compensation for crops	28100
Compensation for trees	413209
Compensation for structure	87581
Subtotal A	665138
B. Assistance Allowances	
Transportation cost allowance	38800
Registration/legalization cost	36600
Severe impact allowance	22527
Vulnerability allowance	4752
Subtotal B	102679
Subtotal A+B	767 817
B. Administrative cost (10%)	76 782
C. Valuation costs (Updating LARP, 10%)	76 782
Subtotal A+B+C	921 380
Contingency 10% (subtotal A+B+C)	92 138
Total (Subtotal + 10% contingency)	1 013 518

XII. IMPLEMENTATION SCHEDULE

120. MEPA PIU will update the LAR impact and prepare a final-implementation ready LARP after the project approval and before construction works based on the final DED, for review and approval by ADB. The LARP implementation will start after the MEPA PIU endorses and ADB approves the final LARP. MEPA PIU will plan all LAR activities to ensure that all AHHs will receive full compensations and allowances before acquiring their lands and commencement of the construction works. MEPA PIU will ensure information disclosure, meaningful consultations with AHHs (considering the COVID-19 situation and control measures), monitoring the LARP implementation, and grievance redress throughout the project implementation. Construction works will start after the AHHs will receive full compensations and assistance. MEPA PIU will prepare and submit the LARP compliance implementation report to ADB for review and approval before ADB issues no-objection for commencement of construction works in LAR affected areas.

A. Updating the LARP based on the Detailed Design

121. MEPA PIU will be responsible to update and finalize the draft LARP before construction work based on the DED, including: (i) confirming the impact area/final impact assessment; (ii) conducting the DMS; (iii) updating the list of AHHs, IOL, SES; (iv) updating compensation rates and assistance allowances, and LARP budget; (v) conducting project information/documents disclosure, meaningful consultations and information about the GRM to AHHs and communities; (vi) conducting official valuation by valuation entity of all losses of AHHs and updating the compensation amount to AHHs by an independent valuation entity (valuation services cost paid by Project/MEPA), and (viii) conducting monitoring and preparing monitoring reports. MEPA PIU will endorse the updated final LARP and submit it to ADB for

review and approval. Upon the ADB's approval, ADB will disclose it on their websites. MEPA PIU will disclose it also to the AHHs and communities. The updated LARP shall also identify all problematic cases (including unregistered lands) and assist APs in resolution. The updated LARP may consider sections implementation (update) approach if deemed feasible and agreed with the contractor.

B. LARP Implementation

122. The LARP implementation will start after the ADB's approval of the final LARP. During the project implementation, finalizing and implementing the approved final LARP, MEPA PIU will inform the AHHs about their rights and compensation options and clarify any issues and concerns the AHHs may have. PIU will ensure the project-level GRM will be in place throughout the project implementation.

123. The LARP implementation will start after the PIU endorses and ADB approves it. PIU will plan all LAR activities and implement the approved LARP, to ensure that all AHHs will receive full compensations and allowances before acquiring their lands and starting the construction works. Commencement of civil works at the subproject(s) with LAR impact will be conditional to the full implementation of the updated final approved LARP for the impacted lands as verified in a social safeguard monitoring report and LARP implementation compliance report, prepared by PIU and approved by ADB.

124. PIU will inform the AHHs about their rights and compensation options and clarify any issues and concerns the AHHs may have, and sign compensation agreements with AHHs. In case of unregistered land plots, the PIU will assist the respective AHHs with registration/legalization of their unregistered land plots (i) covering the registration costs, and (ii) facilitation with the registration authority (NAPR) following the process of registration/legalization of unregistered/legalizable lands, as in Annex 9.

125. PIU will transfer the compensation and assistance allowance amounts to the bank account of each AHH according to the bank payment information provided by the AHHs. If any of the AHHs do not have bank account, the PIU shall guide such AHHs and facilitate the opening the bank account for him/her. PIU will individually inform the AHHs about the time of payment of compensation and assistance allowances into their account. AHHs at own discretions can keep the compensation and assistance allowance amounts in their bank accounts, or withdraw it fully or partially at any time right after the compensation payments' transfers or later.

126. In case of absentee and/or deceased AHHs, and/or other legitimate reasons the AHHs are not able to receive compensation (and assistance allowances for eligible AHHs), the pending compensation payment shall be deposited on the relevant bank's escrow accounts opened by the request of the PIU.

127. PIU will prepare and submit the LARP compliance implementation report to ADB for approval before issuing no-objection to start construction works in LAR affected sites.

128. PIU ensures resettlement safeguard monitoring and reporting during implementation of project until the completion of the civil works and restoration of any temporarily used land.

129. PIU is responsible for the LARP budget and will ensure its timely allocation.

130. PIU will ensure the GRM will be in place throughout the project implementation.

131. Table 21.1 below shows a tentative implementation schedule and key tasks for LARP implementation (the green marked actions are completed during the TRTA). The schedule shall be updated as necessary, and streamlined with schedule of construction works.

Table 12.1: Implementation schedule

LARP activities	Completed during the TRTA				Timeline subject to the project/design progress								
	By June-July 2023				1	2	3	4	5	6	7	8	9
A. Project preparation													
1. Preparation of the subproject preliminary design	■												
2. Conducting APs census and social-economic surveys	■												
3. DMS, LAR impact assessment and valuation, AHHs consultations		■											
4. Public consultations and cut-off-date			■										
5. Preparing the draft LARP			■										
6. PIU endorses and ADB approves the draft LARP			■										
7. PIU request/secure funds for the draft LARP budget			■										
8. Disclosure of the draft LARP			■										
B. Implementation (project approval)													
9. Mobilization of the Resettlement Specialists (PIU, PIC)					■	■							
10. Preparation of the final design (design-build contractor)					■	■							
11. Setting up formally the GRM and nominate members					■								
12. Update and finalize the draft LARP based on the final detail design						■	■						
13. PIU endorses and ADB approves the final LARP								■					
14. ADB and PIU disclose the final LARP								■					
15. Information disclosure and public consultations with APs							■						
16. Signing compensation contract with APs									■				
17. Registration of unregistered land plot									■	■			
18. Establishing mandatory servitude by court, if any required ²⁰									■	■			
19. Payment of compensations and entitlements to AHHs									■	■	■		
20. LARP compliance report submitted to ADB for approval/approved by ADB											■		
21. ADB no-objection issuance											■		
22. Takeover possession of acquired lands												■	
23. Handover land to contractors												■	
24. Ongoing consultations with APs/public					■	■	■	■	■	■	■	■	■
25. Internal Monitoring and Reporting by PIU to ADB					■	■	■	■	■	■	■	■	■

²⁰ Compensation payment in such cases shall be reported in the SSMRs and/or corrective action plan report (as applicable) verified by the court and bank payment documents.

Annexes

Annex 1. Methodology and concurrence with PIU the ROW for LAR impact assessment

Concurrence of the ministry of environmental protection and agriculture on right-of-way and land acquisition and resettlement impact assessment methodology



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08/06/2022

To: Gizo Chelidze, Head of the Hydro-melioration and Land Management Department

CC: Lali Durmishidze, Director, Project Implementation Unit, MEPA

TA 6648-GEO: Climate Smart Irrigation Sector Development Project

Re: Approach for defining Right of Way (ROW) for modernization works and land acquisition and resettlement impact surveys and assessment in the distribution Area 1 of Kvemo Samgori left main canal

Dear Mr. Gizo Chelidze,

It is our pleasure to work with you for the preparation of the Climate-Smart Irrigation Sector Development Project proposed for financing by the Asian Development Bank (ADB). The project includes the modernization of Kvemo Samgori Left Main Canal irrigation scheme. Based on preliminary assessments, modernization works will cause temporary land impact and, as such, expected loss of crops and trees (and possibly other livelihoods) in privately owned and used lands. According to the requirements of Safeguard Policy Statement (SPS, 2009) of ADB as well as national laws, the affected persons shall be compensated and assisted, wherever applicable, for any such losses. The losses of affected persons shall be assessed within the right-of-way (ROW) to be used for the project modernization works, and a resettlement plan shall be prepared accordingly which, among others, will include a detailed inventory of losses, affected persons, and mitigation and compensation measures, and budget.

We have attached the proposed approach for defining the ROW for modernization works and land acquisition and resettlement impact surveys and assessment in Area 1 of Kvemo Samgori left main canal, for your feedback and concurrence. We look forward to hearing from you on or before 10 June 2022.

Your timely response will be highly appreciated and helpful to commence the land acquisition and resettlement impact assessment and surveys and preparing the Land Acquisition and Resettlement Plan to avoid delays in processing of the project by ADB and the Government of Georgia.

Please do not hesitate to contact us if you have any question or comment..

Yours sincerely,

Alex Trowell
 Water Specialist, Environment and Water Division, Landell Mills Ltd.

Attachment

Approach for defining Right of Way (ROW) for modernization works and land acquisition and resettlement impact surveys and assessment in the distribution Area 1 of Kvemo Samgori left main canal (4 June 2022)

A. Background

1. Asian Development Bank (ADB) considers to finance the proposed Climate Smart Irrigation Sector Development Program (Program) in the Republic of Georgia (Georgia). The Program will support policy reforms and develop institutional capacity in water resources management and delivery of climate-smart irrigation services, and will modernize the irrigation system in the Kvemo Samgori left main canal (KSL) irrigation scheme. The project preparation and modernization of the irrigation schemes (under output 2 of the Program) is planned in two phases and through design-build contract, and detail design will be finalized after the construction contract award. Phase 1 includes modernization of irrigation networks in Areas 1-4, and Phase 2 includes modernization of irrigation networks in Areas 5 and 6 (Figure 1). There is concept design for the Area 1 distribution network at the feasibility level. For Area 2, the concept design preparation is in progress. There is also detail design available for the main canal associated with Area 1). The Ministry of Environmental Protection and Agriculture of Georgia (MEPA) and Georgian Amelioration (GA) are the executing and implementing agencies for the project.

2. The project is assessed as Category B for Involuntary Resettlement (IR) Safeguard following ADB Safeguard Policy Statement (SPS 2009).²¹ Modernization works will cause land acquisition and resettlement impact (LAR), namely temporary impact on lands along the existing channels alignments, in approximately 510 hectares (ha) of lands of state and private lands (areas of private and state lands to be confirmed). All the impacted plots are agricultural. The most part of the affected agricultural plots (about 60%) is used for cultivation of perennials-grape trees and other fruit trees and about 40% for cultivation of annual crops. There may also be need for establishing servitude right for the GA (for schemes operations and maintenance) on some private lands to be confirmed and defined by the GA based on the final detailed design. LAR impact to residential or commercial buildings or businesses are not expected affected. The only structures that could be affected and are subject for compensation are fences, gates and the poles used to support the grape trees. Due to this expected LAR impact, it is required by ADB SPS (2009) to prepare a resettlement plan (RP) and compensate the loss of crops, trees and other livelihoods and/or assets of affected land owners and land users, according to findings of the LAR surveys and impact assessment to be conducted.

3. The LAR surveys and impact assessment will include activities such as site visits and impact examination on the site, detailed measurement surveys (DMS), and land ownership and land-use rights verification, inventory of losses and valuation (for replacement cost compensations to be paid prior to land acquisition and site access) of assets/livelihoods affected land owners/land users and other affected persons who may experience any economic and/ or physical displacement, census of affected persons, and socio-economic surveys of affected persons including through face-to-face interviews and statistical data, and public consultations with affected persons. For the subject project, these LAR impact assessment activities will be conducted as per the Terms of Reference (TOR) and Methodology (Appendix 2) by a local surveying company (Eco-Spectri Ltd, hereinafter referred as "Sub-

²¹ A proposed project is classified as category B if it includes involuntary resettlement impacts that are not deemed significant. A resettlement plan, including assessment of social impacts, is required. ADB Operations Manual: Safeguard Policy Statement (F1): OM Section F1/OP Issued on 1 October 2013. Project is assessed as Category C for Indigenous People Safeguards following ADB Safeguards Policy Statement (SPS 2009). No indigenous people or any ethnic minority groups live in the project area and ADB SPS requirements on indigenous people safeguards are not triggered, and no actions will be required.

contractor”) to be engaged and guided by TRTA resettlement safeguard specialists. The executing agency has ownership for LAR impact assessment and preparation of RP, and ADB TRTA assist the executing agency in carrying out these activities and prepare the RP as per ADB SPS (2009) requirements. The RP is to be implemented and compliance implementation to be reported to ADB and the RP compliance report to approved by ADB, prior to land acquisition and site access.

B. Approach for LAR surveys and impact assessment in preliminary defined ROW of pipelines

4. The LAR impact assessment is commonly conducted within the area of the project’s and construction works’ ROW (commonly area acquired permanently, and/or temporary for construction works and needs). This approach is prepared for the planned modernization works in distribution network in Area 1. According to the Order #19 of Minister of Urbanization and Construction of Georgia (dated 30 June 2003), the ROW for the main pipes (100-600 mm outer diameter) will be 4 meters (per 2 meters each side from the pipeline centerline), but for the secondary and tertiary channels (underground pipes of 80-100 mm diameter) this shall be defined in each project case (i.e. no regulation exist). The engineering design is not yet detailed and final at this stage of the project preparation to provide exact locations for laying underground the pipes and define the exact ROW and corridor of LAR impact. However, based on preliminary assessment of the engineers of the GA and the project’s Transactional Technical Assistance (TRTA), for the construction works/machines movement (with new work technology) 2 meters corridor would be sufficient.²²

5. Considering the above, the following approach will be applied for using the preliminary ROW and corridor of impact for land acquisition and resettlement (LAR) assessment at this stage of the project preparation:

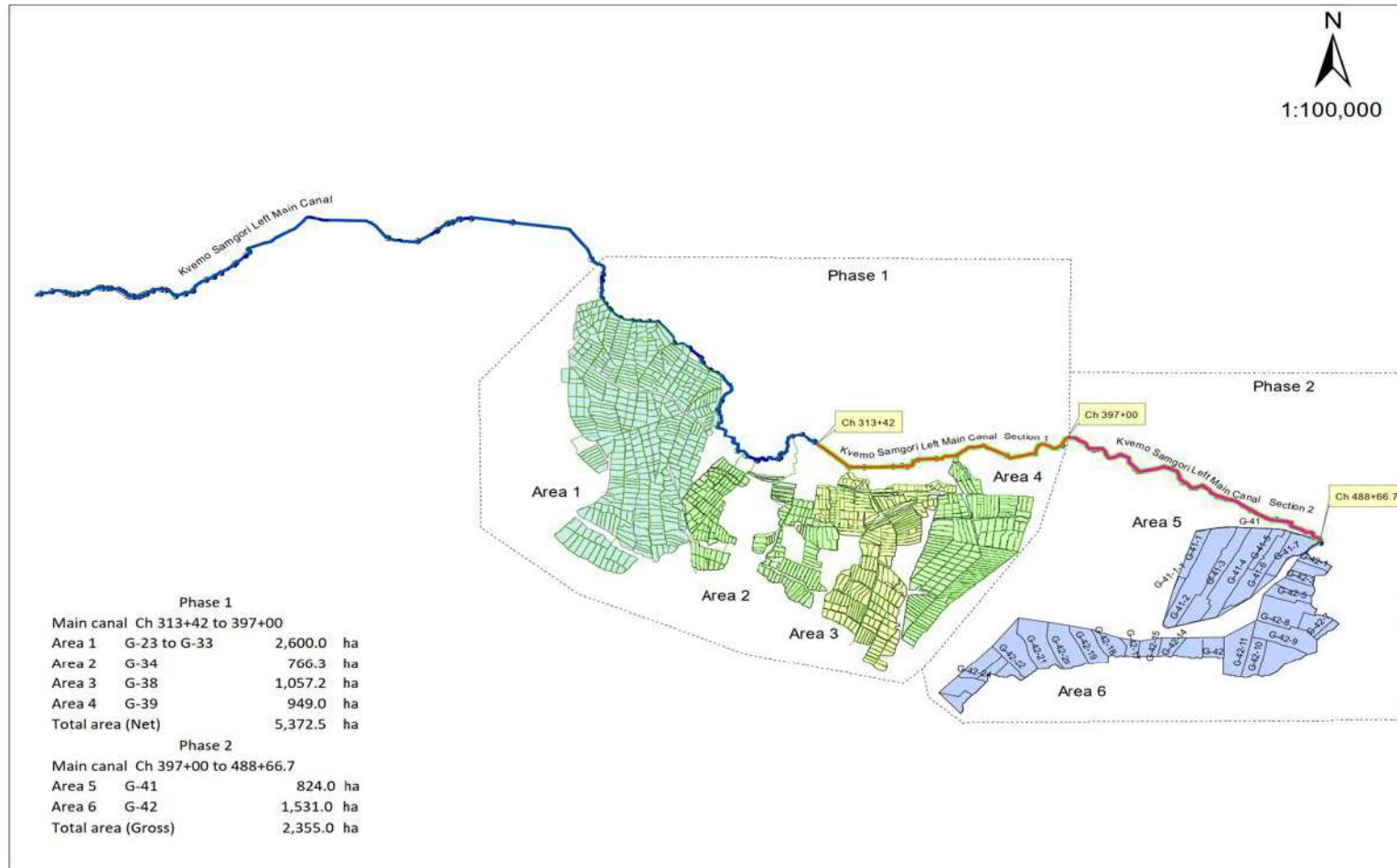
- (i) 4 meters corridor (per 2 meter each side from the pipeline centerline) for underground main pipes of 100-600 mm outer diameter;
- (ii) 2 meters corridor (per 1 meter each side from the pipeline centerline) for secondary and tertiary channels with underground pipes of 80-200 mm;²³
- (iii) GA shall confirm before or by 7 June 2022 if need to establish servitude in any private lands for pipelines/irrigation systems’ operations and maintenance; and
- (iv) the above clauses (i), (ii) and (iii) shall be reconfirmed based on the final detailed design showing the exact locations of the pipelines and modernization works, and LAR impact all over the pipelines’ length before commencing construction works, and LAR impact shall be updated if it will extend beyond the 2 and 4 meters accordingly, and for any emerging changes on servitude need.

6. The MEPA PIU on its email (09.06.2022) to TRTA Consultant (Landell Mills) letter from 02/06/2022, concurred the proposed methodology for preliminary defined ROW of pipelines and LAR impact assessment including the clauses (i), (iii), (iii) and (iv) above. This approach is a part of the project’s design documents for modernization of irrigation systems.

²² As per the TRTA and GA’s engineers assessments, the minimum corridor to work in should be about 2m, does not need to be centered on the pipeline but could be either side. In some areas even less, if necessary. On the other hand, if the circumstances allow, e.g. while laying the pipeline next to a road on public land, the Contractor might take a wider corridor for their convenience. The Contractor should be liable to reinstate anything that gets damaged or dismantled during the installation, e.g. fences, ditches, access roads etc., depending on what is prescribed in their contract documents.

²³ Annex 2 includes two kmz files which show the areas of the main pipelines and secondary and tertiary channels.

Figure 1: Kvemo Samgori Areas to be Modernized



Attachment 1. 1.

I. Terms of reference²⁴

1. Background

The Asian Development Bank (ADB) considers to finance a Climate Smart Irrigation Sector Development Program (Program) in the Republic of Georgia. The Program will support policy reforms and develop institutional capacity in water resources management and delivery of climate-smart irrigation services. The program will modernize the irrigation system in the Kvemo Samgori left main canal (KSL) irrigation scheme, introduce innovative and climate resilient agricultural production and irrigation technologies to increase agricultural productivity, improve degraded land and increase water security. The project preparation and modernization of the irrigation schemes under the project output 2 is planned in two phases. Phase 1 includes modernization of irrigation networks illustrated in green (Area 1, Area 2, Area 3, Area 4) and Phase 2 includes modernization of irrigation networks illustrated in blue (Area 5 and Area 6) in Figure 1. Under Phase 1, for the Area 1 irrigation network the TRTA team has developed a concept design at the feasibility level. For Area 2, the concept design preparation is in progress. There is detail design prepared for the main canal under Area 1.

The project is Category B for Involuntary Resettlement (IR) Safeguard following ADB SPS (2009). A draft RP preparation is required for the Area 1 (prioritized) and possible Areas 2, Area 3, Area 4, before the project approval and by the Fact-Finding Mission of ADB (dates to be confirmed). Therefore, the detail measurement Survey (DMS) and inventory of losses of AHHs, AHHs' census and socio-economic survey (SES) as well as valuation of losses and identifying compensation costs are required for preparing the draft RP for Area 1 (prioritized), Area 2, Area 3, and Area 4 shall be conducted within June and 2022 and collected analyzed and data tabulated by the first week of July 2022. A LARF is prepared to address any potential IR impacts due to the modernization works. For Area 5 and Area 6, based on the detailed design after the project approval.

The project envisages installation of the network of channels, which are in fact buried pipes. Construction activities include laying pipes along the channel, trenching, laying pipes, backfilling and reinstatement. As per preliminary assessment (to be confirmed upon the LAR impact assessment), under the Area 1, there will be temporary land will impact in total 510 hectares (ha) of lands, including state and private lands. All the impacted plots are agricultural. The most part of the affected land (about 60%) is used for cultivation of perennials – grape trees and other fruit trees and about 40% for cultivation of annual crops. There may also be a need to establish servitude for schemes operations and maintenance on private lands (area to be identified). No residential or commercial buildings or businesses are expected to be affected by the project but possibly fences, gates and poles used to support the grape trees.

2. Specific tasks of the Sub-Contractor

The objective of engagement of the Sub-Contractor is conducting the census and socio-economic survey (SES) of the project Affected Households (AHHs), Detail Measurement Survey (DMS) and inventory of losses of AHs, and valuation of losses of AHHs and identifying compensations rates and amounts for each of the AHHs and for each type of loses, as per specific tasks provided below and the Methodology for LAR surveys and Assessment, followed after hereby, for preparation of the RP for the project. The collected information shall be provided in Excel, database and analysis prepared in tabulated forms with gender disaggregated data as relevant. The Sub-contractor shall:

²⁴ Presented approach in this TOR has been actually applied during the preparation of this draft LARP.

- (i) Identify affected lands, affected households (AHHs), affected persons (APs)
- (ii)** Conduct inventory of losses and Detail Measurement Survey on impacted lands;
- (iii) Collect existing cadastral and land parcel maps and orthophotos from the central and municipal level Public Registry offices. The layouts of the irrigation channel and rights-of-way (ROW) corridor (2m width corridor, or 4 meters width as relevant) as will be defined in the design documents or kmz files, shall be superimposed on the cadastral map and orthophoto to identify the affected plots and owners;
- (iv) Conduct field survey to collect/update the maps: compare the actual configuration of the registered land parcels with the land registration drawings. The land parcels not registered but actually used by private users should be measured and mapped;
- (v) Prepare the precise maps of the entire affected land parcels and the portion of the parcels within ROW. Cadastral and land parcel maps and name of the owners shall be certified by the municipal level Municipal Government;
- (vi) Following the identification of the affected land plots and owners (Affected Households (AHHs)) conduct DMS and inventory of losses, identify category of affected land parcels, structures, trees and annual crops within the ROW;
- (vii) In close coordination with MEPA PIU and Georgian Melioration, identify and measure the areas where the servitude will be required for irrigation schemes operations and maintenance (after construction works);
- (viii) Conduct valuation of losses for assets and livelihoods/income of AHHs for compensation, including for servitude (possible land use restrictions) impact on value of affected lands for compensation (compensation due to possible decrease of land value as relevant);
- (ix) Identify AHs and APs (APs are referred as members of AHHs in this document), conduct consultations with the Local Government, Municipal offices of NAPR, and Property Recognition Commission, local residents, and public meetings;
- (x) Determine the legal status of owners/users including title holders, legalizable owners and informal users or non-titled settlers, tenants of affected agricultural land parcels and employees of affected businesses. Relevant documents as proof of tenancy and employment shall be reviewed and copies of the same will be collected. The affected part of land (entire plot and the portion within right of way) shall be measured and recorded;
- (xi) Prepare tabulated analysis for preparation of RP by ILF and Land Mills;
- (xii) Other tasks relevant to data collection and analysis and valuation of losses of assets/livelihoods for compensations to AHHs, required for RP preparation.

Detail Measurement Survey

Preparation of cadastral map

- (i) Collect current cadastral maps Identify of affected land plots, AHHs. Collection of the household contact information (address of residence, phone number, etc.);
- (ii) Superimposing ROW Alignment on Existing Cadastral Maps; Consultations with the Local Government, Municipal offices of NAPR and Property Recognition Commission, Local residents; Public meetings;
- (iii) Collection of Cadastral Profile for affected land parcels (individual number/index, area, land category, use, legal status of ownership and use, tenants);
- (iv) Detailed measurement survey for measuring affected lands (entire plot and affected part);
- (v) Update cadastral maps with precise maps of the affected land parcels (entire plots);
- (vi) Update profile of cadastral maps for affected land parcels (entire and affected part);
- (vii) Identify titled, legalizable (rightful and non-rightful) and non-legalizable owners (for private and state land), and tenants and sharecroppers of affected land (if any).

Ownership documentation/updating

- (i) Review existing ownership documents for each affected land plot (in NAPR, Archives and assist Atos in local Sakrebulos);
- (ii) Assist Owners/Users of affected plots in collecting/updating ownership documents. Preparation of information and recommendations for legalizing the land parcels owned/used without land ownership rights (including all specific cases);
- (iii) Provision of precise map of land parcels affected by the project;
- (iv) Assist Owners/Users of affected plots in registering/updating ownership with NAPR (by providing maps and detailed instructions).

Inventory of Losses

- (i) Identify and assess all assets, trees, crops, structures (main structures, secondary structures and ancillary structures such as sheds, etc.) on affected land parcels (within right of way and/or non-viable residual land plots) with records with appropriate units (e.g. ha, sqm, floor area (m²), volume (m³), length (m), construction materials, etc.);
- (ii) List standing trees and crops on the affected lands by type, area, species, age, variety and productivity. Photo document the affected land parcels with structures, trees and crops will be taken for each land parcel for records. Crops cultivated during recent years will be considered in case if no crops are standing for the moment of survey;
- (iii) Review ownership documents of owners/users of affected land and businesses and assist. Collect copy of the documents including the ID cards of the owners (titled, legalizable and informal users);
- (iv) Identify legalizable owners and informal users, tenants and employees (tax documents for business owners and employees);
- (v) All documents shall be scanned and computerized for RP;
- (vi) Generate tables for each type of losses and summary loss tables for preparing the RP.

Valuation of Land and Assets

- (i) Based on assessment of affected lands and assets during the DMS and inventory of losses, value and identify the replacement cost for affected lands (including areas where will be servitude impact on lands due the project), assets and losses of AHHs (based on valuation methodologies that ensure replacement cost and market value of the affected assets), and loss of land value due to servitude to be imposed restrictions, according to ADB SPS (2009) requirements. The replacement cost shall include the current market rates, possible taxes, fees and any other costs the AHHs have incurred or/and may incur;
- (ii) Prepare valuation methodology and comparisons of official statistic data and current market rates and prepare compensation rates and tables for all type of losses including the lands under the servitude for preparing the RP.

Census and Socioeconomic Survey

- (i) Conduct census of 100%²⁵ possible of AHHs with detail of their households and LAR losses, identify any vulnerable and severely AHHs/APs;
- (ii) Conduct socio-economic survey of total 20% of AHHs. Gender, age, disability and ethnicity of households' head and members, education, age, etc. and more general information about the household in terms of economic activities, tenancy, cropping pattern, consumption pattern, and possession of durables, indebtedness, access to water and power, sanitation, and access to basic social infrastructure, shall be collected and analysed among other data;
- (iii) A structured questionnaires will be used for the census of affected households and to conduct socio-economic survey;

²⁵ 100% is assumed from the total amount of AHHs available or those that could be found and reached during the realistic period of RP preparation.

- (iv) DMS ID numbers shall be assigned for each AHs reference;
- (v) Along with ADB TRTA consultant assist in project information disclosure and consultation with AHs, during the AHs' census and socio-economic survey;
- (vi) Prepare analysis and tabulated analysis of collected data in AHs' census and socio-economic survey in Excel for RP preparation.

1. Logistics

The Sub-Contractor will organize the mobilization and demobilization of its experts itself. This includes organizing any necessary local travel, insurance, accommodation, and providing the expert with enough money for per diems for their trip.

2. Expected outputs

The following outputs/deliverables are expected from the Subcontractor. The Methodology proposed by the Subcontractor is also appended with this Sub-Contract Agreement.

Identification of affected lands, assets, AHs and ownership status

- (i) List of AHs²⁶ (including owners of affected land parcels, structures, trees and crops, informal users of land, tenants of affected agricultural land, employees of affected businesses) and vulnerable affected persons;
- (ii) Inventory of affected land parcels (each land parcel) and assets (loss profile) entered on to the excel data entry sheet;
- (iii) Socio-economic information for each AHs entered on to the Excel data entry sheet;
- (iv) Protocols of land and asset valuation and proposed rates for compensation;
- (v) Photographs of affected land, structures, trees and crops;
- (vi) Identification documents of owners/affected persons (ID Cards);
- (vii) List of specific cases including AHs refusing to move, absentee AFs and those cannot be compensated for some administration reason;
- (viii) Loss and entitlement profile of AHs;
- (ix) ACS matrix integrating list of AHs, loss profile, compensation entitlements;
- (x) Data entry sheets integrating all sociological information and inventory of losses;
- (xi) Package of documents for each land parcel (inventory of losses and SES data);
- (xii) Provide recommendations for assisting the legalizable AHs in legalizing the land parcels owned/used without land ownership rights.

Valuation of assets and compensation rates

- (i) Measurement of affected land area through DMS (including non-viable residual land)
- (ii) Measurement of volume of affected structure by category through DMS;
- (iii) Counting affected trees by species and age and affected standing crops by DMS;
- (iv) Evaluation of current market price of land and compensation rates due to potential land value decrease due servitude (for agricultural, residential/commercial lands as relevant);
- (v) Evaluation of replacement value of structures, trees, crops, etc. and provide final of replacement cost got all impacted assets/livelihoods, and assistance allowance (if vulnerable or severely affected) for each owner/AHs;
- (vi) Preparation of loss inventory for each owner/land plot (losses file);
- (vii) Identification of severely affected households eligible for additional allowances;
- (viii) Calculate compensation and entitlement for each owner/plot (entitlement file).

²⁶ Identified titled, legalizable (rightful and non-rightful) and non-legalizable owners (for private and state land), and tenants and sharecroppers of affected land (if any).

I. Methodology for LAR Surveys and Assessments

The Methodology and the Approach for ROW for modernization works where to be conducted the LAR impact surveys is shown in Schedule 8 of the Sub-Contract Agreement.

The Affected Households' Census Questionnaire and Socioeconomic Survey Questionnaire (SES) are also both appended with which the Subcontractor must follow.

1. Introduction

As per the preliminary data, the Project will have an impact on both privately owned and unregistered land plots. According to the initial analysis, 878 Registered s of land and about 90 un Registered s, making total approximately of 968 plots, will be affected. Each plot has on average 2.5 owners.

Under the preliminary agreement, the Company must accomplish the following activities within the scope of the project: (i) the assessment of the privately owned property under the impact: (ii) detailed measurement survey (DMS), and (iii) socio-economic survey of the affected persons.

In order to complete the given assignment, 3 groups will be staffed. Below, we give the methodology to be used by each group.

1.1 Detail Measurement Survey

The process of the detailed measurement survey (DMS) will be managed by a Certified Real Property Surveyor Mr. David Kaviladze. The "Eco-Spectri" Ltd will collect existing cadastral and land parcel maps and orthophotos from the National Agency of Public Registry. The detailed design of the alignment (including interchanges and other road infrastructure facilities) will be superimposed on the cadastral map and orthophoto and field survey will be carried out to update the maps and identify affected land parcels. Precise maps of the entire affected land parcels and the portion of the parcels within the project area will be prepared.

Following the identification of the affected land plots, owners of affected land parcels, structures, trees, crops and businesses on land within or affected by the project area will be identified. Identification of the affected households and persons will require consultations with the Local Government, Municipal offices of National Agency of Public Register (NAPR), Municipal Services of Archive and Property Recognition Commission, as well as local residents, and include public meetings. The legal status of owners/users will be determined including title holders, legalizable owners (rightful and non-rightful), and informal users or non-titled settlers. The tenants of affected agricultural land parcels and employees of affected businesses will also be identified. Relevant documents as proof of tenancy and employment will be reviewed and copies of the same will be collected in collaboration with valuation team. Information on non-registered businesses or enterprises will also be collected. The affected land (entire plot and the portion within right of way) will be measured and recorded.

The legalizable owners will be assisted for legalization of their ownership by providing cadastral drawings and maps.

1.2 Support to Design Consultant for Preparation of Land Acquisition Plan

With the results of detail measurement survey, Eco-Spectri Ltd. will assist Design Consultant in preparation of resettlement plan (RP). The survey team will assist the process of legalization by providing precise cadastral maps of affected land parcels and the list of affected land parcels (supplemented with land acquisition maps and certification of Municipal (District) Municipal Government).

1.3 Specific activities of Eco-Spectri Ltd

1.3.1 Detail Measurement Survey (DMS)

Preparation of cadastral maps

- (i) Collection of Existing Cadastral Maps identification of Affected land plots, Persons (AP) and Households (AH). Collection of the household contact information (address of residence, phone number, etc.) - Superimposing ROW alignment on Existing Cadastral Maps; Consultations with the Local Government, municipal offices of NAPR and Property Recognition Commission, Local residents; Public meetings.
- (ii) Collection of Cadastral Profile for Affected Land parcels (individual number/index, area, land category, use, legal status of ownership and use, tenants
- (iii) Detailed Land Measurement survey for measuring affected land parcel (entire plot and affected part)
- (iv) Update cadastral maps with precise maps of the affected land parcels (entire plots)
- (v) Update profile of cadastral maps for affected land parcels (entire and affected part)
- (vi) Identify titled, legalizable (rightful and non-rightful) and non-legalizable owners (for private and state land), and tenants and sharecroppers of affected land (if any)

Ownership documentation/updating

- (i) Review existing ownership documents for each affected land plot (in NAPR, Archives and assist valuation team in local Sakrebulo)
- (ii) Assist Owners/Users of affected plots in collecting/updating ownership documents. Preparation of information and recommendations for legalizing the land parcels owned/used without land ownership rights (including all specific cases)
- (iii) Provision of precise map of land parcels affected by the project
- (iv) Assist Owners/Users of affected plots in registering/updating ownership with NAPR (by providing maps and detailed instructions)

Deliverables:

- (i) List of affected land parcels
- (ii) List of affected owners and up to date ownership documents (from NAPR, Archives, local Sakrebulo)
- (iii) Precise map of the entire land parcels (Cadastral Plan)
- (iv) Precise map of affected land parcel(s) showing the portion within project right of way.

1.3.2 Inventory of losses

The property evolution team will be led by Mr. Zurab Revazishvili, a Certified Real Property Appraisal Specialist. Impacts on affected land plots will be assessed, viability of the residual land will be analyzed and appropriate consultations with the land owner conducted in that regard. The land within the right of way and any land rendered non-viable as a result of the right-of-way will be considered as "affected land" and subject to acquisition and compensation. All structures (main structures, secondary structures and ancillary structures such as sheds, animal pens etc.) on the portion of affected land parcels (within right of way and/or non-viable residual land plots) will be assessed and the following information recorded: Standing trees and crops on the portion of the affected land parcel within project area will be assessed by type, species, age, variety and productivity. Photographs of the affected land parcels with

structures, trees and crops will be taken for each land parcel and documented as part of the record taking. Crops cultivated during recent years will be considered in case if no crops are standing for the moment of survey.

Permanent Impact on lands: In the area where the affected privately-owned plots are situated, market values of land vary depending on the type of land and location. The calculation of compensation will be carried out in accordance with the Entitlement and Compensation Matrix, according which:

- (i) Cash compensation at replacement cost based on the market value of the affected land and other costs, including cost of preparation of the land to the level equal to the affected land, if needed;
- (ii) Costs for land parcel sub-division, transaction and registration fees (as relevant), which shall be covered by the EA;
- (iii) EA shall assist the AHs for free-of charge in registration/legalization of their legalizable land rights, including preparing the cadaster drawings required for legalization of project affected land parcels the AHs have been using;
- (iv) If the residual land after the impact becomes unviable and/or inaccessible, the remained land plot shall be acquired and compensated with the consent of the owner.

Loss of trees: Cash compensation will be calculated at current market value and according to type, age, and productive value of the tree.

Fruit trees. Income based on an annual yield capacity of a mature fruit bearing tree multiplied by the market price of the fruit (Kg/GEL) and multiplied to the number of years required to grow a new tree to the same productivity age. In addition, each fruit bearing tree will be compensated for purchase of saplings, transportation and planting labor. The formula below is for calculating cash compensation for fruit bearing trees:

$$\{(B \times D) \times C\} + A$$

A – Price of sapling of a specific fruit tree, transportation and planting labor

B – Market price of a specific fruit GEL/Kg)

C – Number of years to be compensated

D – Annual yield capacity of a fruit tree (Kg/yr/tree).

Immature trees. Cash compensation at the replacement cost, including the costs for saplings, planting and growing trees to the same age, to be defined by an independent valuation entity;

Timber trees. Cash compensations based on the market value of dry wood volume defined by an independent valuation entity;

Decorative trees. Cash compensation based on the market value identified by an independent valuation entity.

Servitude establishment. Areas of the land for servitude establishment (for construction, and operation and maintenance needs) shall be identified by the Sub-Contractor hereto. Lands where servitude may be needed within the pipelines' ROW will not be acquired by the project. The servitude impact will cause restrictions of land use rights and diminish land's value. For lands that will be under the servitude, the EA shall negotiate and sign servitude agreements with the respective landowners. Compensation for land affected by servitude shall be calculated based on difference of the market value of the land at present (before the project) and after the project impact (land use restrictions imposed by servitude) as follows:

- a) Agricultural land: one-time cash compensation equal to the loss of of the affected land value, to be defined by the valuation specialist.
- b) Residential/commercial land: one-time cash compensation equal to loss of the affected land value, to be defined by the valuation specialist.

Impacted land areas including for servitude needs (if any) shall be identified, valued and compensation identified and presented in tabulated forms for RP budget. Valuation reports asper the valuation standards shall be prepared for records.

1.3.3 Census and Socioeconomic Survey of Affected Persons

During the project implementation and preparation of the RPs, the census of all AHs (100%) and socio-economic study (SES) with the sample survey of 20% of AHs will be conducted and collected data will be analyzed as baseline data in the RP. SES of AHs including (not exhausted list) on followings: (i) demographic (household composition by age, gender, relationship, ethnicity, education levels); (ii) social (corporate groups such as family, lineage, clan, community, and noncorporate such as caste, class, ethnic, religious groups); (iii) income and assets (individual, corporate, or collective incomes as well as ownership land, livestock, fishing boats, shops, wood lots, among households) as well as expenditures; (iv) occupation (farmers, teachers, shopkeepers, artisans, laborers, transporters, students, spiritual leaders, etc.); (v) access to public services (health care, water supply and sanitation, education, transport, etc.); (vi) gender roles and issues; and (vii) perception and preferences on resettlement.

The socio-economic survey/census must be linked with each household losing land or assets in a clear and methodical manner. It is imperative that the households losing land identified through the DMS be easily linked by survey/DMS ID numbers to the socio-economic information collected for that household.

The questionnaires provided hereto the TORs for the assignment will be used at the AHs census, socio-economic surveys and measurement and assessment of affected land and each type of losses, and findings shall be analyzed and presented in tabulated forms.

The survey team will assist the design consultant to organize public consultations with AHs and local residents and focused groups discussions, for resettlement planning and compensation measures developing purposes, and for project and LAR information disclosure.

The Sub-contractor will generate output tables for use in preparing RPs for each contract.

Attachment 1. 2. Two kmz files (sent electronic)

7/1/22, 11:52 AM

Gmail - RE: LAR impact survey - concurrence with proposed approach

vaxo_gardapkhadze@yahoo.com; Gurgenedze, Giorgi <Giorgi.Gurgenedze@ifl.com>
Subject: LAR impact survey - concurrence with proposed approach

Dear Gizo and Lali,

I hope you are both well.

Please find attached a letter detailing the proposed approach for defining the ROW for modernization works and land acquisition and resettlement impact surveys and assessment in Area 1 of Kvemo Samgori left main canal, for your feedback and concurrence. This has been formulated in consultation with ADB. We would greatly appreciate your concurrence by 10th June so that the LAR impact surveys and assessments may commence.

I have copied in our International Resettlement Specialist, Ms. Nargis Halimova, should you have any technical queries. A hard copy of this letter will be delivered to you both today.

Best regards,
Alex

Alex Trowell

Water Specialist

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Annex 2. Site photos and land plots impact drawings

Impacts drawing follow after photos

Site photos show there are lot of free spaces to be carefully used in detail design to avoid impact to crops during construction and also servitude in private lands

Figure 4. Wide available space and access road



Figure 5. Wide available space for buried pipes and existing access road



Figure 6. Available space for buried pipes 2.5-2.7 meters between the grape trees



Figure 7. Available space for buried pipes and access road



Figure 8. Available space for buried pipes and available access road



Figure 9. Available space for buried pipes and available access road

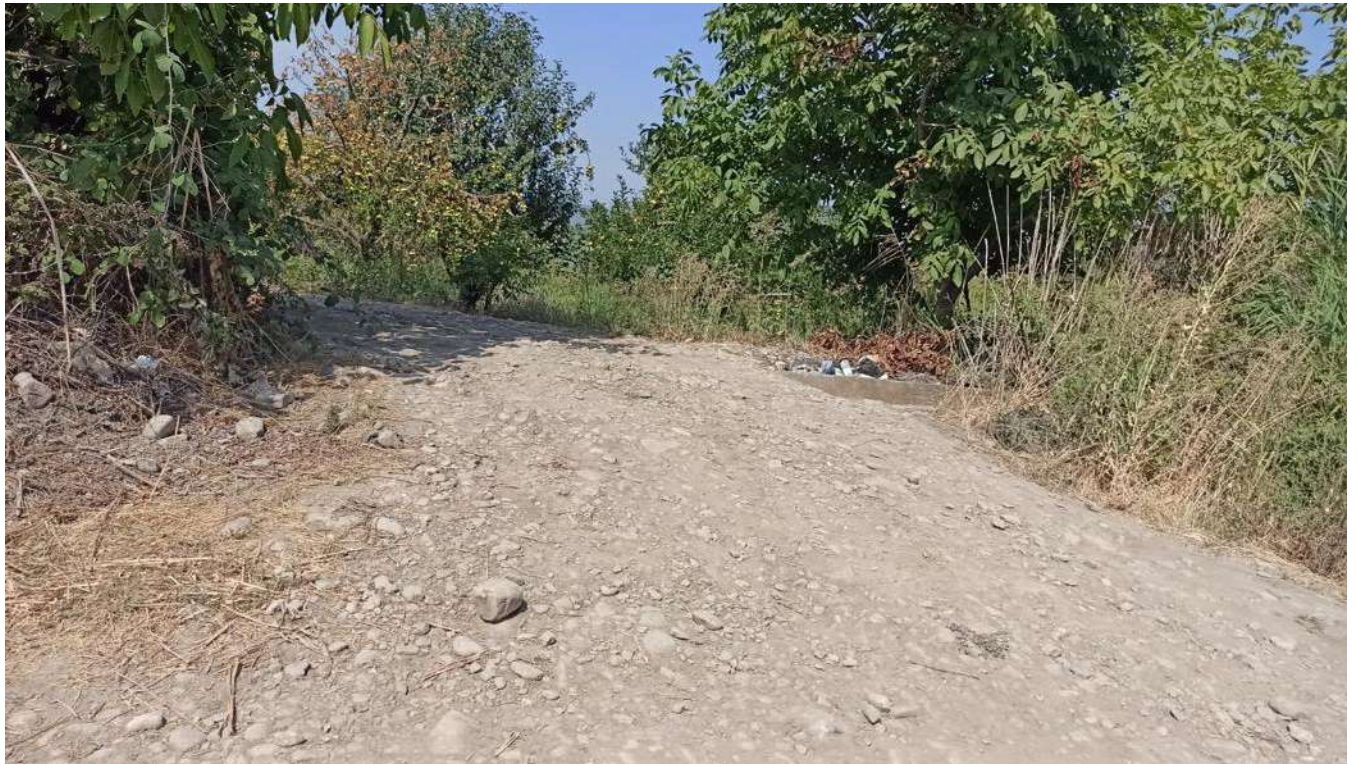


Figure 10. Available space for buried pipes and available access road



Figure 11. Available space for buried pipes and available access road



Figure 12. Available space for buried pipes and available access road



Figure 13. Available space for buried pipes and available access road



Figure 14. Available space for buried pipes 2.5-2.7 meters between the grape trees and available access road



Figure 15. Available space for buried pipes and available access road



Figure 16. Available space for buried pipes and available access road



Figure 17. Available space for buried pipes 2.5-2.7 meters between the grape trees and available access road



Figure 18. Available space for buried pipes and available access road



Figure 19. Available space for buried pipes and available access road; existing channel that will be replaced with buried pipes



Figure 20. Available space for buried pipes and available access road; existing channel that will be replaced with buried pipes



Figure 21. Available space for buried pipes and available access road






Figure 22. Available space for buried pipes 2.5-2.7 meters between the grape trees for buried pipes

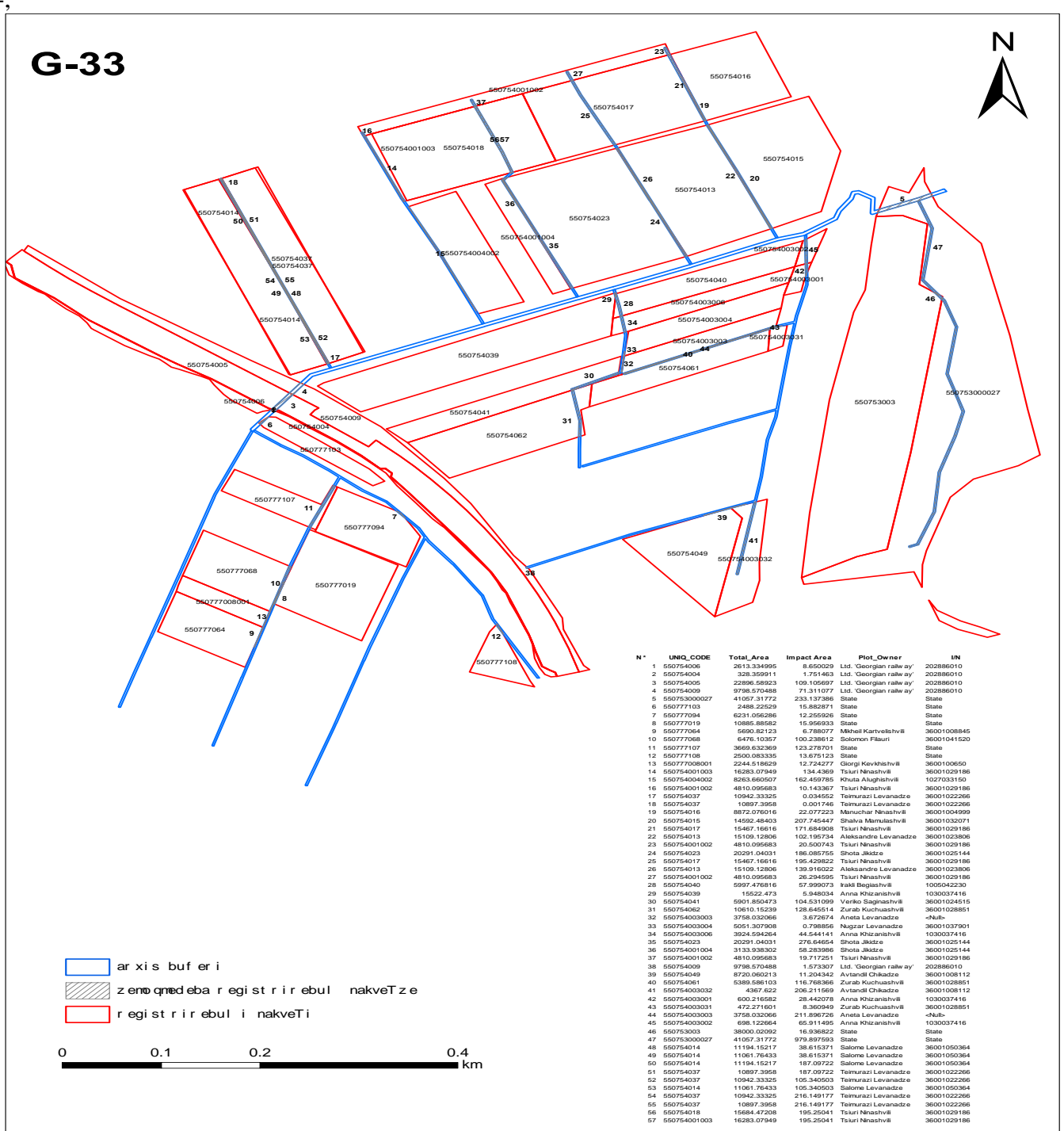
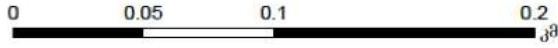


Figure 23. Available space for buried pipes 2.5-2.7 meters between the grape trees for buried pipes






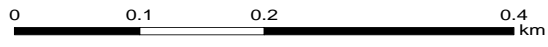
Land plot impact drawings

-  არხის ბუფერი Bufer of the channel
-  ზემოქმედება რეგისტრირებულ ნაკვეთზე Impact area
-  რეგისტრირებული ნაკვეთი Land Plotas



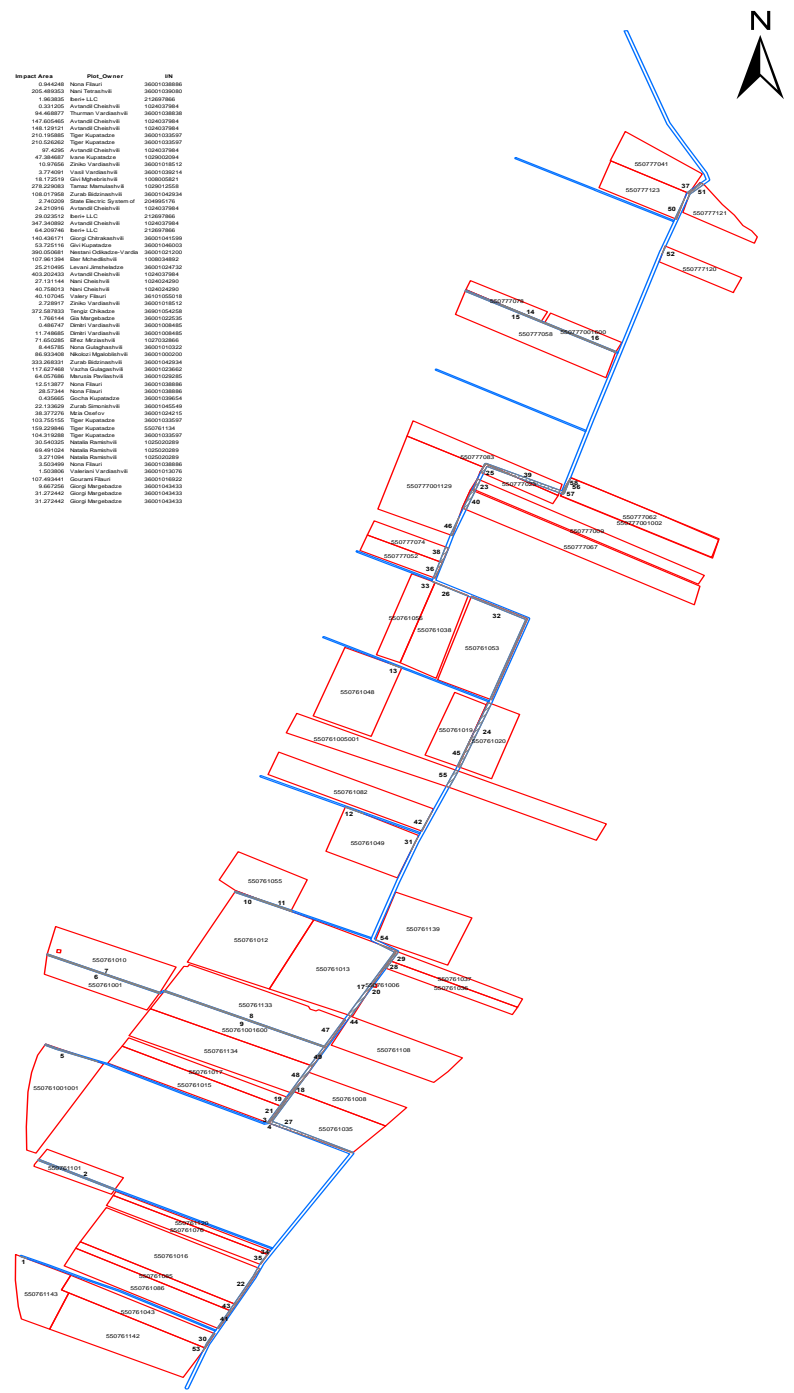
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3	550754005	22896.58923	109.105697	Ltd. 'Georgian railw ay'	202886010
4	550754000	9798.576488	71.211077	Ltd. 'Georgian railw ay'	202886010
5	550754000027	41057.31772	233.137396	State	36001041520
6	550777103	2488.22529	15.882871	State	36001029186
7	550777094	6231.056286	12.255926	State	36001029186
8	550777019	10886.86562	15.856933	State	36001029186
9	550777064	5690.82123	6.788077	Mikhail Karvelashvili	36001008845
10	550777068	6476.103637	100.238612	Stolomon Filauti	36001041520
11	550777107	3666.632369	123.278701	State	36001029186
12	550777108	2500.083335	13.675123	State	36001029186
13	550777080001	2244.618629	12.724277	Georgi Kevkhishvili	3600100650
14	550754001003	16283.07949	134.4369	Tsuri Ninashvili	36001029186
15	550754004002	8263.669507	162.459785	Khuta Alagishvili	1027033150
16	550754001002	4810.095683	10.143887	Tsuri Ninashvili	36001029186
17	550754037	10942.33325	0.034562	Teimurazi Levanzadze	36001022266
18	550754037	10897.39858	0.001746	Teimurazi Levanzadze	36001022266
19	550754016	8872.078016	22.077223	Mansuchar Ninashvili	36001004699
20	550754015	14592.48403	207.745447	Shalva Mamulashvili	36001032071
21	550754017	15467.16616	171.684808	Tsuri Ninashvili	36001029186
22	550754013	15109.12806	102.195734	Aleksandre Levanzadze	36001023806
23	550754001002	4810.095683	20.500743	Tsuri Ninashvili	36001029186
24	550754023	20291.04031	186.987555	Shota Jkldze	36001025144
25	550754017	15467.16616	195.429822	Tsuri Ninashvili	36001029186
26	550754013	15109.12806	139.918622	Aleksandre Levanzadze	36001023806
27	550754001002	4810.095683	26.234995	Tsuri Ninashvili	36001029186
28	550754040	5997.478816	67.990073	Iraki Begashvili	1005042230
29	550754039	15522.473	5.948034	Anna Khizanishvili	1030037416
30	550754041	5901.856473	104.031099	Vakho Siguaishvili	36001024515
31	550754062	10610.15239	128.845514	Zurab Kuchuaishvili	36001028851
32	550754003003	3758.032066	3.672674	Anna Levanzadze	-N/A-
33	550754003004	5051.307908	0.798856	Nugzar Levanzadze	36001037901
34	550754003006	3924.594264	44.544141	Anna Khizanishvili	1030037416
35	550754023	20291.04031	276.646564	Shota Jkldze	36001025144
36	550754001004	3133.938302	58.283986	Shota Jkldze	36001025144
37	550754001002	4810.095683	19.712551	Tsuri Ninashvili	36001029186
38	550754008	9798.576488	1.573307	Ltd. 'Georgian railw ay'	202886010
39	550754049	8720.060213	11.204342	Avtandil Chkaidze	36001008112
40	550754061	5389.586103	116.789366	Zurab Kuchuaishvili	36001022266
41	550754003032	4287.622	205.211569	Avtandil Chkaidze	36001008112
42	550754003001	600.216582	28.442078	Anna Khizanishvili	1030037416
43	550754003031	472.271601	8.369349	Zurab Kuchuaishvili	36001028851
44	550754003003	3758.032066	211.896726	Anna Levanzadze	-N/A-
45	550754003002	698.122664	65.911495	Anna Khizanishvili	1030037416
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47	550753000027	41057.31772	979.897593	State	36001029186
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50	550754014	11194.15217	187.09722	Salome Levanzadze	36001050364
51	550754037	10897.39858	187.09722	Teimurazi Levanzadze	36001022266
52	550754037	10942.33325	105.340503	Teimurazi Levanzadze	36001022266
53	550754014	11061.76433	105.340503	Salome Levanzadze	36001050364
54	550754037	10942.33325	216.149177	Teimurazi Levanzadze	36001022266
55	550754037	10897.39858	216.149177	Teimurazi Levanzadze	36001022266
56	550754016	15684.47208	195.25041	Tsuri Ninashvili	36001029186
57	550754001003	16283.07949	195.25041	Tsuri Ninashvili	36001029186

-  ar x is bu f e r i
-  z e m o x m e d e b a r e g i s t r i r e b u l n a k v e t z e
-  r e g i s t r i r e b u l i n a k v e t i



g-33" -A

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3	550761016	4846.26142	0.81852	Beer, LLC	212807862
4	550761035	6404.83646	0.281205	Avtorov ChastnV	1024037964
5	550761001	8041.73691	84.44807	Turakov VarshchV	3600103938
6	550761001	4114.038184	147.625462	Avtorov ChastnV	1024037964
7	550761013	6533.28219	148.19321	Avtorov ChastnV	1024037964
8	550761013	10194.26249	210.165882	Tiger Kuznetsov	3600103587
9	550761001000	6284.14831	210.02020	Tiger Kuznetsov	3600103587
10	550761012	13001.20004	97.4202	Avtorov ChastnV	1024037964
11	550761002	4988.77242	47.248807	None Kuznetsov	1024037964
12	550761049	8780.88875	10.77006	Zhuk VarshchV	3600101812
13	550761048	6208.82716	2.77101	None VarshchV	3600102814
14	550777018	1034.02226	18.172715	Oni InghratshV	1024037964
15	550777058	7927.85926	278.224903	Tatara MamalashV	1024037964
16	550777018	1034.02226	18.172715	Zurab Baramidze	1024037964
17	550761008	28.250774	2.740099	State Electric Sv system of	204945176
18	550761000	4448.028102	58.219194	Avtorov ChastnV	1024037964
19	550761017	3191.652225	29.229152	Beer, LLC	212807862
20	550761013	12481.93502	347.263986	Avtorov ChastnV	1024037964
21	550761015	6488.261482	64.202784	Beer, LLC	212807862
22	550761016	12481.93502	148.448171	Georg Chikvadze	3600104109
23	550777009	4786.150308	53.225114	Oni Kuznetsov	3600104003
24	550761000	4448.028102	601.000491	None Chikvadze-Vard	3600102100
25	550777023	840.201437	107.891188	Oni InghratshV	1024037964
26	550761038	6001.87748	25.214945	Levan Jambalava	3600104730
27	550761006	4846.83646	482.219242	Avtorov ChastnV	1024037964
28	550761038	2101.55532	27.181144	None ChastnV	102403490
29	550761037	2038.28127	40.128013	None ChastnV	102403490
30	550761043	4786.84212	40.127946	Vakht Flauri	3601055218
31	550761049	6700.98875	2.728977	Zhuk VarshchV	3600101812
32	550761053	9600.198327	372.58783	Tatara Chikvadze	3600105428
33	550761056	2460.478168	1.786144	Oni Mergeladze	3600102205
34	550761120	1365.614665	0.482747	Dveri VarshchV	3600100445
35	550761056	2460.478168	1.786144	Oni Mergeladze	3600100445
36	550777022	2460.786502	71.850205	Oni Mergeladze	1024037964
37	550777041	4413.075142	8.449796	None GdaghvashV	3600101022
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39	550777063	4024.555849	333.268331	Zurab Baramidze	3600104534
40	550777067	8028.281786	117.617648	Vakht GdaghvashV	3600102462
41	550761008	4300.281786	14.027368	None PirovshV	3600102845
42	550761062	7412.862504	15.218077	None Flauri	3600102846
43	550761065	2307.380254	28.277344	None Flauri	3600102846
44	550761108	8028.128486	0.455662	Georg Kuznetsov	3600103454
45	550761019	4300.488495	22.113828	Zurab SamvelashV	3600104549
46	550761019	11083.631844	38.272728	None PirovshV	3600102462
47	550761133	10194.26248	103.721022	Tiger Kuznetsov	3600103587
48	550761134	10194.26248	103.721022	Tiger Kuznetsov	3600103587
49	550761134	10194.26248	103.721022	Tiger Kuznetsov	3600103587
50	550761134	10194.26248	103.721022	Tiger Kuznetsov	3600103587
51	550777123	4378.261315	35.540253	None Baramidze	1024037964
52	550777123	2460.281787	68.641044	None Baramidze	1024037964
53	550777120	2460.142441	3.271034	None PirovshV	1024037964
54	550761142	9600.055002	3.520496	None Flauri	3600102846
55	550761139	7408.841284	1.520806	Vakht VarshchV	3600102076
56	550761000	11033.27821	107.463441	Georg Flauri	3600102122
57	550777001002	6022.972746	9.881258	Georg Mergeladze	3600104333
58	550777001002	6022.972746	31.272462	Georg Mergeladze	3600104333
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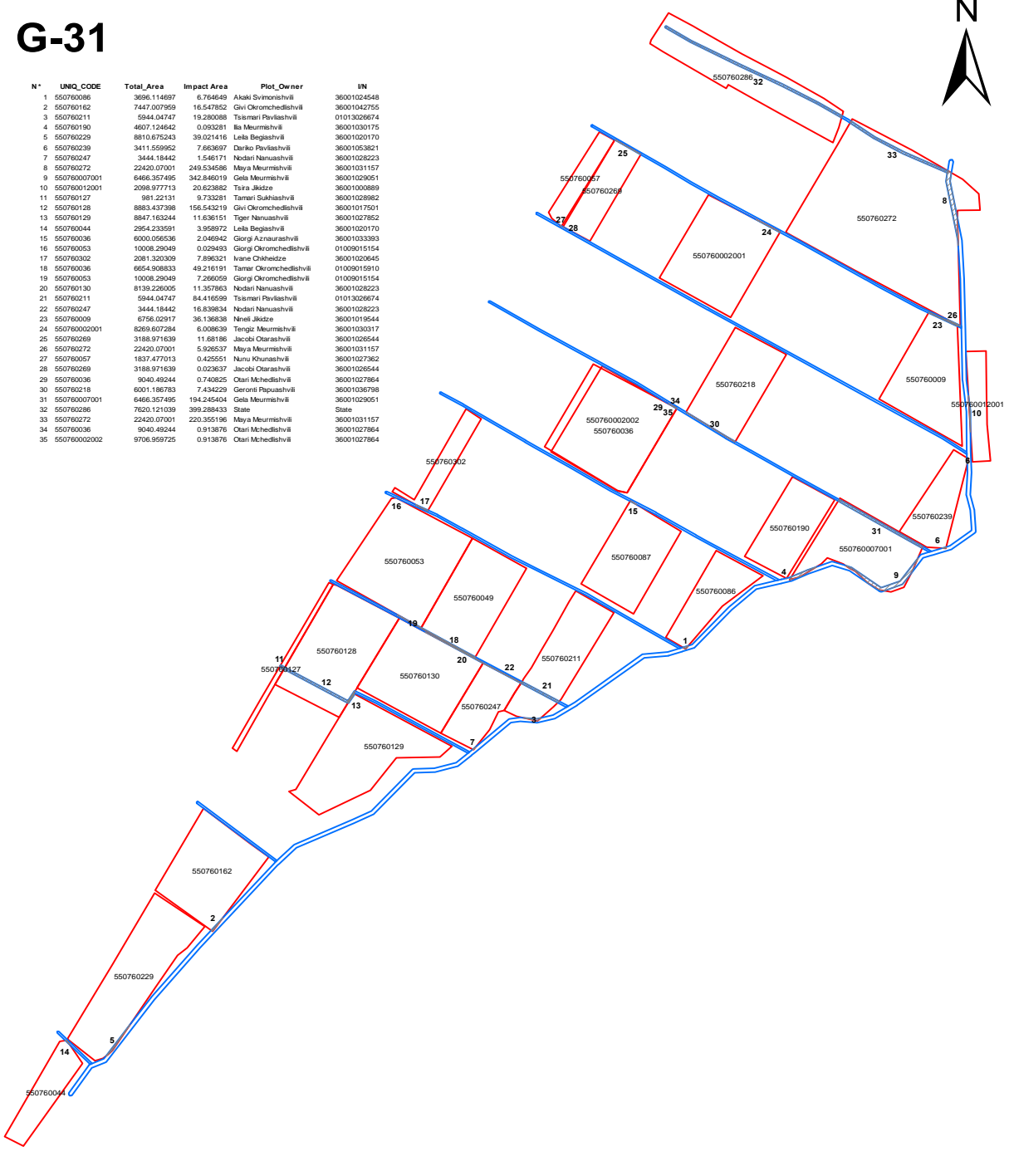


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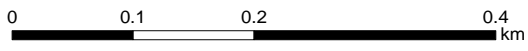
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G-31

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2	550760162	7447.007959	16.547852	Givi Okromchedishvili	36001042755
3	550760211	5944.04747	19.280088	Tskalmari Paviashvili	01013026674
4	550760190	4607.124642	0.093281	Ila Meurmishvili	36001030175
5	550760229	8810.675243	39.021416	Leila Begashvili	36001020170
6	550760239	3411.559552	7.603697	Dariko Paviashvili	36001053821
7	550760247	3444.18442	1.546171	Nodari Naruashvili	36001028223
8	550760272	22420.07001	249.534586	Maya Meurmishvili	36001031157
9	550760007001	6466.357495	342.846019	Gela Meurmishvili	36001029051
10	550760012001	2098.977713	20.623662	Tsira Skidze	36001000889
11	550760127	881.22131	9.733281	Tamari Sukhiasvili	36001028962
12	550760128	8883.437398	156.543219	Givi Okromchedishvili	36001017501
13	550760129	8847.183244	11.636151	Tiger Naruashvili	36001027852
14	550760044	2954.233991	3.598972	Leila Begashvili	36001020170
15	550760036	6000.066536	2.046942	Georgi Akmarashvili	36001033303
16	550760053	10008.29049	0.029493	Georgi Okromchedishvili	01009015154
17	550760302	2081.320309	7.896321	Ivane Chkheidze	36001020645
18	550760036	6654.908633	49.216191	Tamar Okromchedishvili	01009015910
19	550760053	10008.29049	7.286059	Georgi Okromchedishvili	01009015154
20	550760130	8139.226005	11.357863	Nodari Naruashvili	36001028223
21	550760211	5944.04747	84.416599	Tskalmari Paviashvili	01013026674
22	550760247	3444.18442	16.839834	Nodari Naruashvili	36001028223
23	550760009	6756.02917	36.136839	Nveri Skidze	36001013544
24	550760002001	8269.607284	6.008639	Tengiz Meurmishvili	36001030317
25	550760269	3188.971639	11.68186	Jacobi Otashvili	36001026544
26	550760272	22420.07001	5.526537	Maya Meurmishvili	36001031157
27	550760057	1837.477013	0.425551	Nana Khunashvili	36001027852
28	550760269	3188.971639	0.023637	Jacobi Otashvili	36001026544
29	550760036	9040.49244	0.740825	Otari Mchedlishvili	36001027864
30	550760218	6001.186783	7.434229	Geronti Papuashvili	36001036798
31	550760007001	6466.357495	194.245404	Gela Meurmishvili	36001029051
32	550760286	7620.121039	399.288433	State	State
33	550760272	22420.07001	220.355196	Maya Meurmishvili	36001031157
34	550760036	9040.49244	0.913876	Otari Mchedlishvili	36001027864
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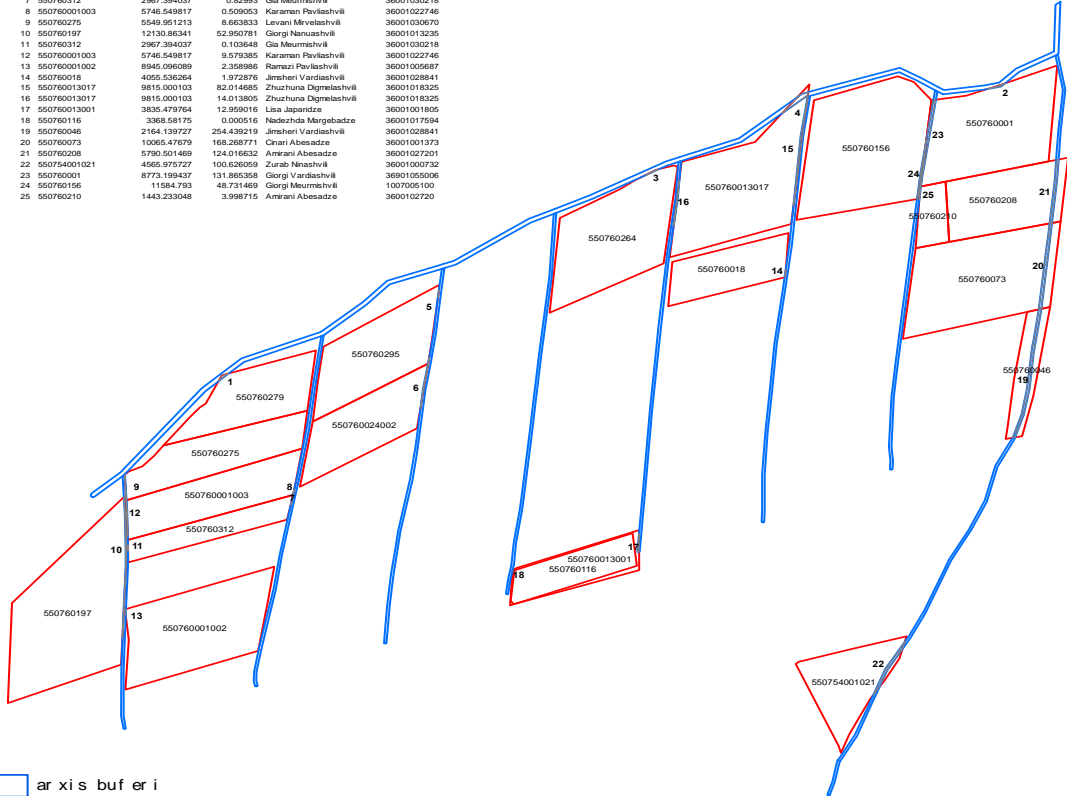


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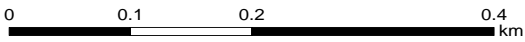


G-31'

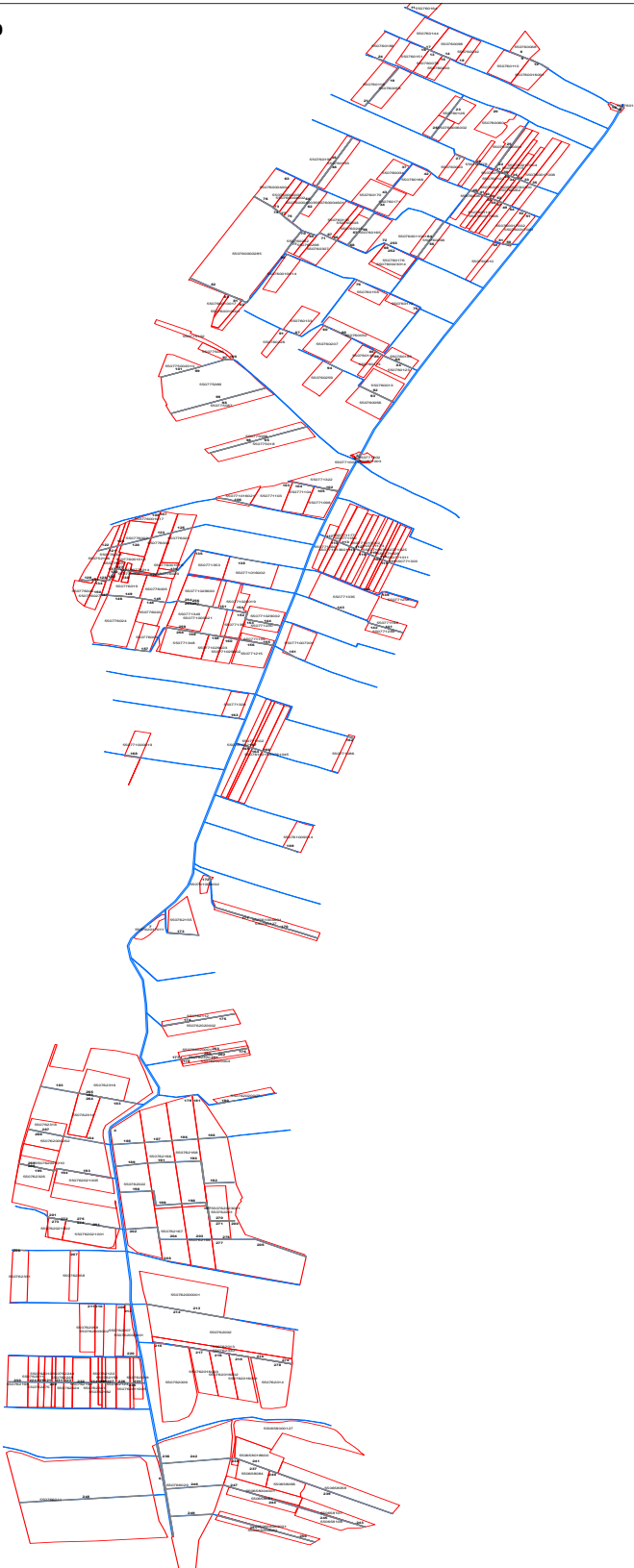
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3	550760264	8676.3644	2.894831	Imeda Filauri	36001002474
4	550760013017	9815.000103	75.584847	Zhuzhuna Digmelashvili	36001018325
5	550760295	6654.130213	0.795814	Mikheil Nanaushvili	36001012466
6	550760024002	5505.918166	17.299885	Alexi Kupatadze	36001032691
7	550760312	2967.394037	0.82993	Gia Meurmeshvili	36001030218
8	550760001003	5746.549817	0.509063	Karaman Pavlashvili	36001022746
9	550760275	5549.851213	8.663833	Levani Mvelashvili	36001030670
10	550760197	12130.86341	52.950781	Georgi Nanaushvili	36001013235
11	550760312	2967.394037	0.103848	Gia Meurmeshvili	36001030218
12	550760001003	5746.549817	9.579385	Karaman Pavlashvili	36001022746
13	550760001002	8945.096089	2.358986	Ramazi Pavlashvili	36001005687
14	550760018	4055.536264	1.972876	Jimsheri Vardashvili	36001028841
15	550760013017	9815.000103	82.014686	Zhuzhuna Digmelashvili	36001018325
16	550760013017	9815.000103	14.013805	Zhuzhuna Digmelashvili	36001018325
17	550760013001	3836.479764	12.959016	Lisa Japaridze	36001001805
18	550760116	3368.58175	0.000516	Nadzhda Margebadze	36001017594
19	550760046	2164.139727	25.439219	Jimsheri Vardashvili	36001028841
20	550760073	10065.47679	168.268771	Canan Abesadze	36001001373
21	550760208	5780.501469	124.016632	Anrani Abesadze	36001027201
22	550754001021	4565.975727	100.626059	Zurab Ninashvili	36001000732
23	550760001	8773.199437	131.865358	Georgi Vardashvili	36001055006
24	550760156	11584.793	48.731469	Georgi Meurmeshvili	1007005100
25	550760210	1443.233048	3.998715	Anrani Abesadze	3600102720



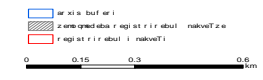
- არაქის ბუფერი
- ზემოქმედება რეგისტრირებულ ნაკვეთზე
- რეგისტრირებული ნაკვეთი

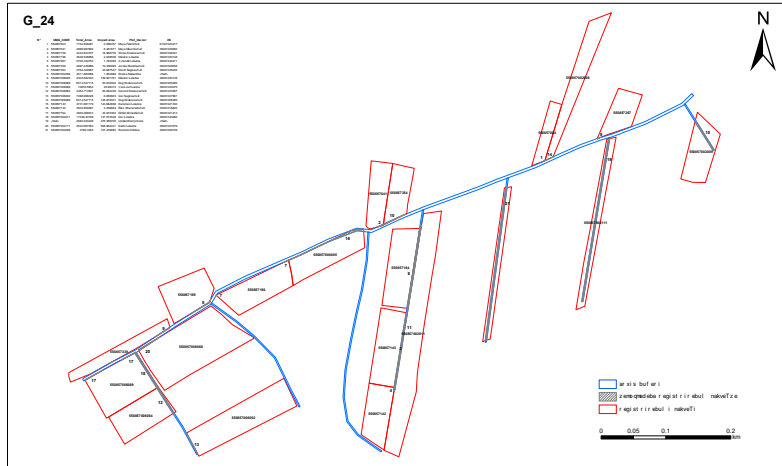


G-30



№	Имя объекта	№	Имя объекта	№	Имя объекта
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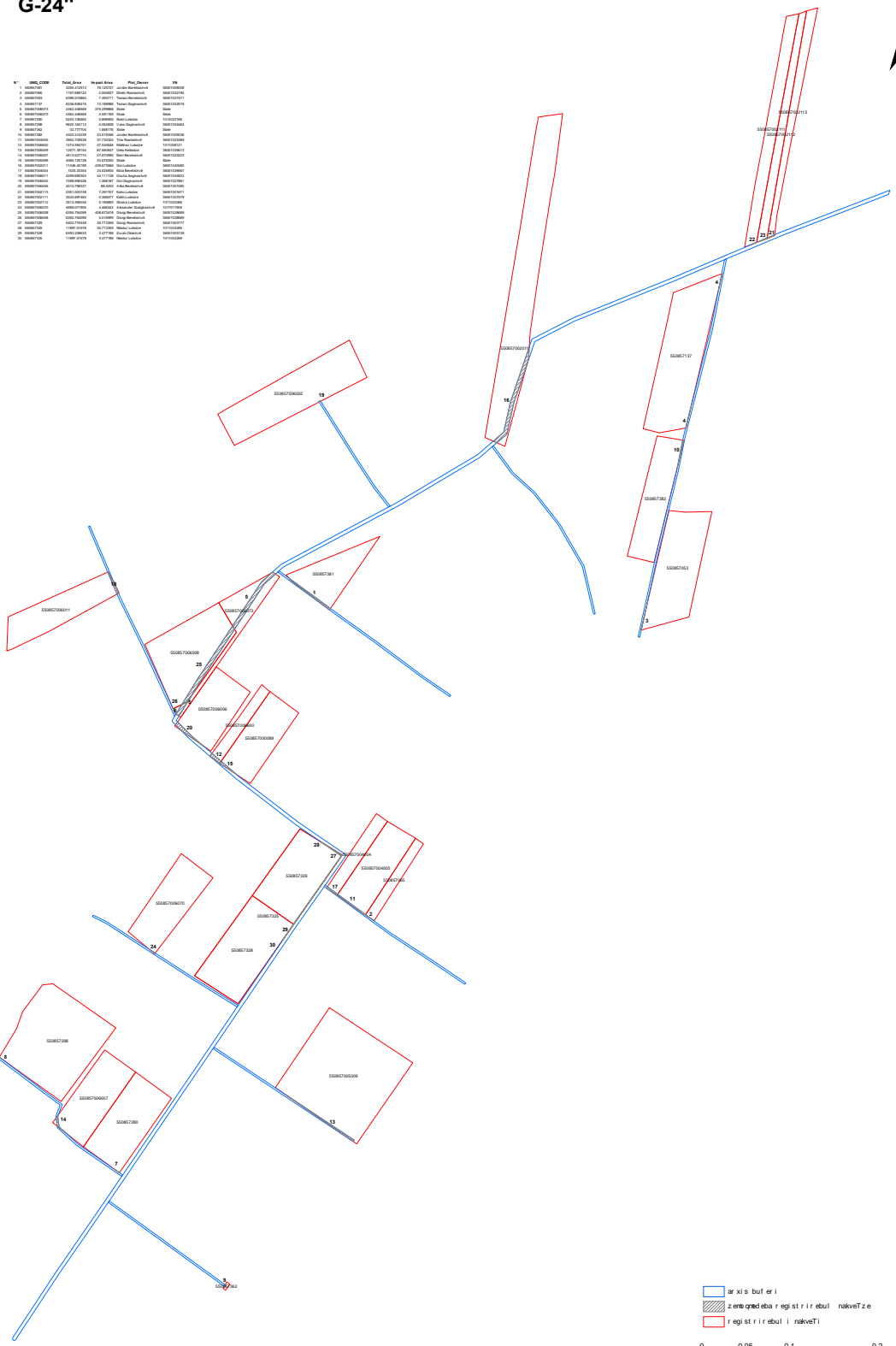




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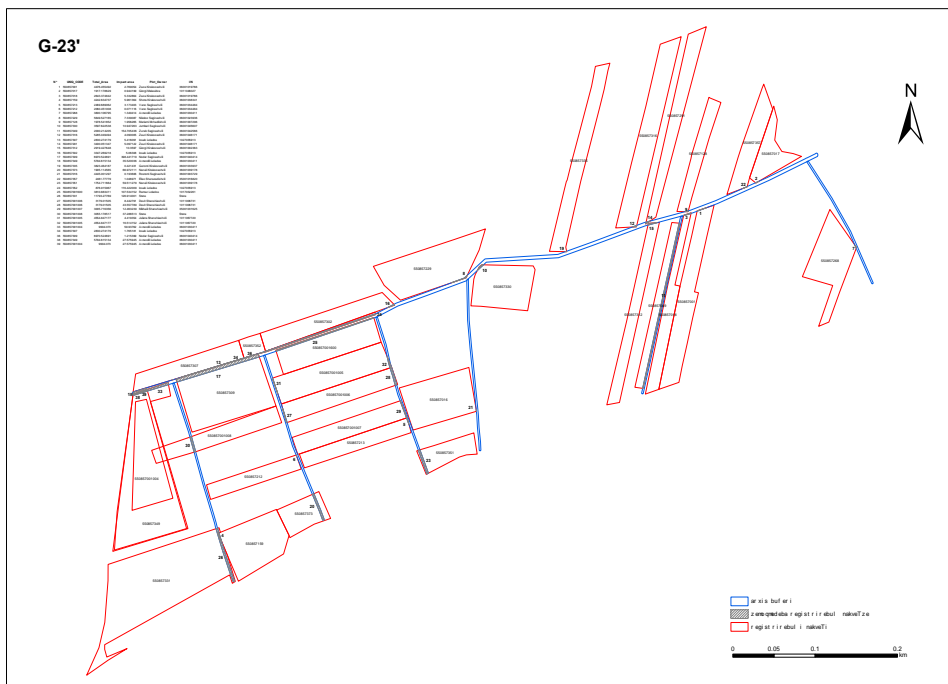
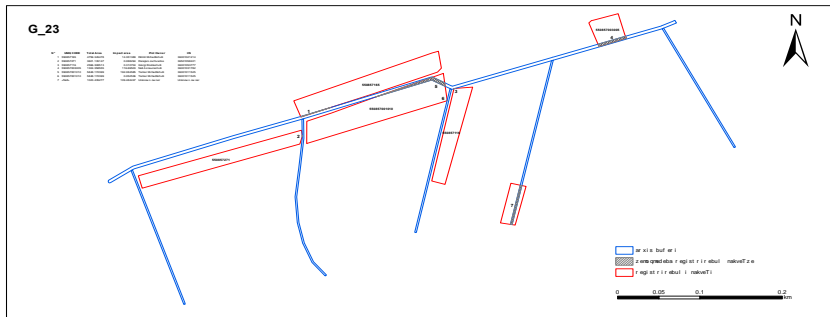


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Annex 3. Land plots affected below and over 10 percentage

Table 1. Private land plots affected by scale below 10%

Plot quantity	Identified plots	Ownership Status	Ownership status	Total area of the plot sqm	Affected plot sqm	Land impact scale %
1239	1227			17 252 318,36	162 786,36	0,94 (average)
1	1	owner	Registered	4 759,35	14,35	0,30
1	1	owner	Registered	3 601,14	0,09	0,00
1	1	owner	Registered	2 566,31	0,31	0,01
1	1	owner	Current registration	5 848,17	192,14	3,29
1	1	owner	Registered	4 476,46	2,77	0,06
1	1	owner	Registered	1 917,18	0,94	0,05
1	1	owner	Registered	2 643,37	5,33	0,20
1	1	the owner	Registered	2 469,69	3,17	0,13
1	1	the owner	Registered	2 060,45	0,07	0,00
1	1	the owner	Registered	5 649,53	7,34	0,13
1	1	the owner	Registered	1 978,54	1,96	0,10
1	1	the owner	Registered	2 000,21	154,71	7,73
1	1	the owner	Registered	2 830,27	7,18	0,25
1	1	the owner	registration process is terminated	3 400,05	5,10	0,15
1	1	the owner	Registered	2 919,43	10,36	0,35
1	1	the owner	Registered	3 347,27	5,06	0,15
1	1	the owner	Registered	6 970,52	401,42	5,76
1	1	the owner	registration process is terminated	5 794,62	63,10	1,09
1	1	the owner	Current registration	1 905,11	66,97	3,52
1	1	the owner	Registered	4 445,00	0,19	0,00
1	1	the owner	Registered	2 461,78	1,05	0,04
1	1	the owner	registration process is terminated	876,92	117,64	13,41
1	1	the owner	Registered	3 810,88	107,53	2,82
1	1	the owner	Registered	3 179,02	52,00	1,64
1	1	the owner	Registration is suspended	3 005,72	12,46	0,41
1	1	the owner	Registered	4 554,85	20,93	0,46
1	1	the owner	Additional documents needs	9 994,07	87,51	0,88
1	1	the owner	Registered	1 742,01	0,10	0,01
1	1	the owner	Registered	2 999,99	8,48	0,28
1	1	the owner	Current registration	3 503,86	4,26	0,12
1	1	the owner	Registered	4 528,55	2,04	0,05
1	1	the owner	Registered	2 700,43	1,72	0,06
1	1	the owner	Registered	2 897,25	10,46	0,36
1	1	the owner	Registered	2 764,35	23,69	0,86
1	1	the owner	Additional documents needed	11 046,40	577,23	5,23

1	1	the owner	Registered	7 499,00	7,43	0,10
1	1	the owner	Registered	4 511,86	1,85	0,04
1	1	the owner	Registered	4 303,58	159,94	3,72
1	1	the owner	Registered	6 014,55	147,69	2,46
1	1	the owner	Additional documents needs	3 542,70	509,33	14,38
1	1	the owner	Registered	10 833,57	30,99	0,29
1	1	the owner	registration process is terminated	3 255,41	78,12	2,40
1	1	the owner	Registered	1 197,69	2,59	0,22
1	1	the owner	Registered	6 396,51	7,49	0,12
1	1	the owner	Registered	5 243,13	0,90	0,02
1	1	the owner	Need additional documents	4 422,41	23,52	0,53
1	1	the owner	Need additional documents	1 274,59	47,54	3,73
1	1	the owner	Registered	4 513,53	27,67	0,61
1	1	the owner	Registered	4 065,12	33,58	0,83
1	1	the owner	Additional documents need	11 046,40	439,67	3,98
1	1	the owner	Registered	7 499,00	1,37	0,02
1	1	the owner	Registered	2 351,00	7,29	0,31
1	1	the owner	Additional documents needs	3 542,70	0,37	0,01
1	1	the owner	Additional documents needs	2 513,40	5,19	0,21
1	1	the owner	Registered	4 589,07	4,47	0,10
1	1	the owner	Registered	6 355,75	408,69	6,43
1	1	the owner	Registered	5 403,78	35,71	0,66
1	1	the owner	Registered	11 897,02	39,19	0,33
1	1	the owner	Registered	6 493,23	3,48	0,05
1	1	the owner	Registered	42 232,01	1,81	0,00
1	1	the owner	Registered	1 899,74	8,24	0,43
1	1	the owner	Registered	5 394,41	0,09	0,00
1	1	the owner	Registered	2 469,57	1,91	0,08
1	1	the owner	Registered	5 760,92	0,05	0,00
1	1	the owner	Registered	2 849,87	28,86	1,01
1	1	the owner	Registered	8 252,59	95,86	1,16
1	1	the owner	Registered	9 941,78	205,27	2,06
1	1	the owner	Registered	6 109,61	61,97	1,01
1	1	the owner	Registered	8 439,73	15,57	0,18
1	1	the owner	Registered	7 264,06	76,04	1,05
1	1	the owner	Registered	3 960,05	363,24	9,17
1	1	the owner	Registered	6 304,37	100,99	1,60
1	1	the owner	Registered	8 096,57	138,97	1,72
1	1	the owner	Registered	9 586,55	106,01	1,11
1	1	the owner	Registered	3 730,88	58,58	1,57
1	1	the owner	Registered	13 765,54	368,19	2,67
1	1	the owner	Registered	11 764,53	123,13	1,05
1	1	the owner	Registered	8 574,56	0,03	0,00

1	1	the owner	Registered	9 481,70	102,95	1,09
1	1	the owner	Registered	25 880,03	497,30	1,92
1	1	the owner	Registered	21 089,99	0,08	0,00
1	1	the owner	Registered	8 469,68	265,52	3,13
1	1	the owner	Registered	9 701,55	18,33	0,19
1	1	the owner	Registered	21 312,65	3,03	0,01
1	1	the owner	Registered	5 676,55	4,48	0,08
1	1	the owner	Registered	12 011,75	0,04	0,00
1	1	the owner	Registered	21 034,85	69,90	0,33
1	1	the owner	Registered	5 819,17	78,11	1,34
1	1	the owner	Registered	3 999,61	36,53	0,91
1	1	the owner	Registered	7 247,19	98,85	1,36
1	1	the owner	Registered	2 071,65	14,81	0,71
1	1	the owner	Registered	5 000,17	54,03	1,08
1	1	the owner	Registered	5 470,07	122,39	2,24
1	1	the owner	Registered	38 499,00	448,15	1,16
1	1	the owner	Registered	87 499,26	1 497,91	1,71
1	1	the owner	Registered	6 137,63	0,14	0,00
1	1	the owner	Registered	70 000,22	729,42	1,04
1	1	the owner	Registered	5 555,01	32,20	0,58
1	1	the owner	Registered	4 200,33	0,55	0,01
1	1	the owner	Registered	15 097,29	109,80	0,73
1	1	the owner	Registered	5 881,69	77,72	1,32
1	1	the owner	Rejection of registration	20 008,93	464,03	2,32
1	1	the owner	Registered	4 850,24	45,40	0,94
1	1	the owner	Registered	2 177,69	10,16	0,47
1	1	the owner	Registered	225 340,48	3 763,01	1,67
1	1	the owner	Additional documents needs	2 602,67	14,69	0,56
1	1	the owner	Additional documents needs	1 281,28	0,04	0,00
1	1	the owner	Registered	2 414,31	14,08	0,58
1	1	the owner	Registered	87 499,93	642,50	0,73
1	1	the owner	Registered	1 988,31	36,01	1,81
1	1	the owner	Registered	30 007,38	7,69	0,03
1	1	the owner	Registered	20 004,13	422,99	2,11
1	1	the owner	Registered	2 841,77	17,94	0,63
1	1	the owner	Registered	13 326,93	533,48	4,00
1	1	the owner	Registered	8 327,76	155,66	1,87
1	1	the owner	Registered	46 770,37	137,36	0,29
1	1	the owner	Registered	25 389,38	983,67	3,87
1	1	the owner	registration process is terminated	6 744,99	13,57	0,20
1	1	the owner	registration process is terminated	8 944,17	52,11	0,58
1	1	the owner	Registered	3 014,11	27,04	0,90
1	1	the owner	Additional documents needs	9 850,00	67,16	0,68

1	1	the owner	Additional documents needs	12 426,85	67,16	0,54
1	1	the owner	Additional documents needs	12 500,14	44,75	0,36
1	1	the owner	Registered	395,54	1,62	0,41
1	1	the owner	Registered	70 000,06	1 024,17	1,46
1	1	the owner	Registered	33 393,89	144,34	0,43
1	1	the owner	Registered	5 894,05	21,96	0,37
1	1	the owner	Registered	49 860,00	533,02	1,07
1	1	the owner	Registered	32 499,99	2,45	0,01
1	1	the owner	Registered	75 000,00	695,88	0,93
1	1	the owner	Registered	62 200,01	1 244,21	2,00
1	1	the owner	Registered	70 000,00	505,78	0,72
1	1	the owner	Registered	105 000,02	1 022,99	0,97
1	1	the owner	Registered	2 852,20	0,70	0,02
1	1	the owner	registration process is terminated	10 445,17	9,87	0,09
1	1	the owner	Registered	40 000,28	291,79	0,73
1	1	the owner	Registered	4 602,03	43,97	0,96
1	1	the owner	Registered	9 501,46	216,33	2,28
1	1	the owner	Registered	14 939,40	7,09	0,05
1	1	the owner	Registered	6 874,78	67,71	0,98
		Co-owner the owner				
1	1	the owner	Registered	61 611,99	488,94	0,79
1	1	the owner	Registered	200 000,49	2 162,64	1,08
1	1	the owner	Registered	9 985,61	115,80	1,16
1	1	the owner	Registered	7 836,15	45,32	0,58
1	1	the owner	Registered	6 000,02	9,82	0,16
1	1	the owner	Registered	2 559,64	8,33	0,33
1	1	the owner	Registered	7 283,28	70,40	0,97
1	1	the owner	Registered	1 493,23	1,29	0,09
1	1	the owner	Registered	2 095,00	0,37	0,02
1	1	the owner	Registered	40 540,01	294,99	0,73
1	1	the owner	Registered	8 890,01	83,47	0,94
1	1	the owner	Registered	9 464,09	98,50	1,04
1	1	the owner	Registered	5 822,38	56,97	0,98
1	1	the owner	Registered	5 817,03	57,36	0,99
1	1	the owner	Registered	245 000,37	2 969,06	1,21
1	1	the owner	Registered	6 537,14	64,84	0,99
1	1	the owner	Unregistered	4 957,98	33,47	0,68
1	1	the owner	Registered	2 856,55	0,21	0,01
1	1	the owner	Registered	13 445,25	6,04	0,04
1	1	the owner	Registered	908,65	63,00	6,93
1	1	the owner	Registered	7 702,66	61,06	0,79
1	1	the owner	Registered	2 773,49	128,30	4,63
1	1	the owner	Registered	6 500,33	6,63	0,10
1	1	the owner	Registered	4 000,33	45,23	1,13

1	1	the owner	Registered	2 500,09	37,59	1,50
1	1	the owner	Registered	3 558,00	24,03	0,68
1	1	the owner	Registered	11 371,59	43,03	0,38
1	1	the owner	Registered	5 698,62	38,48	0,68
1	1	the owner	Registered	5 988,90	56,52	0,94
1	1	the owner	Registered	3 295,80	2,70	0,08
1	1	the owner	Registered	9 918,16	48,70	0,49
1	1	the owner	Registered	48 150,07	17,89	0,04
1	1	the owner	Registered	20 176,40	190,84	0,95
1	1	the owner	Registered	3 826,85	0,02	0,00
1	1	the owner	Registered	9 740,78	66,15	0,68
1	1	the owner	Registered	14 338,01	136,23	0,95
1	1	the owner	Registered	4 965,82	33,46	0,67
1	1	the owner	Registered	3 500,40	1,32	0,04
1	1	the owner	Registered	8 104,66	3,04	0,04
1	1	the owner	Registered	20 005,11	0,18	0,00
1	1	the owner	Registered	3 929,19	38,58	0,98
1	1	the owner	Registered	2 490,25	1,51	0,06
1	1	the owner	Registered	49 694,03	5,09	0,01
1	1	the owner	Registered	87 267,03	614,54	0,70
1	1	the owner	Registered	71 162,03	61,86	0,09
1	1	the owner	Registered	83 794,01	741,33	0,88
1	1	the owner	Registered	1 926,54	18,02	0,94
1	1	the owner	Registered	4 946,23	33,47	0,68
1	1	the owner	Registered	5 919,71	0,48	0,01
1	1	the owner	Registered	13 412,37	146,92	1,10
1	1	the owner	Registered	5 582,87	55,64	1,00
1	1	the owner	Registered	3 275,58	53,62	1,64
1	1	the owner	Registered	5 096,29	33,75	0,66
1	1	the owner	Registered	3 806,55	29,67	0,78
1	1	the owner	Registered	10 773,89	82,66	0,77
1	1	the owner	Registered	2 199,45	130,99	5,96
1	1	the owner	Registered	2 919,01	34,41	1,18
1	1	the owner	Registered	4 330,34	49,39	1,14
1	1	the owner	Registered	4 480,27	50,83	1,13
1	1	the owner	Registered	7 255,02	70,95	0,98
1	1	the owner	Registered	54 999,80	719,98	1,31
1	1	the owner	Registered	3 284,79	40,65	1,24
1	1	the owner	Registered	11 993,80	80,41	0,67
1	1	the owner	Registered	9 074,15	4,55	0,05
1	1	the owner	Registered	5 996,65	39,88	0,67
1	1	the owner	Registered	4 238,28	28,00	0,66
1	1	the owner	Registered	4 800,41	31,61	0,66
1	1	the owner	Registered	4 129,30	17,54	0,42
1	1	the owner	Registered	2 099,83	13,79	0,66

1	1	the owner	Registered	6 728,33	125,73	1,87
1	1	the owner	Registered	4 230,61	28,00	0,66
1	1	the owner	Registered	4 220,44	27,70	0,66
1	1	the owner	Registered	4 337,56	42,42	0,98
1	1	the owner	Additional documents needs	11 330,87	6,95	0,06
1	1	the owner	Registered	9 567,62	137,17	1,43
1	1	the owner	Registered	12 541,28	1,54	0,01
1	1	the owner	Registered	2 162,98	0,01	0,00
1	1	the owner	Registered	8 849,71	167,32	1,89
1	1	the owner	Registered	15 806,91	347,25	2,20
1	1	the owner	Registered	49 941,99	368,25	0,74
1	1	the owner	Registered	100 000,38	740,59	0,74
1	1	the owner	Registered	3 000,39	4,22	0,14
1	1	the owner	Additional documents needed	12 000,64	77,16	0,64
1	1	the owner	Registered	12 700,38	119,97	0,94
1	1	the owner	Additional documents needs	12 400,33	224,10	1,81
1	1	the owner	Rejection of registration	2 767,95	30,29	1,09
1	1	the owner	Additional documents needed	8 683,90	7,77	0,09
1	1	the owner	Additional documents needs	8 000,46	59,39	0,74
1	1	the owner	Additional documents needs	10 399,86	140,34	1,35
1	1	the owner	Registered	8 300,23	80,69	0,97
1	1	the owner	Registered	7 672,26	0,07	0,00
1	1	the owner	Additional documents needs	10 944,04	225,35	2,06
1	1	the owner	Registered	8 900,35	81,11	0,91
1	1	the owner	Registered	5 800,25	80,14	1,38
1	1	the owner	Current registration	10 008,32	172,30	1,72
1	1	the owner	Registered	7 881,67	22,34	0,28
1	1	the owner	Registered	70 000,08	506,92	0,72
1	1	the owner	Additional documents needs	12 000,01	131,08	1,09
1	1	the owner	Additional documents needs	1 950,90	0,06	0,00
1	1	the owner	Registered	2 224,57	12,52	0,56
1	1	the owner	Registered	2 297,64	0,01	0,00
1	1	the owner	Registered	8 164,62	60,54	0,74
1	1	the owner	Additional documents needs	4 269,77	14,44	0,34
1	1	the owner	Registered	4 812,72	20,41	0,42
1	1	the owner	Registered	3 916,62	59,48	1,52
1	1	the owner	Registered	2 008,86	8,91	0,44
1	1	the owner	Registered	801,04	3,05	0,38
1	1	the owner	Registered	3 957,87	21,63	0,55
1	1	the owner	Registered	3 567,81	0,02	0,00
1	1	the owner	Registered	6 200,84	101,31	1,63
1	1	the owner	Registered	3 421,40	0,35	0,01

1	1	the owner	Additional documents needs	1 684,50	1,58	0,09
1	1	the owner	Registered	3 864,85	37,70	0,98
1	1	the owner	Registered	1 602,08	15,71	0,98
		the owner				
1	1	the owner	Registered	4 131,92	10,01	0,24
1	1	the owner	Registered	2 933,33	15,55	0,53
1	1	the owner	Registered	3 400,55	0,19	0,01
1	1	the owner	Registered	9 603,70	243,61	2,54
1	1	the owner	Additional documents needs	3 363,45	70,78	2,10
1	1	the owner	Registered	2 735,46	0,04	0,00
1	1	the owner	Registered	3 453,68	19,82	0,57
1	1	the owner	Registered	5 697,58	2,01	0,04
1	1	the owner	Registered	2 455,18	40,59	1,65
1	1	the owner	Registered	4 600,86	0,08	0,00
1	1	the owner	Registered	7 096,55	28,45	0,40
1	1	the owner	Registered	9 216,61	7,62	0,08
1	1	the owner	Registered	6 266,04	108,45	1,73
1	1	the owner	Registered	10 666,18	96,28	0,90
1	1	the owner	Registered	3 681,80	0,09	0,00
1	1	the owner	Registered	3 955,32	18,34	0,46
1	1	the owner	Additional documents needs	6 047,96	82,01	1,36
1	1	the owner	Additional documents needs	9 849,52	69,43	0,70
1	1	the owner	Registered	10 086,05	7,17	0,07
1	1	the owner	Registered	7 892,18	105,61	1,34
1	1	the owner	Additional documents needs	9 850,28	34,76	0,35
1	1	the owner	Additional documents needed	9 850,10	65,90	0,67
1	1	the owner	Plot to be registered	4 325,95	34,87	0,81
1	1	the owner	Plot to be registered	15 359,40	30,34	0,20
1	1	the owner	Plot to be registered	4 539,61	38,27	0,84
1	1	the owner	Plot to be registered	4 455,10	54,02	1,21
1	1	the owner	Plot to be registered	4 644,00	64,94	1,40
1	1	the owner	Plot to be registered	14 741,75	201,11	1,36
1	1	the owner	registration process is terminated	12 500,03	55,67	0,45
1	1	the owner	registration process is terminated	12 500,31	55,51	0,44
1	1	the owner	registration process is terminated	12 499,55	34,00	0,27
1	1	the owner	registration process is terminated	12 500,07	65,22	0,52
1	1	the owner	registration process is terminated	12 500,28	61,32	0,49
1	1	the owner	registration process is terminated	12 500,01	59,82	0,48
1	1	the owner	Additional documents need	8 944,02	98,46	1,10
1	1	the owner	Rejection of registration	7 677,18	0,57	0,01
1	1	the owner	Additional documents needs	9 305,36	162,50	1,75

1	1	the owner	Additional documents needs	10 424,15	142,97	1,37
1	1	the owner	registration process is terminated	12 500,33	75,22	0,60
1	1	the owner	Additional documents needs	11 987,74	437,52	3,65
1	1	the owner	registration process is terminated	6 745,03	11,29	0,17
1	1	the owner	Registered	2 051,56	76,29	3,72
1	1	the owner	Additional documents need	9 091,52	49,71	0,55
1	1	the owner	Additional documents need	9 999,60	73,17	0,73
1	1	the owner	Additional documents need	14 835,83	1,57	0,01
1	1	the owner	Additional documents need	10 000,06	68,75	0,69
1	1	the owner	registration process is terminated	8 943,72	68,14	0,76
1	1	the owner	Registered	12 726,14	75,40	0,59
1	1	the owner	Registered	4 460,16	75,40	1,69
1	1	the owner	registration process is terminated	6 371,46	88,40	1,39
1	1	the owner	registration process is terminated	10 000,38	55,54	0,56
1	1	the owner	Rejection of registration	10 000,38	55,54	0,56
1	1	the owner	Additional documents need	12 500,17	7,48	0,06
1	1	the owner	Additional documents need	12 500,14	44,76	0,36
1	1	the owner	Registered	8 003,91	57,48	0,72
1	1	the owner	Registered	6 750,04	18,23	0,27
1	1	the owner	Registered	7 078,33	105,39	1,49
1	1	the owner	Registered	16 359,55	555,27	3,39
1	1	the owner	Registered	36 672,28	573,88	1,56
1	1	the owner	Registered	6 200,84	42,36	0,68
1	1	the owner	Additional documents needs	8 550,36	122,94	1,44
1	1	the owner	Registered	14 593,78	2,11	0,01
1	1	the owner	Registered	1 734,21	175,40	10,11
1	1	the owner	Registered	32,67	6,39	19,55
1	1	the owner	Registered	1 207,74	134,79	11,16
1	1	the owner	Registered	2 456,69	0,28	0,01
1	1	the owner	Registered	1 152,14	1,49	0,13
1	1	the owner	Additional documents need	4 023,16	118,09	2,94
1	1	the owner	Registered	9 488,95	62,16	0,66
1	1	the owner	Registered	3 918,89	25,06	0,64
1	1	the owner	Registered	8 980,25	59,44	0,66
1	1	the owner	Registered	7 314,01	65,96	0,90
1	1	the owner	Registered	9 620,23	68,01	0,71
1	1	the owner	Registered	3 800,01	44,48	1,17
1	1	the owner	Registered	3 199,77	69,40	2,17
1	1	the owner	Additional documents need	10 353,41	69,91	0,68
1	1	the owner	Registered	34 749,29	318,79	0,92
1	1	the owner	Registered	6 445,07	2,79	0,04

1	1	the owner	Registered	1 986,66	53,03	2,67
1	1	the owner	Registered	1 816,09	24,01	1,32
1	1	the owner	Additional documents need	2 506,72	61,90	2,47
1	1	the owner	Registered	1 493,23	1,29	0,09
1	1	the owner	Registered	3 284,79	40,65	1,24
1	1	the owner	Registered	8 327,76	75,26	0,90
1	1	the owner	Registered	4 602,03	43,97	0,96
1	1	the owner	Registered	1 926,54	18,02	0,94
1	1	the owner	Registered	2 185,77	83,16	3,80
1	1	the owner	Registered	3 014,11	27,04	0,90
1	1	the owner	Registered	2 852,20	0,70	0,02
1	1	the owner	Registered	2 575,76	18,30	0,71
1	1	the owner	Additional documents need	4 000,90	32,94	0,82
1	1	the owner	Current registration	561,30	13,97	2,49
1	1	the owner	Additional documents need	3 483,59	5,64	0,16
1	1	the owner	Registered	2 556,70	1,01	0,04
1	1	the owner	Registered	9 300,08	0,00	0,00
1	1	the owner	Registered	6 083,92	1,10	0,02
1	1	the owner	Registered	801,04	14,98	1,87
1	1	the owner	Registered	2 610,70	12,58	0,48
1	1	the owner	Additional documents need	2 632,59	24,34	0,92
1	1	the owner	Registered	3 577,25	10,98	0,31
1	1	the owner	Registered	2 848,08	2,33	0,08
1	1	the owner	Additional documents need	1 200,44	0,00	0,00
1	1	the owner	Registered	3 279,73	44,94	1,37
1	1	the owner	Registered	2 505,05	42,66	1,70
1	1	the owner	Registered	9 651,94	107,72	1,12
1	1	the owner	Registered	8 323,67	555,09	6,67
1	1	the owner	Registered	1 002,56	14,71	1,47
1	1	the owner	Registered	1 669,76	25,70	1,54
1	1	the owner	Registered	1 707,97	0,84	0,05
1	1	the owner	registration process is terminated	2 990,18	30,52	1,02
1	1	the owner	Additional documents need	1 956,41	24,82	1,27
1	1	the owner	Registered	1 620,12	0,02	0,00
1	1	the owner	Registered	1 902,44	40,35	2,12
1	1	the owner	Registered	1 824,45	46,64	2,56
1	1	the owner	Registered	1 866,31	2,52	0,14
1	1	the owner	Registered	2 181,56	12,62	0,58
1	1	the owner	Registered	1 315,46	6,63	0,50
1	1	the owner	Registered	2 190,08	10,15	0,46
1	1	the owner	Registered	4 139,46	59,50	1,44
1	1	the owner	Registration suspended	2 190,32	16,33	0,75
1	1	the owner	Additional documents need	3 396,43	122,18	3,60

1	1	the owner	Registered	871,48	63,20	7,25
1	1	the owner	Registered	1 102,95	2,77	0,25
1	1	the owner	Registered	1 512,91	22,50	1,49
1	1	the owner	Registered	3 911,67	1,17	0,03
1	1	the owner	Registered	2 316,84	41,59	1,80
1	1	the owner	Registered	2 770,59	37,93	1,37
1	1	the owner	Registered	8 360,86	7,45	0,09
1	1	the owner	Registered	2 913,16	35,83	1,23
1	1	the owner	Additional documents needed	1 502,83	35,19	2,34
1	1	the owner	Registered	1 942,83	6,83	0,35
1	1	the owner	Registered	1 152,39	0,88	0,08
1	1	the owner	Registered	3 062,63	64,76	2,11
1	1	the owner	Current registration	3 608,15	29,51	0,82
1	1	the owner	Registered	2 135,50	35,16	1,65
1	1	the owner	Registered	1 859,53	15,37	0,83
1	1	the owner	Registered	2 729,74	30,61	1,12
1	1	the owner	Registered	520,44	0,40	0,08
1	1	the owner	Registered	2 965,32	0,61	0,02
1	1	the owner	Registered	1 000,01	0,20	0,02
1	1	the owner	Registered	5 308,03	85,89	1,62
1	1	the owner	Registered	1 799,55	92,61	5,15
1	1	the owner	Registered	2 800,22	12,56	0,45
1	1	the owner	Registered	953,56	2,71	0,28
1	1	the owner	Additional documents needed	4 392,22	5,01	0,11
1	1	the owner	Registered	1 371,95	11,12	0,81
1	1	the owner	Additional documents needs	3 709,83	83,54	2,25
1	1	the owner	Registered	2 808,61	135,67	4,83
1	1	the owner	Additional documents need	927,67	4,96	0,53
1	1	the owner	Additional documents needs	3 276,63	208,45	6,36
1	1	the owner	Additional documents need	11 000,31	190,26	1,73
1	1	the owner	Registered	9 001,33	14,08	0,16
1	1	the owner	Registered	1 823,21	91,43	5,01
1	1	the owner	Registered	5 998,00	24,17	0,40
1	1	the owner	Registered	1 359,78	52,22	3,84
1	1	the owner	Additional documents needs	2 144,42	37,02	1,73
1	1	the owner	Registered	11 065,08	255,33	2,31
1	1	the owner	Registered	6 999,63	0,02	0,00
1	1	the owner	Registered	8 379,60	2,53	0,03
1	1	the owner	Registered	6 492,67	233,23	3,59
1	1	the owner	Registered	30 000,04	200,29	0,67
1	1	the owner	Registered	1 906,25	7,42	0,39
1	1	the owner	Registered	53 006,49	677,23	1,28
1	1	the owner	Registered	4 144,62	10,52	0,25

1	1	the owner	Registered	9 991,26	2,91	0,03
1	1	the owner	Registered	9 263,58	0,28	0,00
1	1	the owner	Registered	3 657,68	0,00	0,00
1	1	the owner	Additional documents needs	8 345,10	269,00	3,22
1	1	the owner	Registered	6 999,66	22,47	0,32
1	1	the owner	Additional documents needs	6 799,60	5,04	0,07
1	1	the owner	Registered	50 000,02	110,49	0,22
1	1	the owner	Registered	64 499,99	763,68	1,18
1	1	the owner	Registered	130 000,01	472,65	0,36
1	1	the owner	Registered	8 853,59	57,63	0,65
1	1	the owner	Registered	7 087,31	46,31	0,65
1	1	the owner	Registered	5 967,02	38,95	0,65
1	1	the owner	Registered	5 263,07	35,07	0,67
1	1	the owner	Registered	2 707,96	17,80	0,66
1	1	the owner	Registered	11 404,10	75,94	0,67
1	1	the owner	Registered	8 400,40	94,72	1,13
1	1	the owner	Registered	9 420,38	64,99	0,69
1	1	the owner	Registered	12 219,85	83,47	0,68
1	1	the owner	Additional documents needs	10 913,81	63,38	0,58
1	1	the owner	Plot to be registered	17 289,40	81,86	0,47
1	1	the owner	Registered	9 964,46	73,61	0,74
1	1	the owner	Registered	2 490,25	0,77	0,03
1	1	the owner	Registered	60 000,43	494,08	0,82
1	1	the owner	Registered	32 499,99	514,60	1,58
1	1	the owner	Registered	39 999,14	482,58	1,21
1	1	the owner	registration process is terminated	12 500,06	481,99	3,86
1	1	the owner	Registered	5 455,78	35,40	0,65
1	1	the owner	Registered	2 799,77	2,38	0,09
1	1	the owner	Registered	8 164,62	70,93	0,87
1	1	the owner	Registered	13 064,16	337,66	2,58
1	1	the owner	Registered	8 197,76	0,02	0,00
1	1	the owner	Registered	7 629,20	76,86	1,01
1	1	the owner	Registered	2 255,66	27,28	1,21
1	1	the owner	Registered	3 648,47	0,00	0,00
1	1	the owner	Registered	8 415,80	0,38	0,00
1	1	the owner	Additional documents needs	3 524,89	0,31	0,01
1	1	the owner	Additional documents needs	4 703,21	0,71	0,02
1	1	the owner	Registered	5 758,00	6,89	0,12
1	1	the owner	Registered	11 593,23	6,85	0,06
1	1	the owner	Registered	1 607,75	6,11	0,38
1	1	the owner	Additional documents needs	7 936,63	35,25	0,44
1	1	the owner	Registered	7 621,83	0,18	0,00
1	1	the owner	Registered	4 214,32	5,11	0,12

1	1	the owner	Registered	2 606,91	0,01	0,00
1	1	the owner	Registered	3 868,51	0,14	0,00
1	1	the owner	Registered	5 577,29	4,60	0,08
1	1	the owner	Registered	6 304,56	60,15	0,95
1	1	the owner	Registered	1 754,21	7,35	0,42
1	1	the owner	Registered	6 658,93	64,03	0,96
1	1	the owner	Registered	8 692,55	11,27	0,13
1	1	the owner	Additional documents needs	7 799,00	149,27	1,91
1	1	the owner	Current registration	4 109,85	32,06	0,78
1	1	the owner	Registered	8 058,02	4,06	0,05
1	1	the owner	Registered	2 300,01	35,15	1,53
1	1	the owner	Rejection of registration	750,36	16,93	2,26
1	1	the owner	Registered	2 612,97	14,11	0,54
1	1	the owner	Registered	2 053,57	26,62	1,30
1	1	the owner	Registered	3 348,00	33,54	1,00
1	1	the owner	Registered	3 049,84	17,58	0,58
1	1	the owner	Registered	4 999,99	0,02	0,00
1	1	the owner	Registered	5 000,27	15,76	0,32
1	1	the owner	Registered	5 000,12	364,64	7,29
1	1	the owner	Registered	5 656,30	36,50	0,65
1	1	the owner	Registered	9 629,56	418,81	4,35
1	1	the owner	Registered	9 800,21	59,56	0,61
1	1	the owner	Registered	10 050,66	145,55	1,45
1	1	the owner	Registered	5 938,97	81,64	1,37
1	1	the owner	Registered	6 561,62	46,12	0,70
1	1	the owner	Registered	2 708,04	18,92	0,70
1	1	the owner	Registered	7 146,12	23,63	0,33
1	1	the owner	Registered	2 614,76	19,60	0,75
1	1	the owner	Registered	10 868,82	535,47	4,93
1	1	the owner	Registered	2 980,25	109,48	3,67
1	1	the owner	Registered	4 461,50	47,23	1,06
1	1	the owner	Registered	4 710,02	393,05	8,34
1	1	the owner	Registered	4 974,43	6,03	0,12
1	1	the owner	Registered	7 500,31	150,71	2,01
1	1	the owner	Registered	4 000,29	63,94	1,60
1	1	the owner	Registered	12 111,63	0,59	0,00
1	1	the owner	Registered	2 462,42	0,12	0,00
1	1	the owner	Registered	2 463,43	3,82	0,15
1	1	the owner	Registered	9 323,36	40,23	0,43
1	1	the owner	Registered	6 810,39	124,93	1,83
1	1	the owner	Registered	6 734,56	106,99	1,59
1	1	the owner	Registered	7 400,09	5,78	0,08
1	1	the owner	Additional documents needs	7 170,19	28,54	0,40
1	1	the owner	Registered	9 921,64	73,72	0,74

1	1	the owner	Registered	2 124,55	252,21	11,87
1	1	the owner	Registered	2 404,13	298,03	12,40
1	1	the owner	Registered	11 429,86	358,50	3,14
1	1	the owner	Registered	8 333,52	43,29	0,52
1	1	the owner	Registered	2 100,16	13,35	0,64
1	1	the owner	Registered	5 398,64	65,91	1,22
1	1	the owner	Additional documents needs	4 268,47	2,79	0,07
1	1	the owner	Additional documents needs	6 267,26	183,38	2,93
1	1	the owner	Plot to be registered	3 920,96	69,41	1,77
1	1	the owner	Registered	7 259,41	0,42	0,01
1	1	the owner	Registered	3 021,05	51,64	1,71
1	1	the owner	Registered	6 675,03	22,41	0,34
1	1	the owner	Registered	7 350,26	0,32	0,00
1	1	the owner	Additional documents needs	6 047,07	1,93	0,03
1	1	the owner	Registered	4 337,63	67,95	1,57
1	1	the owner	Registered	2 444,05	46,77	1,91
1	1	the owner	Registered	4 350,88	1,18	0,03
1	1	the owner	Additional documents needs	7 471,53	17,19	0,23
1	1	the owner	Registered	8 993,33	1,15	0,01
1	1	the owner	Registered	5 028,89	29,38	0,58
1	1	the owner	Registered	2 408,04	7,18	0,30
1	1	the owner	Registered	11 276,09	259,94	2,31
1	1	the owner	Registered	3 064,65	42,14	1,38
1	1	the owner	Registered	4 157,56	10,66	0,26
1	1	the owner	Registered	12 244,64	127,62	1,04
1	1	the owner	Registered	5 290,31	1,85	0,04
1	1	the owner	Registered	3 800,00	5,79	0,15
1	1	the owner	Registered	3 875,40	36,77	0,95
1	1	the owner	Registered	10 464,67	100,67	0,96
1	1	the owner	Registered	6 929,44	81,42	1,18
1	1	the owner	Registered	5 543,90	0,88	0,02
1	1	the owner	Additional documents needs	2 885,69	127,67	4,42
1	1	the owner	Registered	10 334,13	71,30	0,69
1	1	the owner	Current registration	8 986,28	2,05	0,02
1	1	the owner	Registered	30 154,13	194,61	0,65
1	1	the owner	Registered	3 357,88	9,77	0,29
1	1	the owner	Registered	3 070,64	13,67	0,45
1	1	the owner	Registered	1 442,20	1,88	0,13
1	1	the owner	Registered	1 633,53	44,59	2,73
1	1	the owner	Registered	1 000,01	5,25	0,52
1	1	the owner	Additional documents needs	2 000,03	2,63	0,13
1	1	the owner	Registered	1 571,71	0,52	0,03
1	1	the owner	Registered	1 206,34	0,42	0,03

1	1	the owner	Registered	2 079,88	2,21	0,11
1	1	the owner	Registered	499,00	0,10	0,02
1	1	the owner	Registered	33 373,55	0,36	0,00
1	1	the owner	Registered	780,49	0,42	0,05
1	1	the owner	Registered	3 793,16	0,00	0,00
1	1	the owner	Registered	49 995,48	798,34	1,60
1	1	the owner	Registered	1 000,17	171,92	17,19
1	1	the owner	Registered	2 812,14	0,19	0,01
1	1	the owner	Registered	8 590,09	19,24	0,22
1	1	the owner	Registered	7 990,06	1,15	0,01
1	1	the owner	Registered	4 443,63	37,19	0,84
1	1	the owner	Registered	8 462,06	0,05	0,00
1	1	the owner	Registered	2 970,35	0,47	0,02
1	1	the owner	Registered	7 355,00	205,22	2,79
1	1	the owner	Registered	8 567,01	112,72	1,32
1	1	the owner	Registered	6 269,39	183,12	2,92
1	1	the owner	Registered	5 475,16	46,14	0,84
1	1	the owner	Registered	3 301,15	63,49	1,92
1	1	the owner	Registered	2 403,42	23,85	0,99
1	1	the owner	Registered	3 237,81	32,95	1,02
1	1	the owner	Registered	4 892,47	50,12	1,02
1	1	the owner	Registered	2 114,29	52,43	2,48
1	1	the owner	Registered	2 141,06	18,16	0,85
1	1	the owner	Registered	5 093,70	0,03	0,00
1	1	the owner	Registered	1 700,32	16,12	0,95
1	1	the owner	Registered	7 684,00	130,38	1,70
1	1	the owner	Registered	5 000,02	79,71	1,59
1	1	the owner	Registered	5 663,35	251,44	4,44
1	1	the owner	Registered	3 405,67	186,54	5,48
1	1	the owner	Registered	4 573,21	57,01	1,25
1	1	the owner	Additional documents needs	3 637,10	15,90	0,44
1	1	the owner	Current registration	2 813,61	9,30	0,33
1	1	the owner	Registered	3 447,26	153,51	4,45
1	1	the owner	Registered	8 998,32	156,48	1,74
1	1	the owner	Registered	4 341,21	117,86	2,72
1	1	the owner	Registered	3 164,64	0,00	0,00
1	1	the owner	Additional documents needs	3 286,34	88,23	2,68
1	1	the owner	Registered	5 156,41	162,95	3,16
1	1	the owner	Registered	8 921,00	53,16	0,60
1	1	the owner	Registered	4 030,11	164,80	4,09
1	1	the owner	Additional documents needs	1 970,10	10,55	0,54
1	1	the owner	Registered	2 752,35	32,40	1,18
1	1	the owner	Rejection of registration	2 491,18	75,77	3,04
1	1	the owner	Additional documents needs	6 695,88	44,10	0,66

1	1	the owner	Registered	10 239,52	1,98	0,02
1	1	the owner	Additional documents needs	3 301,91	7,15	0,22
1	1	the owner	Registered	2 972,67	15,90	0,53
1	1	the owner	Registered	5 197,36	28,46	0,55
1	1	the owner	Registered	7 511,76	21,62	0,29
1	1	the owner	Rejection of registration	2 809,59	16,21	0,58
1	1	the owner	Registered	8 771,51	70,59	0,80
1	1	the owner	Registered	9 002,73	152,94	1,70
1	1	the owner	Registered	7 988,28	23,04	0,29
1	1	the owner	Registered	13 100,38	359,78	2,75
1	1	the owner	Registered	6 388,84	234,43	3,67
1	1	the owner	Registered	2 402,34	19,57	0,81
1	1	the owner	Registered	10 188,52	292,87	2,87
1	1	the owner	Registered	38 252,33	502,98	1,31
1	1	the owner	registration process is terminated	4 149,35	5,61	0,14
1	1	the owner	Registered	8 470,95	3,80	0,04
1	1	the owner	Registered	7 503,81	47,18	0,63
1	1	the owner	Registered	12 499,80	119,32	0,95
1	1	the owner	Registered	1 992,82	0,83	0,04
1	1	the owner	Registered	4 718,99	33,54	0,71
1	1	the owner	Registered	5 080,25	35,99	0,71
1	1	the owner	Registered	4 678,55	34,33	0,73
1	1	the owner	Registered	4 924,96	36,06	0,73
1	1	the owner	Registered	5 561,30	39,25	0,71
1	1	the owner	Registered	5 201,26	38,07	0,73
1	1	the owner	Registered	4 927,00	36,68	0,74
1	1	the owner	registration process is terminated	4 603,48	82,65	1,80
1	1	the owner	registration process is terminated	8 000,57	162,72	2,03
1	1	the owner	Registered	4 075,22	141,20	3,46
1	1	the owner	Registered	10 339,59	124,80	1,21
1	1	the owner	Rejection of registration	2 537,84	265,72	10,47
1	1	the owner	Registered	1 373,75	34,35	2,50
1	1	the owner	Registered	1 259,24	30,91	2,45
1	1	the owner	registration process is terminated	4 078,61	18,67	0,46
1	1	the owner	Registered	7 585,91	99,68	1,31
1	1	the owner	registration process is terminated	3 562,81	16,73	0,47
1	1	the owner	registration process is terminated	9 600,20	4,53	0,05
1	1	the owner	Registered	1 465,49	8,98	0,61
1	1	the owner	Registered	3 656,87	33,01	0,90
1	1	the owner	Registered	13 631,51	38,29	0,28
1	1	the owner	Registered	2 598,03	2,36	0,09
1	1	the owner	Registered	3 427,42	107,86	3,15
1	1	the owner	Registered	3 264,58	107,75	3,30

1	1	the owner	Registered	19 623,85	4,42	0,02
1	1	the owner	Registered	2 958,57	136,68	4,62
1	1	the owner	Registered	6 378,53	54,58	0,86
1	1	the owner	Registered	7 441,77	94,43	1,27
1	1	the owner	Registered	21 304,79	96,10	0,45
1	1	the owner	Registered	4 407,02	67,27	1,53
1	1	the owner	Registered	2 614,61	0,86	0,03
1	1	the owner	Registered	4 789,83	25,34	0,53
1	1	the owner	Registered	4 547,31	71,61	1,57
1	1	the owner	Registered	4 233,13	82,02	1,94
1	1	the owner	Registered	8 582,35	80,08	0,93
1	1	the owner	Registered	5 215,80	2,67	0,05
1	1	the owner	Registered	12 585,48	61,46	0,49
1	1	the owner	Registered	7 000,60	34,09	0,49
1	1	the owner	Registered	7 905,31	38,74	0,49
1	1	the owner	Registered	3 182,68	15,79	0,50
1	1	the owner	Registered	5 969,75	39,22	0,66
1	1	the owner	registration process is terminated	7 400,26	316,11	4,27
1	1	the owner	Registered	1 743,61	35,13	2,02
1	1	the owner	Registered	9 074,93	167,27	1,84
1	1	the owner	registration process is terminated	5 951,44	394,71	6,63
1	1	the owner	Additional documents needs	6 084,02	200,64	3,30
1	1	the owner	Additional documents needs	5 671,59	200,62	3,54
1	1	the owner	Registered	32 520,07	557,73	1,72
1	1	the owner	Registered	10 100,01	113,10	1,12
1	1	the owner	Registered	32 479,94	593,90	1,83
1	1	the owner	Registered	17 479,94	177,38	1,01
1	1	the owner	Registered	17 520,07	213,02	1,22
1	1	the owner	Registered	5 030,09	2,96	0,06
1	1	the owner	Registered	5 025,25	0,03	0,00
1	1	the owner	Registered	8 536,38	0,10	0,00
1	1	the owner	Registered	50 000,06	243,25	0,49
1	1	the owner	Registered	30 000,01	228,14	0,76
1	1	the owner	Registered	30 000,02	40,84	0,14
1	1	the owner	Registered	18 000,02	77,03	0,43
1	1	the owner	Registered	10 000,03	90,50	0,91
1	1	the owner	Registered	10 000,19	83,17	0,83
1	1	the owner	Registered	2 007,97	20,00	1,00
1	1	the owner	Registered	5 022,11	48,94	0,97
1	1	the owner	Registered	6 028,27	58,89	0,98
1	1	the owner	Registered	3 501,01	34,29	0,98
1	1	the owner	Registered	8 030,21	78,79	0,98
1	1	the owner	Registered	6 112,95	59,98	0,98
1	1	the owner	Registered	2 010,04	21,07	1,05

1	1	the owner	Registered	5 023,15	49,33	0,98
1	1	the owner	Registered	10 041,68	100,04	1,00
1	1	the owner	Registered	4 734,55	44,82	0,95
1	1	the owner	Registered	16 574,37	596,20	3,60
1	1	the owner	Registered	6 176,86	23,98	0,39
1	1	the owner	Registered	6 400,36	324,94	5,08
1	1	the owner	Registered	7 000,43	391,38	5,59
1	1	the owner	Registered	8 400,73	101,12	1,20
1	1	the owner	Registered	130 000,01	774,13	0,60
1	1	the owner	Needs additional documents	9 999,95	83,39	0,83
1	1	the owner	Needs additional documents	11 056,65	119,11	1,08
1	1	the owner	Needs additional documents	12 500,04	68,88	0,55
1	1	the owner	registration process is terminated	12 499,92	18,16	0,15
1	1	the owner	registration process is terminated	11 299,91	211,18	1,87
1	1	the owner	Needs additional documents	8 200,26	101,41	1,24
1	1	the owner	Needs additional documents	12 368,01	211,41	1,71
1	1	the owner	Additional documents needs	4 000,06	90,96	2,27
1	1	the owner	Needs additional documents	12 490,86	98,57	0,79
1	1	the owner	registration process is terminated	8 113,67	150,34	1,85
1	1	the owner	Registered	3 696,11	6,76	0,18
1	1	the owner	Registered	5 944,05	103,70	1,74
1	1	the owner	Registered	4 607,12	0,09	0,00
1	1	the owner	Registered	8 810,68	39,02	0,44
1	1	the owner	Registered	3 444,18	18,39	0,53
1	1	the owner	Registered	22 420,07	475,82	2,12
1	1	the owner	Registered	6 466,36	537,09	8,31
1	1	the owner	Registered	2 098,98	20,62	0,98
1	1	the owner	Registered	8 883,44	156,54	1,76
1	1	the owner	Registered	2 954,23	3,96	0,13
1	1	the owner	Registered	10 008,29	7,30	0,07
1	1	the owner	Rejection of registration	2 081,32	7,90	0,38
1	1	the owner	Registered	8 139,23	11,36	0,14
1	1	the owner	Registered	6 756,03	36,14	0,53
1	1	the owner	Registered	8 269,61	6,01	0,07
1	1	the owner	Registered	3 188,97	11,71	0,37
1	1	the owner	Registered	1 837,48	0,43	0,02
1	1	the owner	Registered	6 001,19	7,43	0,12
1	1	the owner	Registered	8 773,20	145,01	1,65
1	1	the owner	Registered	8 676,36	2,89	0,03
1	1	the owner	Current registration	9 815,00	171,61	1,75
1	1	the owner	Registered	5 505,92	17,30	0,31
1	1	the owner	Registered	5 746,55	10,09	0,18

1	1	the owner	Registered	12 130,86	52,95	0,44
1	1	the owner	Registered	4 055,54	1,97	0,05
1	1	the owner	Registered	3 368,58	0,00	0,00
1	1	the owner	Registered	2 164,14	254,44	11,76
1	1	the owner	Registered	10 065,48	168,27	1,67
1	1	the owner	Registered	5 790,50	124,02	2,14
1	1	the owner	Registered	4 565,98	100,63	2,20
1	1	the owner	Registered	11 584,79	48,73	0,42
1	1	the owner	Registered	1 443,23	4,00	0,28
1	1	the owner	Registered	9 798,57	72,88	0,74
1	1	the owner	Registered	16 283,08	329,69	2,02
1	1	the owner	Registered	4 810,10	76,66	1,59
1	1	the owner	Registered	15 467,17	367,11	2,37
1	1	the owner	Registered	15 109,13	242,11	1,60
1	1	the owner	Registered	20 291,04	462,73	2,28
1	1	the owner	Registered	3 758,03	215,57	5,74
1	1	the owner	Registered	5 690,82	6,79	0,12
1	1	the owner	Registered	6 476,10	100,24	1,55
1	1	the owner	Registered	2 244,52	12,72	0,57
1	1	the owner	Registered	8 263,66	162,46	1,97
1	1	the owner	Registered	8 872,08	22,08	0,25
1	1	the owner	Registered	14 592,48	207,75	1,42
1	1	the owner	Registered	5 997,48	58,00	0,97
1	1	the owner	Registered	15 522,47	5,95	0,04
1	1	the owner	Registered	5 901,85	104,53	1,77
1	1	the owner	Registered	10 610,15	128,65	1,21
1	1	the owner	Registered	3 924,59	44,54	1,13
1	1	the owner	Registered	600,22	28,44	4,74
1	1	the owner	Registered	472,27	8,36	1,77
1	1	the owner	Registered	698,12	65,91	9,44
1	1	the owner	Registered	15 684,47	195,25	1,24
1	1	the owner	Registered	8 826,64	201,75	2,29
1	1	the owner	Registered	8 567,06	1,69	0,02
1	1	the owner	Registered	6 019,87	45,81	0,76
1	1	the owner	Needs additional documents	4 630,35	152,07	3,28
1	1	the owner	Registered	5 040,60	44,85	0,89
1	1	the owner	Needs additional documents	5 132,85	154,66	3,01
1	1	the owner	Needs additional documents	18 976,48	84,99	0,45
1	1	the owner	Registered	4 614,37	1,61	0,03
1	1	the owner	Registered	10 359,65	94,60	0,91
1	1	the owner	Registered	8 400,17	48,37	0,58
1	1	the owner	Registered	5 177,16	111,98	2,16
1	1	the owner	Registered	6 149,33	214,74	3,49
1	1	the owner	Registered	10 539,02	9,99	0,09

1	1	the owner	Registered	8 861,25	150,29	1,70
1	1	the owner	Registered	7 997,46	278,32	3,48
1	1	the owner	Registered	12 612,39	1,31	0,01
1	1	the owner	Registered	5 566,27	19,57	0,35
1	1	the owner	Registered	5 028,38	260,80	5,19
1	1	the owner	Registered	2 916,96	14,82	0,51
1	1	the owner	Registered	1 871,22	181,53	9,70
1	1	the owner	Registered	5 028,38	0,94	0,02
1	1	the owner	Registered	3 018,83	205,49	6,81
1	1	the owner	Registered	6 408,56	66,17	1,03
1	1	the owner	Registered	6 406,84	403,53	6,30
1	1	the owner	Registered	8 041,73	94,47	1,17
1	1	the owner	Registered	4 114,04	147,61	3,59
1	1	the owner	Registered	6 583,53	148,13	2,25
1	1	the owner	Registered	10 198,30	313,95	3,08
1	1	the owner	Needs additional documents	6 784,15	314,85	4,64
1	1	the owner	Registered	12 601,30	97,43	0,77
1	1	the owner	Registered	4 999,77	47,38	0,95
1	1	the owner	Registered	6 760,99	13,71	0,20
1	1	the owner	Registered	8 309,60	3,77	0,05
1	1	the owner	Registered	1 594,50	18,17	1,14
1	1	the owner	Registered	7 977,86	278,23	3,49
1	1	the owner	Additional documents needed	1 580,86	108,02	6,83
1	1	the owner	Registered	4 408,54	24,21	0,55
1	1	the owner	Registered	12 449,18	347,34	2,79
1	1	the owner	Registered	4 795,16	53,73	1,12
1	1	the owner	Registered	4 480,02	390,05	8,71
1	1	the owner	Registered	1 400,01	107,96	7,71
1	1	the owner	Registered	2 101,55	27,13	1,29
1	1	the owner	Registered	2 538,34	40,76	1,61
1	1	the owner	Registered	4 799,65	40,11	0,84
1	1	the owner	Registered	9 600,20	372,59	3,88
1	1	the owner	Registered	3 980,48	1,77	0,04
1	1	the owner	Registered	1 385,61	0,49	0,04
1	1	the owner	Registered	3 561,80	11,75	0,33
1	1	the owner	Registered	2 489,79	71,65	2,88
1	1	the owner	Registered	4 413,08	8,45	0,19
1	1	the owner	Registered	2 282,74	86,93	3,81
1	1	the owner	Registered	4 024,51	333,27	8,28
1	1	the owner	Registered	8 989,26	117,63	1,31
1	1	the owner	Registered	7 417,96	12,51	0,17
1	1	the owner	Registered	2 387,99	28,57	1,20
1	1	the owner	Registered	10 199,19	159,23	1,56
1	1	the owner	Registered	4 378,26	30,54	0,70

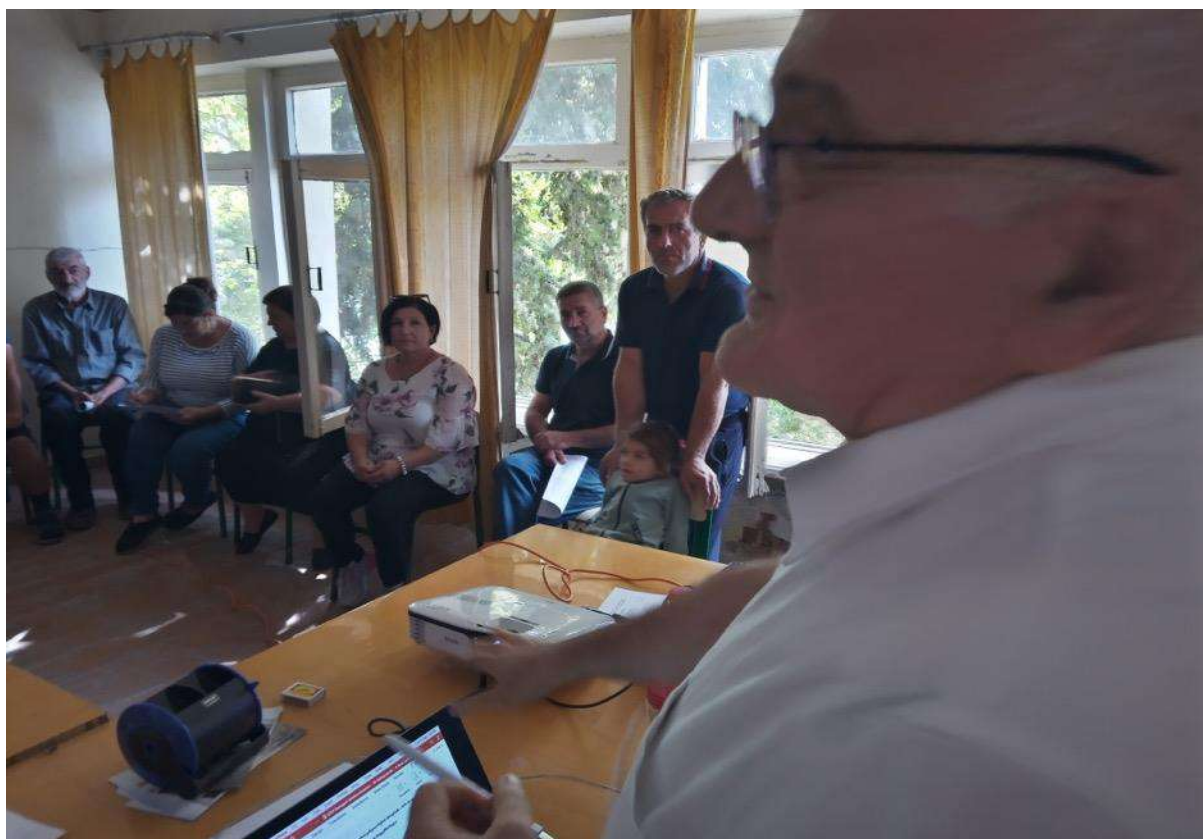
1	1	the owner	Registered	2 996,08	69,49	2,32
1	1	the owner	Registered	2 496,14	3,27	0,13
1	1	the owner	Registered	9 998,06	3,50	0,04
1	1	the owner	Registered	7 456,94	1,50	0,02
1	1	the owner	Registered	6 022,98	40,94	0,68
1	1	the owner	Registered	5 977,74	31,27	0,52
1	1	the owner	Plot to be registered	4 737,00	197,00	4,16
1	1	the owner	Plot to be registered	517,00	47,00	9,09

Table 2. Impact scope for private lands above 10%

Plot quantity	Ownership Status	Ownership status	The purpose of the plot	Total area of the plot sqm	Affected plot sqm	%
1	private	Plot to be registered	Agricultural	1 023,44	109,48	10,70
1	the owner	To be registered	Agricultural	876,92	117,64	13,41
1	the owner	Additional documents needs	Agricultural	3 542,70	509,33	14,38
1	private	Plot to be registered	Agricultural	2 582,04	475,36	18,41
1	Unidentified private	Plot to be registered	Agricultural	413,48	136,72	33,07
1	the owner	Registered	Agricultural	1 734,21	175,40	10,11
1	the owner	Registered	agricultural	1 207,74	134,79	11,16
1	co-owner	Registered	agricultural	930,74	149,53	16,07
1	co-owner	Registered	Agricultural	2 335,53	281,90	12,07
1	co-owner	Registered	agricultural	1 400,78	192,78	13,76
1	co-owner	Registered	Agricultural	1 229,60	238,95	19,43
1	the owner	Registered	agricultural	2 124,55	252,21	11,87
1	the owner	Registered	agricultural	2 404,13	298,03	12,40
1	Private	Registered	Agricultural	147,80	95,36	64,52
1	co-owner	Registered	agricultural	415,16	59,39	14,31
1	the owner	Registered	agricultural	1 000,17	171,92	17,19
1	the owner	Rejection of registration	Agricultural	2 537,84	265,72	10,47
1	co-owner	Registered	Agricultural	5 304,39	535,94	10,10
1	the owner	Registered	Agricultural	2 164,14	254,44	11,76
19				33 375,36	4 454,89	

Annex 4. Photo of structures impact avoided by preliminary design adjustment





List of participants of public consultations, 6-7 September 2022
(English translation follows)

Climate Smart Irrigation Sector Development Program
Public Consultations 07.09.2022 - Village Chailuri

List of attendees

#	სახელი გვარი Name Surname	საკონტაქტო ინფორმაცია Contact Information	ხელმოწერა Signature
1	მუსხიშვილი	555-26-81-08	
2	გვამბაყალი	555-22-47-62	
3	მუსხიშვილი	555-93-16-93	
4	მუსხიშვილი	558-73-66-41	
5	მუსხიშვილი	568-22-02-37	
6	მუსხიშვილი	555-71-19-33	
7	მუსხიშვილი	595-000-141	
8	მუსხიშვილი	599-54-55-78	
9	მუსხიშვილი	593-52-74-60	
10	მუსხიშვილი	599-92-57-93	
11	მუსხიშვილი	599-92-89-64	
12	მუსხიშვილი	596-99-87-87	
13	მუსხიშვილი	595-75-62-37	
14	მუსხიშვილი	557-54-66-78	
15	მუსხიშვილი	558-38-89-78	
16	მუსხიშვილი	594-400-855	

Climate Smart Irrigation Sector Development Program
Public Consultations 07.09.2022 - Village Manavi

List of attendees

#	სახელი გვარი Name Surname	საკონტაქტო ინფორმაცია Contact Information	ხელმოწერა Signature
1	ლევან მარაშვილი	599.18.49.01	
2	ქაჯიძე პეტრე	595.46.08.46	
3	გარბი მარტვილი	568.84.87.32	
4	მალა ვარაძე	18-67-12.598.	
5	გიორგი ცხელიძე	555.52.09.37.	
6	ვინო დავითაშვილი	598.13.68.03	
7	ნიკოლოზ სიმონიძე	599 64 99 67	
8	მარტვილი დიმიტრი	599 42 63 92	
9	მუხომბე მუხომბე	555.26.81.08.	
10	გიორგი მარაშვილი	512-18-12-91	
11			
12	Nargis Kalimova	7467224649	
13	მარტვილი ვინო	999 979749	
14			
15			
16			

Climate Smart Irrigation Sector Development Program
Public Consultations 06.09.2022 - Village Kandaura

List of attendees

#	სახელი გვარი Name Surname	საკონტაქტო ინფორმაცია Contact Information	ხელმოწერა Signature
1	გიორგი ლევანაძე	555.26.81.08	
2	ვახტანგ მანუჩაძე	595 5458 10	
3	მამია აგუაძე	577 60 59 52	
4	როინა აბრამიძე	595.56.23.30	
5	მამია სამუხაძე	599.26.40.19	
6	მინა, ნინო	595.72.21.23	
7	გიორგი აგუაძე	592.22.54.95	
8	გიორგი ნინოშვილი	551.14.51.64	
9	მამია გიორგიშვილი	599.33.18.43	
10	გიორგი ვინოშვილი	599.413.013	
11	საბა ქვიციანიძე	551.80.88.44	
12	გიორგი აბრამიძე	551.82.82.37	
13	ნინო ვინოშვილი	599.68.38.90	
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Climate Smart Irrigation Sector Development Program
Public Consultations 06.09.2022 - Village Kakabeti

List of attendees

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English: List of participants of public consultations, 6-7 September 2022

Climate Smart Irrigation Sector Development Program Public Consultations 07.09.2022-Village Manavi

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Climate Smart Irrigation Sector Development Program Public Consultations 07.09.2022-Village Chailuri

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11	Mary Atabegashvili	595 50 55 43	
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17	Nargiz Nasimov	577 38 27 55	
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Annex 8. LAR information booklets

In Georgian translation was distributed to APs

Land Acquisition and Resettlement Information Booklet



Climate Smart Irrigation Sector Development Project Modernization of the Kvemo Samgori Left Main Canal

Project Proposed for Financing by the Asian Development Bank

Tbilisi 2022

Information is preliminary.

1. Project Description

132. This information booklet is about potential land acquisition and resettlement (LAR) impact and how it will be addressed under the proposed Climate Smart Irrigation Sector Development Program (CSIDSP) in Georgia that is considered for financing by the Asian Development Bank (ADB). The Program will (i) address policy, institutional, governance and management constraints in agriculture and the irrigation subsector (Output 1); (ii) support the modernization of outdated irrigation schemes in Eastern Georgia (Output 2); and (iii) demonstrate innovative agricultural production systems and develop the capacity of farmers and farmers' organizations (Output 3). The Ministry of Environmental Protection and Agriculture (MEPA) and Georgian Amelioration (GA) will be executing and implementing agencies, through a Project Implementing Unit (PIU) under the MEPA. The project will contribute to economic growth and food security and it is in line with the Socio-economic Development Strategy of Georgia (Georgia 2020) which sets a high priority on increasing the potential of the country's agricultural sector, expanding agricultural output, and increasing rural incomes. Agriculture is important in Georgia, however, poor condition of irrigation systems and unreliable irrigation service hamper farmers' productivity, growth in the agriculture sector and rural development. As of 2015, approximately 112,000 hectares (ha) were irrigated in the country, 43,000 ha of which were in eastern Georgia. The government plans to increase irrigation capacity up to 200,000 ha by 2025.

133. Under the Output 2 the project will support the modernization of the dilapidated, under-utilized Kvemo Samgori left canal irrigation scheme in Kakheti region in eastern Georgia. Modernization of the scheme includes repairs to main, secondary and tertiary canals, and on-farm irrigation networks, which is anticipated to have insignificant Land Acquisition and Resettlement impacts. Project preparation and modernization of the irrigation schemes (output 2) is planned in two phases and through design-build contract. Phase 1 includes modernization of irrigation networks in Areas 1 to 4, and Phase 2 includes modernization of irrigation networks in Areas 5 and 6 (Figure 1).

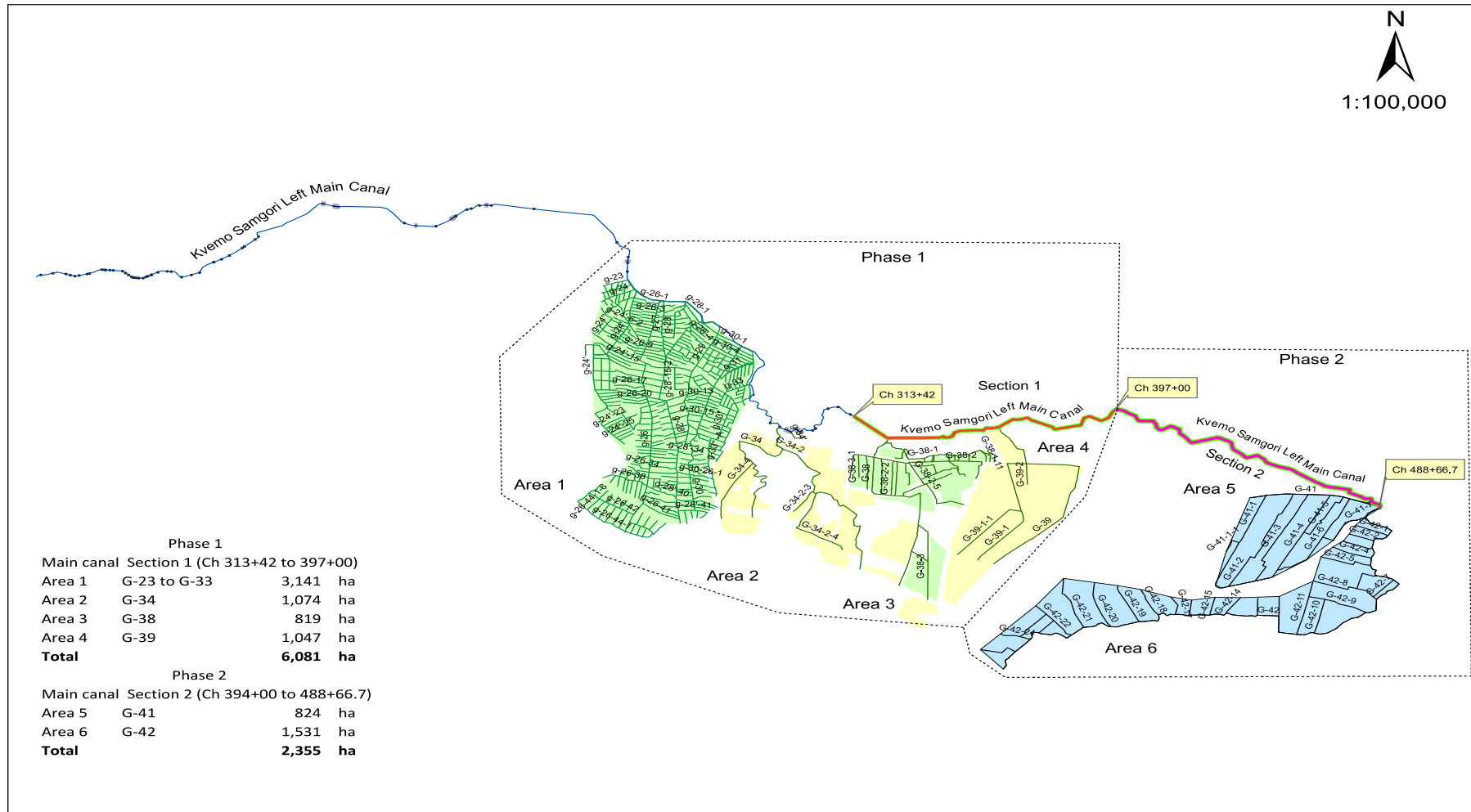
134. A draft LARP is prepared for the planned modernization in distribution network in Area 1 and should be completed after finalizing the detailed design for this area. A LARP has been prepared for modernization works for the main canal associated with the distribution network in Area 1. and will be implemented before commencements of construction works for Areas 5-6. More information about the project can be accessed in ADB at <https://www.adb.org/projects/54014-001/main>

2 Summary of Anticipated Land Acquisition and Resettlement Impact

135. Based on the preliminary assessment, the Kvemo Samgori Left Canal Scheme modernization may cause:

- (i) Temporary LAR impact during modernization works affecting trees and crops within the ROW of 4 meters width corridor in certain sections (to be defined) of the project area as the GA has access road in many of the channels; and
 - (ii) Servitude establishment that may impose land use restrictions (in areas to be defined in LARP) during the systems' operations and maintenance.²⁷ The GA needs to confirm its needs for servitude establishment and areas where the servitude will be required based on detail design and confirmed by GA.
-

Figure 24: Modernization Phases and Areas



2. Resettlement Safeguard Measures and Compensation

136. The policy and legal framework for the LAR process applicable for this Project is based on relevant laws and regulations of Georgia and ADB's Safeguard Policy Statement from 2009 (SPS) on Involuntary Resettlement requirements. The LARP(s) provides principles on LAR process, compensations and rehabilitation entitlements to eligible affected households, to be implemented by MEPA PIU. Measures will be taken to mitigate LAR impact to affected households and pay them replacement cost compensations for their losses based on:

- (i) review of relevant documents on land and property rights,
- (ii) Socio-economic survey and census of affected households,
- (iii) Detailed measurement survey (DMS) of land and other losses,
- (iv) Valuation based on the DMS results, and
- (v) Consultations and meetings with affected households.

Eligibility for Compensation

137. The following affected households are eligible to compensations and assistance:

- (i) persons with formal legal rights to land and/or structures lost entirely or in part;
- (ii) persons who have no formal legal rights to land and/or structures lost wholly or in part but who have claims to such lands that are recognized or recognizable by law;
- (iii) persons who lost the land they occupy in entirety or in part who have neither formal legal rights nor recognized or recognizable claims to such assets. Compensation varies according to the type of displaced persons (see sample entitlement matrix attached).

Cut-off Date for Compensation and Entitlements

138. Compensation and entitlements to affected households (owners, leasers, etc.) will be limited to the established cut-off date (set as the last date of conducted LAR impact assessments and measurements, and census of affected persons). For this project, it is defined as the date of public consultation (7 Sep 2022). People who settle in, build/alter structures in the project area after the cut-off date, will not be compensated for losses due to LAR. affected households who are not identified during the DMS but identified during LARP and/or project implementation, will be eligible for compensation and assistance.

Valuation and Compensation

139. Compensations will be based on valuation results for loss of lands, non-land assets such as buildings and structures, crops, trees permanent loss or temporary interruptions of business and incomes. A sample Entitlement Matrix is in Annex herein.

Land Acquisition and Resettlement Process

140. MEPA PIU shall adhere to the negotiated LAR process with the affected households, through consultations with affected households and disclosure of project and LAR information, consideration of affected households' preference on compensation options, and sign a Land Acquisition Agreement with each affected household. Legalization through state registration of land and property rights are required by law for compensating the assets' losses of legalizable affected households. MEPA PIU shall assist the affected households with legalizable land rights, in state registration and legalization of lands and properties they possess. The LARP shall identify any legalizable affected households and define the process, roles and tasks of MEPA PIU in assisting for free the affected households with legalization

process to become eligible for compensation for loss of lands they possess. The project shall cover the legalization cost to be reserved in the LARP.

141. MEPA PIU ensure disclosure of project and LAR documents, and conducting meaningful consultation with affected households in preparing the LARP and during the LARP and the project implementation. It will be conducted with affected households when LAR impacts are identified based on designs for Kvemo Samgori modernization, following Georgian government guidelines about COVID-19.

Grievance Redress Mechanism

142. MEPA PIU will set up a project-level GRM following the ADB's SPS and laws of Georgia to resolve grievances and issues raised by the project affected households related to the project's resettlement and environmental impacts and consultations and information disclosure. It will be maintained for the duration of the project. The GRM should not impede access to the country's judicial or administrative remedies. The aggrieved persons reserve their rights to appeal to the Court of Georgia at any stage of grievance resolution. The project LARF/LARP shall specify the project GRM and its scope, the GRM tiers, roles and responsibilities of the MEPA PIU, grievance focal person, and contractor, as well as the grievance redress process in details.

143. Also, if not satisfied with the resolution of the issue by project-level GRM, the complaining party can send complaint to ADB's Accountability Mechanism discussed, after making good faith efforts to resolve the grievance by the project-level GRM. Certain complaints will not be eligible, such as:

3. about actions not related to something ADB did or not do in formulating, processing, or implementing an ADB-assisted project;
4. about an ADB-assisted project for which 2 or more years have passed since the loan or grant closing date;
5. about matters those complainants have not made good faith efforts to address with the operations department concerned; and
6. about decisions made by ADB, the borrower or executing agency, or the private sector client on the procurement of goods and services, including consulting services; and allegations of fraud or corruption in ADB-assisted projects (these will be managed by other facilities).

144. The complaint may be submitted by mail, fax, email, or in-person:

Complaint Receiving Officer (CRO), Accountability Mechanism

Asian Development Bank, 6 ADB Avenue, Mandaluyong City 1550, Metro Manila, Philippines. +632 632 4444; +632 636 2086; local 70309; amcro@adb.org

145. Alternatively, complaints may be submitted through ADB office in Tbilisi, which will forward the complaint to the CRO. Contact Information

For any additional information contact the following:

<p>Ministry of Environmental Protection and Agriculture of Georgia Address: Didube Bus Terminal 4 Transport Street, Tbilisi, Georgia, Hot line 1501; Telephone + 995(32) 2 47 01 01+ 995(32) 2 37 80 09 E-mail: info@mepa.gov.ge Contact person: Sophie Berishvili</p>	<p>Georgian Amelioration Address: 0114, Georgia, Tbilisi, G. Gulua street №6: Phone: (+995 32) 2 00 10 00 Email: infor@ag.ge</p>
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Sample Entitlement Matrix

Note: This is a sample. The project specific EM will be developed as part of the project LARP

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
Land			
Agricultural Land: Permanent landloss, accessor damage.	AHHs losing productive land regardless of impact severity	<u>Registered Owner/Legal:</u> Owner with full registration	Cash compensation at full replacement cost based on current market value. If the residual plot becomes unviable for cultivation, the project will acquire it if the owner so desire.
		<u>Legalizable Owner:</u> (APs with title formalization pending and APs who are not registered but legitimately use the land and have residential land or agricultural plots adjacent to the residential land)	The ownership rights of these APs will be recognized, the land registered in NAPR and the APs provided with cash compensation at full replacement cost. Registration costs will be paid by the Project.
		<u>Non-legal/Informal Settler:</u> APs that are not legitimate land users or squatters	Non-legalizable APs losing agricultural land plot, which is the only land plot owned by AH and provides main source of income for AH, will be compensated with one-time allowances in cash equal to 6 months of subsistence wage for an average consumer ²⁸
		Agricultural Tenant	Full Compensation of income of lost crops x the remaining years (up to 4 years) of lease. In case of tenancy no crop compensation will be given to the land owner.
Non-Agricultural Land	AHHs losing their commercial/ residential land	<u>Registered Owner/Legal:</u> (Owner with full registration)	Cash compensation at full replacement cost.
		<u>Legalizable Owner:</u> (The owners legalizable according to active legislation)	The ownership rights of these APs will be recognized, the land registered in NAPR and the APs provided with cash compensation at full replacement cost. Registration costs will be paid by the Project.
		<u>Non-legal/Informal Settler</u> (Without registration/valid documents using land permanently.)	Non-legalizable APs losing land plot, which is the only land plot used for residence or providing main source of income for AH, will be compensated with one-time self-relocation allowances in cash equal to 1 year of subsistence wage for an average consumer.
Temporary Impact on land plot		During construction works	Temporary land impacts will be compensated based on the productive value of the plot during the period of impact until their use will be re-established at the pre- impact productive conditions.
Permanent servitude for irrigation systems operation and maintenance, causing land use	Land under servitude will not be acquired by the project and can be used by the AHHs, with certain	<u>Legal and Legalizable land owners</u>	One-time cash compensation to offset the decreased value of the all types of affected land plots due to land use restrictions imposed by servitude establishment. The cash compensation for land affected by servitude shall be based on difference of the market value of the land at present (before the project) and after the project impact (land use restrictions imposed by

²⁸ Six-month subsistence wage for an average consumer: the amount will be checked and updated, if required, at the time of compensation, to reflect current rate.

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
restrictions	land use restrictions described in LAR impact section of this LARP. This will diminish the value of lands and shall be compensated.		servitude), based on valuation of the independent certified valuation specialist for the affected land value. For lands that will be under the servitude, the PIU shall negotiate and sign servitude agreements with the respective landowners according to the Civil Code (envisages covering the costs of land owners if their land/crops and properties will be damaged due to any works for systems operations and maintenance in future). Restore lands to the previous condition at least with the saved top soil;
Permanent servitude	Servitude for schemes operation and maintenance	AHs- legal and legalizable land owners	One-time cash compensation to offset the decreased value of the all types of affected land plots due to land use restrictions imposed by servitude establishment. <ul style="list-style-type: none"> Cash compensation for land affected by servitude shall be based on difference of the market value of the land at present (before the project) and after the project impact (land use restrictions imposed by servitude), based on valuation of the independent certified valuation specialist for the affected land value. AHs landowners) whose land plots will be encumbered with 10% or over servitude impact, will be entitled for additional one-time cash assistance allowance for severely AHs; PIU shall negotiate and sign servitude agreement with the land owners following the legislation, in particular the Civil Code (26 June 1997, as amended in 2022) that envisages covering the costs of land owners if their land/crops and properties will be damaged due to any works for systems operations and maintenance in future. Only if efforts to negotiate the mutually acceptable.
Buildings and Structures			
Residential and non-residential structures/assets		All AHs regardless of their legal ownership/ registration status(including legalizable and Informal Settlers)	Cash compensation for building/structures losses at full replacement costs free of depreciation and transaction costs.
Loss Of Community Infrastructure/Common Property Resources			
Loss of common property resources	Community/Public Assets	Community/Government	Reconstruction of the lost resource/asset in consultation with community and restoration of their functions
Loss of Income and Livelihood			
Crops	Affected standing or agricultural land used for crops	All APs regardless of legal status (including legalizable and InformalSettlers)	Crop compensation in cash at market rate by default at gross crop value of expected harvest.
Trees	Trees affected	All APs regardless of legal status (including legalizable and Informal Settlers)	Cash compensation at market rate on the basis of type, age and productive value of the trees (expected yield of the tree, multiplied by the number of years required to grow a tree of equivalent productivity).

Type of Loss	Application	Definition of AH/APs	Compensation Entitlements
Business/ Employment	Business/ employment loss	All APs regardless of legal status (including legalizable and InformalSettlers)	<u>Owner:</u> (iv) Permanent impact: cash indemnity of 1-year net income or in the absence of income proof, ne time an average consumer subsistence allowance in cash up to 12 months; (v) Temporary impact: cash indemnity of net income for months of business stoppage. Assessment to be based on tax declaration or, in its absence, an average consumer subsistence allowance for months of business stoppage; (vi) Permanent worker/employee: indemnity for lost wages equal to one-time six-month subsistence wage for an average consumer. Business income shall also cover all individual value- added activities beyond direct consumption/sale of agricultural produce (i.e. informal business activities at household level which are currently unaccounted for due to the lack of economic activity data for the affected populations). There will be a verification process during the LARP implementation to fully account for such activities.
Allowances			
Severe Impacts	>10% income loss	All severely affected AHs including informal settlers	Agricultural income: 1 additional crop compensation for 1 year's yield of affected land and/or, for other incomes: an allowance covering six-month subsistence wage for an average consumer .
Relocation/ Shifting	Transport/ transition costs	All AHs to be relocated	An allowance covering transport and livelihood expenses for the transitional period (200 GEL as vehicle hire charge + six-month subsistence wage for an average consumer).
Vulnerable People Allowances		Households who might disproportionately suffer or face the risk of being marginalized from LAR impacts, such as (i) female-headedhouseholds with and/or without dependents; (ii) disabled household heads; (iii) poor households as defined by the official poverty line; (iv) elderlyhouseholds with no means of support; (v) households without security of tenure; (vi) cultural or ethnic minorities; and (vii) refugees or internally displaced people.	Six-month subsistence wage for an average consumer and employment priority in project- related jobs where feasible. Additional assistance in kind will be provided to facilitate relocation or transition – this may include (logistics, relocation planning, assistance with replacement housing search, as appropriate).
Any unanticipated impact in project implementation	Includes any temporary/ permanent income	All APs	Compensation to be assessed and paid for identified impacts based on the above provisions and the requirements of SPS 2009.

Key Steps of the Resettlement Process

Under the Climate Smart Irrigation Sector Development Project (RRP GEO 54014) proposed for funding by ADB

The steps below can be carried out in parallel

Preliminary Design works Kverno Samgori irrigation schemes modernization:

Measurement of Affected Assets (lands, trees, structures, crops)

- Affected lands, trees, structures, crops (permanent and/or temporary impacted) are measured.
- Presence during the measurement is mandatory. The survey team will inform APs about the schedule of measurements in your land.
- The affected assets are described and recorded for compensation.
- The last day of measurement of affected assets will be **cut-off date** for compensation and entitlements eligibility for affected persons and assets.

Census of Affected Households (land owners, users, etc.)

- All affected households (AHs) and family members will be recorded.

Socio-Economic Surveys (SES)

- SES to be conducted by interviewing 25% of all AHs (to assess the socio-economic condition of AHs at the project baseline and does not affect compensation package). The survey is anonymous.

Conducting Public Consultations in community

- PIU and the project preparation team will conduct public consultations
- **Cut-off date** for compensation/entitlements (for eligibility AHs) will be announced (e.g., as the last day of Measurement of Affected Assets (stage above)).

Preparation and Signing of Protocol for Affected Assets

- Based on land and resettlement impact measurement survey, the affected assets description protocol is prepared.

Valuation and Compensation of Affected Assets

- Based on the property description protocol signed by owner, affected assets will be valued for compensation.
- Everyone can ask questions about the valuation and compensation process during the public consultations.

Preparation of Land Acquisition and Resettlement Plan

- PIU prepare, framework for resettlement policy and process, the LARP which includes summary of the project compensations and entitlement matrix (EM) based on national laws and ADB's SPS 2009, resettlement impacts scope, number of AHs and affected persons, social-economic conditions of AHs' at the project baseline, grievance redress mechanism (GRM), resettlement safeguards monitoring and reporting requirements, institutional responsibility, resettlement/compensation budget.
- Compensation for affected assets and any assistance allowances to eligible AHs will be envisaged in the LARP for each AHs (land users/owner).
- Summary of draft LARP will be presented during the public consultation including the EM, GRM, and cut-off date, with information brochures.
- LARP will be approved by MEPA and ADB for disclosure and implementation.

Payment of compensation and entitlements (LARP Implementation)

- PIU will pay compensations and entitlements as per the approved LARP (LARP implementation)

Preparation and Signing of Compensation Agreements

- PIU prepares and presents the draft agreement for compensation of affected assets and any assistance allowances as envisaged in the project Land Acquisition and Resettlement Plan (LARP).
- PAPs familiarise themselves with the agreement and submit their objections, if any, within the period provided by law
- After agreement is reached and signed the money will be transferred to the bank account.

Monitoring and Reporting

- PIU will submit internal monitoring report on LARP Compliance Implementation, for review and approval of ADB.

Start of Civil Works

- Civil works can be started in resettlement affected areas only upon full compensation and entitlements of AHs as envisaged in the LARP:

Annex 9. Process of registration/legalization of unregistered/legalizable lands

B. Introduction

Correct initial registration of ownership rights is the required for undertaking voluntary acquisition or mandatory expropriation of real property. Pursuant to article 312 of the Civil Code of Georgia the records at the Public Registry are considered accurate until their inaccuracy is not proved. Therefore, throughout the presumption of the article 312 of the Civil Code of Georgia (26 June 1997, as amended in 2022) the inaccurate data available at the Public Registry shall be corrected with precise data. Landowners shall carry out precise demarcation and legalization of his/her land parcel(s) through proper procedure. The land owners have to apply to the National Agency for Public Registry (NAPR) of the Ministry of Justice with required documents as proof of ownership and description of land, Cadastral Map with precise survey data and documents verifying ownership right (Receive-Delivery Act, or Registration Certificate, or the extract from the land distribution list issued by the local self- government body, or the statement on the landowner's registration as a tax payer in 1992-2001).

C. Status on registration of lands

The registration land parcel without structure has not been -stopped. However, in practice, most of the owners are not initiating any new land registration for the pure land because; (i) there is no requirement for them for new registration as buying and selling of pure land is not so prevalent in present situation (ii) these owners are using their respective plots based on the mutual understanding among the neighbors.

In reality, some of these land parcels and owners can still be converted into legal owners provided the initiation for land registration for pure land is taken by the owners. These cases under the current situation are considered as Legalizable Owners. Currently, there is no problem associated with urban and residential plots. Also, there is some cases pending in the court related to land registration, which needs to be addressed. The current ownership of land can be broadly categorized as follows:

Legal Owner/ Title Holder: Owners and users of land having their title registered in NAPR.

Legalizable Owner:

Rightful Owners — the owners with old document proof although not having registration in the Public Registry under the Laws of Georgia on Privatization of State-owned Agricultural Land, (July 8, 2005) and The Law of Georgia on Public Register (No820 –lis; December 19 of 2008); (the current legislation).

Non-rightful owners - unauthorized land users having right to legalize landownership rights provided by the current legislation. The legalization of landownership rights, under the current legislation is allowed for following cases:

The state owned agricultural or non-agricultural land plot with residential house or supporting structures on it - occupied by the physical or legal person without permission before the current law came in force in 2007.

Land plot occupied by person without permission is adjacent to the land parcel rightfully owned or used by this person, taking into account that the illegally occupied land parcel should be of less area than the legally owned adjacent land parcel.

However, there are certain restrictions on privatization of land⁶ (attachment-2).

Non-Legalizable Landowners: Illegal/Squatters having no right to legalize landownership rights under the current legislation. Persons having no document of possessing the land in concern before the enactment of the current law in 2007 are not legalizable.

Legalization of Rightful Landownership rights is executed directly by Municipal Registration Offices of NAPR. The applicants should submit old documents proofing the ownership rights and precise cadastral maps of the land plot and structures on it.

Legalization of Non-rightful Landownership rights is authorized by Property Recognition Commission (in each Municipal) through reviewing the application documents, evaluating eligibility against the restriction lists given in the law and local land use development plans. In case of positive decision and upon payment by the applicant of relevant amount of money to a special account, if applicable, the Commission issues certificate on ownership right. Based on that certificate the Municipal Registration Office of NAPR will register the ownership rights on land plot and structures.

According to the Law of Georgia On Privatization of Agricultural Land Existing in State Ownership (Article 2, Clause 3), the following categories of State-owned lands are not subject to privatization: (a) Pasturelands other than those leased out before the enactment of this law which under the act issued by the competent state or local government (self-government authority) are duly allotted to the buildings and premises located thereon which are the private property of individuals or legal entities or the property of the state; (b) Cattle transfer routes; (c) The first zone (zone of strict regime) in sanitary protection area around water supply units; (d) Lands of forest funds, which are used for agricultural purposes; (e) Recreational lands; (f) Lands occupied with historical, cultural, natural and cult- religious monuments; (g) Lands of protected territories; (h) Agricultural lands that are used by the Budget-funded institutions and legal persons of public law in form of usufruct. The lands indicated in b, c, d and e may be privatized only if significant projects are implemented, on which government of Georgia, based on the suggestion of the Ministry of Economic Development of Georgia, shall take special decision. At the same time the land indicated in c may be privatized if the conditions of sanitary protection are met. (26.10.2007). Municipal Map/Archives: issues related to the exact ownership, boundary of each plot and its due recognition.

D. Land acquisition and resettlement surveys and documentation for the project

As the land acquisition and resettlement (LAR) activities at the feasibility study (FS) level were based on tentative alignments and existing imprecise cadastral maps, and since there was no detail estimate of losses and ownership at FS, fresh land acquisition and resettlement surveys have been being carried out through detail measurement survey, valuation survey, census survey and socioeconomic survey. The project alignment as per final engineering design is being superimposed on the updated cadastral map of Registered land plots obtained from Municipal NAPR and aerial photo (ortho-photo) of concerned area. Each of the affected Registered land plots in the project right of way are being identified along with its dimensions on the ortho- photo. The affected plots are being listed up and cadastral details collected from Municipal NAPR, and local government offices as applicable.

Based on this, the survey team proceeded to the sites for field survey which included identification of each plot and verification of the details shown in the National Survey Map (National Cadaster Map) and the reality on the ground. The verification survey process includes title searching through review of available documents and discussions with the owners about land parcel boundary and further discussion with the local government, the representative of the NAPR (local archives are currently transferred to NAPR municipal offices) for its cross verification. Based on these methods final details of each parcel and ownership will be confirmed. This will help to identify the legal owners, the legalizable owners (rightful and

non-rightful) and the illegal occupants of state owned land. The list of various categories of ownership will be recorded with the help of local government.

The FS noted that some of the owners of affected land parcels have the land documents (old documents) as proof of ownership obtained during the post-soviet period. These land owners did not register their land parcels in the municipal level registration office as it was not mandatory for them. As general estimation registered land owners in Georgia constitute 10-15% of all the legalizable land owners/users.

1. Registration Of Rightful Owners

Recognition of ownership rights in relation with the rightfully owned/used land plot is executed through registration of ownership right directly in the Public Registry. For that purpose, the applicant has to submit:

- Documents confirming rightful ownership of the land plot (annex 3).
- Precise cadastral maps of the land plot.
- Document confirming payment of the fee for the property recognition (51 Gel).
- Identification documents of the applicant.

The procedure for registration of Rightful Owners needs complete the steps as follows:

Step 1 Preparation of fresh and precise cadastral map by the owners through private agencies. The map will include all the dimensions of plots and geometrical details. The cost of preparation of map ranges from 0.06 GEL to 0.10 GEL per sqm of land to be recognized. The duration for preparation of map will be approximately a week time. However, within the project frame, the consultant will prepare precise cadastral maps for the affected land plots and these maps along with required land descriptions will be given to the legalizable and other land owners free of charge.

Step 2 In case the owner does not have available ownership proving documentation (annex-3) or in case there is any doubt regarding the plot, the owner has to apply to the local community level self-government (Sakrebulo and Gamgeoba) and local Rayoon NAPR Office (where Archives are kept) for the proof and cross verification of the land details.

Step 3 After the verification from NAPR municipal Office, the owners will take the endorsement from the community municipal office (Gamgeoba).

Step 4 Following the authorization from Gamgebeli the owners will approach to the Municipal level Registration Office of the NAPR. The owners will provide all the above proof to the registration office. The registration office will verify the completeness of all required application documents. The owners have to submit both the soft copy and hard copy of the plot maps along with its coordinates for record in the Public Registry office. The registration process will take 4 working days in normal situation and the property recognition fee will be 51 GEL per registration. In case of urgency, the owners have to pay 150 GEL to get the registration done in one working day and 200 GEL, if the registration needs to be done immediately. However, the registration office for affected legalizable owners will not charge the urgency cost and will be able to complete each case in maximum 6 days. After the finalization of registration, the Public Registry office will compile the land records and will update the cadastral details. The updated details will be sent to the central Public Registry for centralized record.

In case, there remains further dispute related to ownership, the case may be referred to the court. The project authority may estimate the price of that particular land and may deposit the amount in the State Budget allocated for the Project. The payment to the real owner will be executed from the State Budget according to the court decision upon confirmation PIU. The case will be resolved in the Municipal Court.

2. Registration Of Non-Rightful Owners

For recognition of the ownership rights on non-rightfully owned land plot the owner/user should submit to Property Recognition Commission application letter through the Office of Sakrebulo with the following supplementary documentation:

- (i) Document confirming the fact of non-rightful ownership/use of the land plot (see annex 3) or attestation of witness (neighbors etc.).
- (ii) Precise cadastral maps of the land plot
- (iii) Information needed for determination of the fee for property recognition
- (iv) Copies of the identification documents of the applicant

The process and procedure for registration of Non-Rightful Owners needs the following steps:

Step 1: Preparation of precise cadastral map by the owners through private agencies. The map will include all the dimensions of plots and geometrical details. The cost of preparation of map ranges from 0.06 GEL to 0.10 GEL per sqm of land to be recognized. The duration for preparation of map will be about a week time. However, within the project frame, the consultant will prepare precise cadastral maps for the affected land plots and these maps along with required land descriptions will be given to the legalizable and other land owners free of charge.

Step 2 : The map and its details will be authorized and the land usage pattern will be verified by the neighbors. The community local administration (Gamgeoba) may also certify the authorization.

Step 3 Following the authorization from the neighbors, the same has to be notarized. Cost of notarian confirmation of neighbors witness will be 15 GEL for each case.

Step 4 The land owner/user will approach to the Property Recognition Commission through Office of Sakrebulo with a package of documents confirming eligibility for legalization of the land plot according to the current legislation. This includes ownership documents (see annex-3) related to the adjacent land plots owned by the applicant rightfully.

Step 5 In case if, the owner does not have available documentation proving ownership rights on the adjacent land plot or in case there is any doubt regarding the plot, the owner will apply to the local NAPR Archives for the proof and cross verification of the land details.

Step 6 After the verification, the Office of Sakrebulo will endorse the application and authorize the case for recognition.

Step 7 Following the authorization from Sakrebulo, the owners will approach to the Property Recognition Commission. The owners will provide all the above proof to the Commission. The Commission will verify the documents, make physical verification and organize an open disclosure meeting on site with prior notice to the concerned community peoples. If the documents are clear and the land is free from any dispute from anybody, then the Commission will notify the applicant to deposit payment for the land (if applicable). After payment, or if the payment is not applicable, the commission will issue certificate on ownership right to the owners.

Step 8 Based on the above steps, the owners will go to the Public Registry at their respective municipal for registration. The owners have to submit both the soft copy and hard copy of the plot maps along with its coordinates. The registration process will take 4 working days in normal situation and the property recognition fee will be 51 GEL per registration. In case of urgency, the owners have to pay 150 GEL to get the registration done in one working day and 200 GEL, if the registration needs to be done immediately. However, the registration office for affected legalizable owners will not charge the urgency cost and will be able to complete each case in maximum 6 days. After the finalization of registration, the Public Registry office will compile the land records and will update the cadastral details. The updated details will be sent to the central NAPR for centralized record.

In case of dispute related to ownership; the case may be referred to the court. The project authority may estimate the price of that particular land and may deposit the amount in the State

Budget allocated for the Project. The payment to the real owner will be executed from the State Budget according to the court decision upon confirmation of PIU.

E. Responsibility on LARP implementation

There one unregistered land and owner has been identified during LARP assessment in LARP preparation. Upon project and LARP approval by ADB approval, PIU will ensure and the PIC's Safeguard Specialist will collaborate with the concerned land owner, registration and local government offices, survey and audit agency to verify the ownership/registration status of the subject land and owner, as per final engineering design of the project, and facilitate the completion of registration of the one identified unregistered land plot affected by the project.

There one unregistered land and owner has been identified through extensive title search, who shall be provided with the detailed cadastral maps and case-specific instructions on further steps for legalization.

The registration will be completed for the legalizable owners during the implementation of LARP and prior to the disbursement of compensation. The registration cost will be reimbursed from the Project during LARP implementation. The affected legalizable owners have to initiate the land registration at their own cost in the beginning with such assurance from the PIU.

Annex 10 . State lands

Plot quantity	Name of Owner/Owner	Ownership status	The purpose of the plot	Total area of the plot sqm	Affected plot sqm	%
1	State Electric System of Georgia LLC	Registered	agricultural	22,54	1	4,32
1	Georgian Railways Ltd	Registered	agricultural	5 894,05	22	0,37
1	Ltd. 'Georgian railway'	Registered	agricultural	9 798,57	72,88	0,74
1	Ltd. 'Georgian railway'	Registered	agricultural	2 613,33	8,65	0,33
1	Ltd. 'Georgian railway'	Registered	agricultural	328,36	1,75	0,53
1	Ltd. 'Georgian railway'	Registered	agricultural	22 896,59	109,11	0,48
1	Georgian Railways Ltd	Registered	agricultural	29 701,97	12	0,04
1	Georgian Railways Ltd	Registered	agricultural	22 896,59	1	-
1	Georgian Railways Ltd	Registered	agricultural	399,71	-	-
1	Georgian Railways Ltd	Registered	agricultural	9 798,57	5	0,05
1	State Electric System of Georgia LLC	Registered	agricultural	20,25	3	13,53
11				104371	235	

Annex 11. Compensations for land servitude in private farmers lands

Plot quantity	Ownership status	The purpose of the plot	Total area of the plot sqm	Affected plot sqm	%	1 sqm. Land plot value (GEL)	30% of land value (1 sqm) for servitude impact	Compensation amount for cut land (GEL)
1	Registered	agricultural	4 759,35	14,35	0,30	4,30	1,29	18,51
1	Registered	agricultural	3 601,14	0,09	0,00	4,30	1,29	0,11
1	Registered	agricultural	2 566,31	0,31	0,01	4,30	1,29	0,40
1	Registered	agricultural	1 304,36	116,70	8,95	4,30	1,29	150,54
1	Registered	agricultural	4 476,46	2,77	0,06	4,30	1,29	3,57
1	Registered	agricultural	1 917,18	0,94	0,05	4,30	1,29	1,22
1	Registered	agricultural	2 643,37	5,33	0,20	4,30	1,29	6,88
1	Registered	agricultural	4 242,63	22,95	0,54	4,30	1,29	29,61
1	Registered	agricultural	2 469,69	3,17	0,13	4,30	1,29	4,09
1	Registered	agricultural	2 060,45	0,07	0,00	4,30	1,29	0,09
1	Registered	agricultural	3 800,11	1,35	0,04	4,30	1,29	1,74
1	Registered	agricultural	5 649,53	7,34	0,13	4,30	1,29	9,47
1	Registered	agricultural	1 978,54	1,96	0,10	4,30	1,29	2,52
1	Registered	agricultural	3 597,62	10,95	0,30	4,30	1,29	14,12
1	Registered	Agricultural	2 000,21	154,71	7,73	4,30	1,29	199,57
1	Registered	agricultural	5 285,05	4,09	0,08	4,30	1,29	5,28
1	Registered	agricultural	2 830,27	7,18	0,25	4,30	1,29	9,26
1	Registered	Agricultural	2 919,43	10,36	0,35	4,30	1,29	13,36
1	Registered	agricultural	3 347,27	5,06	0,15	4,30	1,29	6,53
1	Registered	agricultural	6 970,52	401,42	5,76	4,30	1,29	517,83
1	Registered	Agricultural	3 823,46	0,42	0,01	4,30	1,29	0,54
1	Registered	agricultural	4 445,00	0,19	0,00	4,30	1,29	0,25
1	Registered	agricultural	2 461,78	1,05	0,04	4,30	1,29	1,35
1	Registered	agricultural	1 754,71	59,51	3,39	4,30	1,29	76,77
1	Registered	agricultural	3 810,88	107,53	2,82	4,30	1,29	138,72
1	Registered	Agricultural	3 179,02	52,00	1,64	4,30	1,29	67,08
1	Registered	Agricultural	4 554,85	20,93	0,46	4,30	1,29	27,00
1	Registered	Agricultural	1 742,01	0,10	0,01	4,30	1,29	0,12
1	Registered	agricultural	2 999,99	8,48	0,28	4,30	1,29	10,94
1	Registered	agricultural	4 731,98	143,70	3,04	4,30	1,29	185,37
1	Registered	agricultural	4 242,63	16,99	0,40	4,30	1,29	21,92
1	Registered	agricultural	4 900,27	43,97	0,90	4,30	1,29	56,72
1	Registered	Agricultural	4 528,55	2,04	0,05	4,30	1,29	2,63
1	Registered	agricultural	2 700,43	1,72	0,06	4,30	1,29	2,22
1	Registered	agricultural	2 897,25	10,46	0,36	4,30	1,29	13,49
1	Registered	agricultural	2 764,35	23,69	0,86	4,30	1,29	30,56
1	Registered	Agricultural	4 352,72	93,06	2,14	4,30	1,29	120,05
1	Registered	Agricultural	7 499,00	7,43	0,10	4,30	1,29	9,58
1	Registered	Agricultural	4 511,86	1,85	0,04	4,30	1,29	2,39

1	Registered	Agricultural	3 780,34	155,36	4,11	4,30	1,29	200,42
1	Registered	Agricultural	4 303,58	159,94	3,72	4,30	1,29	206,32
1	Registered	Agricultural	6 014,55	147,69	2,46	4,30	1,29	190,52
1	Registered	Agricultural	10 833,57	30,99	0,29	4,30	1,29	39,98
1	Registered	Agricultural	1 197,69	2,59	0,22	4,30	1,29	3,34
1	Registered	Agricultural	6 396,51	7,49	0,12	4,30	1,29	9,67
1	Registered	agricultural	8 336,84	13,19	0,16	4,30	1,29	17,01
1	Registered	Agricultural	5 243,13	0,90	0,02	4,30	1,29	1,16
1	Registered	Agricultural	9 620,16	0,05	0,00	4,30	1,29	0,07
1	Registered	Agricultural	3 952,73	37,73	0,95	4,30	1,29	48,68
1	Registered	Agricultural	12 571,39	87,56	0,70	4,30	1,29	112,95
1	Registered	Agricultural	4 513,53	27,67	0,61	4,30	1,29	35,70
1	Registered	agricultural	4 065,12	33,58	0,83	4,30	1,29	43,31
1	Registered	Agricultural	1 533,33	24,53	1,60	4,30	1,29	31,64
1	Registered	Agricultural	4 299,69	44,11	1,03	4,30	1,29	56,90
1	Registered	Agricultural	7 499,00	1,37	0,02	4,30	1,29	1,76
1	Registered	Agricultural	4 010,80	88,00	2,19	4,30	1,29	113,52
1	Registered	Agricultural	2 351,00	7,29	0,31	4,30	1,29	9,41
1	Registered	Agricultural	4 589,07	4,47	0,10	4,30	1,29	5,76
1	Registered	Agricultural	6 355,75	408,69	6,43	4,30	1,29	527,21
1	Registered	agricultural	5 403,78	35,71	0,66	4,30	1,29	46,07
1	Registered	agricultural	11 897,02	39,19	0,33	4,30	1,29	50,56
1	Registered	agricultural	6 493,23	3,48	0,05	4,30	1,29	4,49
1	Registered	Agricultural	42 232,01	1,81	0,00	4,30	1,29	2,34
1	Registered	Agricultural	1 899,74	8,24	0,43	4,30	1,29	10,63
1	Registered	Agricultural	5 394,41	0,09	0,00	4,30	1,29	0,12
1	Registered	Agricultural	2 469,57	1,91	0,08	4,30	1,29	2,47
1	Registered	Agricultural	5 760,92	0,05	0,00	4,30	1,29	0,06
1	Registered	agricultural	2 849,87	28,86	1,01	4,30	1,29	37,23
1	Registered	Agricultural	8 252,59	95,86	1,16	4,30	1,29	123,66
1	Registered	Agricultural	9 941,78	205,27	2,06	4,30	1,29	264,80
1	Registered	Agricultural	6 109,61	61,97	1,01	4,30	1,29	79,94
1	Registered	Agricultural	10 086,90	25,60	0,25	4,30	1,29	33,02
1	Registered	Agricultural	8 439,73	15,57	0,18	4,30	1,29	20,08
1	Registered	agricultural	7 264,06	76,04	1,05	4,30	1,29	98,09
1	Registered	Agricultural	3 960,05	363,24	9,17	4,30	1,29	468,58
1	Registered	Agricultural	6 304,37	100,99	1,60	4,30	1,29	130,28
1	Registered	Agricultural	8 096,57	138,97	1,72	4,30	1,29	179,27
1	Registered	Agricultural	9 586,55	106,01	1,11	4,30	1,29	136,75
1	Registered	non-agricultural	3 730,88	58,58	1,57	4,30	1,29	75,56
1	Registered	non-agricultural	4 089,01	33,12	0,81	4,30	1,29	42,73
1	Registered	Agricultural	13 765,54	368,19	2,67	4,30	1,29	474,97
1	Registered	Agricultural	11 764,53	123,13	1,05	4,30	1,29	158,84
1	Registered	agricultural	8 574,56	0,03	0,00	4,30	1,29	0,04

1	Registered	agricultural	9 481,70	102,95	1,09	4,30	1,29	132,81
1	Registered	agricultural	25 880,03	497,30	1,92	4,30	1,29	641,52
1	Registered	Agricultural	21 089,99	0,08	0,00	4,30	1,29	0,11
1	Registered	Agricultural	8 505,95	23,11	0,27	4,30	1,29	29,81
1	Registered	Agricultural	8 469,68	265,52	3,13	4,30	1,29	342,52
1	Registered	Agricultural	9 701,55	18,33	0,19	4,30	1,29	23,65
1	Registered	agricultural	9 472,94	133,24	1,41	4,30	1,29	171,89
1	Registered	Agricultural	21 312,65	3,03	0,01	4,30	1,29	3,91
1	Registered	Agricultural	5 676,55	4,48	0,08	4,30	1,29	5,78
1	Registered	Agricultural	12 011,75	0,04	0,00	4,30	1,29	0,05
1	Registered	agricultural	5 871,00	14,10	0,24	4,30	1,29	18,19
1	Registered	agricultural	4 054,75	24,06	0,59	4,30	1,29	31,03
1	Registered	agricultural	21 034,85	69,90	0,33	4,30	1,29	90,18
1	Registered	agricultural	1 374,76	0,09	0,01	4,30	1,29	0,12
1	Registered	Agricultural	5 497,23	77,77	1,41	4,30	1,29	100,33
1	Registered	agricultural	5 819,17	78,11	1,34	4,30	1,29	100,76
1	Registered	agricultural	3 999,61	36,53	0,91	4,30	1,29	47,13
1	Registered	Agricultural	7 247,19	98,85	1,36	4,30	1,29	127,51
1	Registered	Agricultural	2 071,65	14,81	0,71	4,30	1,29	19,10
1	Registered	Agricultural	5 000,17	54,03	1,08	4,30	1,29	69,70
1	Registered	Agricultural	5 470,07	122,39	2,24	4,30	1,29	157,89
1	Registered	agricultural	38 499,00	448,15	1,16	4,30	1,29	578,12
1	Registered	Agricultural	7 884,36	75,43	0,96	4,30	1,29	97,31
1	Registered	Agricultural	87 499,26	1 497,91	1,71	4,30	1,29	1 932,31
1	Registered	agricultural	4 255,38	28,36	0,67	4,30	1,29	36,58
1	Registered	agricultural	6 137,63	0,14	0,00	4,30	1,29	0,18
1	Registered	agricultural	70 000,22	729,42	1,04	4,30	1,29	940,96
1	Registered	agricultural	5 555,01	32,20	0,58	4,30	1,29	41,54
1	Registered	agricultural	4 852,27	63,21	1,30	4,30	1,29	81,54
1	Registered	agricultural	4 200,33	0,55	0,01	4,30	1,29	0,70
1	Registered	agricultural	7 645,47	1,57	0,02	4,30	1,29	2,02
1	Registered	Agricultural	15 097,29	109,80	0,73	4,30	1,29	141,64
1	Registered	agricultural	5 881,69	77,72	1,32	4,30	1,29	100,26
1	Registered	agricultural	4 850,24	45,40	0,94	4,30	1,29	58,56
1	Registered	agricultural	2 177,69	10,16	0,47	4,30	1,29	13,10
1	Registered	agricultural	8 796,36	0,04	0,00	4,30	1,29	0,05
1	Registered	Agricultural	9 789,47	2,61	0,03	4,30	1,29	3,37
1	Registered	Agricultural	10 236,70	11,01	0,11	4,30	1,29	14,21
1	Registered	Agricultural	3 204,88	18,57	0,58	4,30	1,29	23,96
1	Registered	agricultural	5 116,82	52,79	1,03	4,30	1,29	68,10
1	Registered	agricultural	3 780,34	48,13	1,27	4,30	1,29	62,08
1	Registered	Agricultural	87 499,93	642,50	0,73	4,30	1,29	828,82
1	Registered	Agricultural	30 007,38	7,69	0,03	4,30	1,29	9,92
1	Registered	Agricultural	20 004,13	422,99	2,11	4,30	1,29	545,66
1	Registered	Agricultural	2 841,77	17,94	0,63	4,30	1,29	23,14

1	Registered	Agricultural	13 326,93	533,48	4,00	4,30	1,29	688,19
1	Registered	Agricultural	8 327,76	155,66	1,87	4,30	1,29	200,81
1	Registered	agricultural	3 014,11	27,04	0,90	4,30	1,29	34,88
1	Registered	Agricultural	70 000,06	1 024,17	1,46	4,30	1,29	1 321,18
1	Registered	Agricultural	49 860,00	533,02	1,07	4,30	1,29	687,60
1	Registered	Agricultural	32 499,99	2,45	0,01	4,30	1,29	3,16
1	Registered	Agricultural	75 000,00	695,88	0,93	4,30	1,29	897,69
1	Registered	Agricultural	62 200,01	1 244,21	2,00	4,30	1,29	1 605,03
1	Registered	Agricultural	70 000,00	505,78	0,72	4,30	1,29	652,45
1	Registered	Agricultural	105 000,02	1 022,99	0,97	4,30	1,29	1 319,66
1	Registered	agricultural	2 852,20	0,70	0,02	4,30	1,29	0,91
1	Registered	agricultural	40 000,28	291,79	0,73	4,30	1,29	376,41
1	Registered	Agricultural	4 602,03	43,97	0,96	4,30	1,29	56,72
1	Registered	Agricultural	9 501,46	216,33	2,28	4,30	1,29	279,07
1	Registered	Agricultural	14 939,40	7,09	0,05	4,30	1,29	9,14
1	Registered	Agricultural	6 874,78	67,71	0,98	4,30	1,29	87,34
1	Registered	Agricultural	200 000,49	2 162,64	1,08	4,30	1,29	2 789,81
1	Registered	Agricultural	9 985,61	115,80	1,16	4,30	1,29	149,39
1	Registered	Agricultural	7 836,15	45,32	0,58	4,30	1,29	58,46
1	Registered	Agricultural	6 000,02	9,82	0,16	4,30	1,29	12,67
1	Registered	Agricultural homestead	2 559,64	8,33	0,33	4,30	1,29	10,75
1	Registered	Agricultural	5 684,51	0,66	0,01	4,30	1,29	0,85
1	Registered	Agricultural	7 283,28	70,40	0,97	4,30	1,29	90,82
1	Registered	Agricultural	6 954,79	67,96	0,98	4,30	1,29	87,66
1	Registered	Agricultural	1 493,23	1,29	0,09	4,30	1,29	1,66
1	Registered	Agricultural	2 095,00	0,37	0,02	4,30	1,29	0,47
1	Registered	Agricultural	40 540,01	294,99	0,73	4,30	1,29	380,54
1	Registered	Agricultural	8 890,01	83,47	0,94	4,30	1,29	107,68
1	Registered	Agricultural	9 464,09	98,50	1,04	4,30	1,29	127,07
1	Registered	Agricultural	5 101,20	47,47	0,93	4,30	1,29	61,23
1	Registered	Agricultural	5 822,38	56,97	0,98	4,30	1,29	73,49
1	Registered	Agricultural	5 817,03	57,36	0,99	4,30	1,29	74,00
1	Registered	agricultural	245 000,37	2 969,06	1,21	4,30	1,29	3 830,09
1	Registered	Agricultural	6 537,14	64,84	0,99	4,30	1,29	83,65
1	Registered	Agricultural	2 856,55	0,21	0,01	4,30	1,29	0,27
1	Registered	agricultural	13 445,25	6,04	0,04	4,30	1,29	7,79
1	Registered	agricultural	908,65	63,00	6,93	4,30	1,29	81,27
1	Registered	agricultural	7 842,55	63,81	0,81	4,30	1,29	82,32
1	Registered	agricultural	6 022,06	44,63	0,74	4,30	1,29	57,58
1	Registered	agricultural	7 702,66	61,06	0,79	4,30	1,29	78,77
1	Registered	agricultural	2 773,49	128,30	4,63	4,30	1,29	165,50
1	Registered	Agricultural	6 500,33	6,63	0,10	4,30	1,29	8,56
1	Registered	agricultural	4 000,33	45,23	1,13	4,30	1,29	58,35
1	Registered	Agricultural	2 500,09	37,59	1,50	4,30	1,29	48,50
1	Registered	agricultural	4 585,12	3,06	0,07	4,30	1,29	3,95

1	Registered	agricultural	3 558,00	24,03	0,68	4,30	1,29	31,01
1	Registered	agricultural	1 569,12	27,29	1,74	4,30	1,29	35,21
1	Registered	Agricultural	11 371,59	43,03	0,38	4,30	1,29	55,51
1	Registered	agricultural	5 698,62	38,48	0,68	4,30	1,29	49,64
1	Registered	agricultural	5 988,90	56,52	0,94	4,30	1,29	72,91
1	Registered	agricultural	4 988,10	66,80	1,34	4,30	1,29	86,17
1	Registered	agricultural	3 295,80	2,70	0,08	4,30	1,29	3,48
1	Registered	agricultural	8 317,07	63,14	0,76	4,30	1,29	81,45
1	Registered	agricultural	9 918,16	48,70	0,49	4,30	1,29	62,83
1	Registered	Agricultural	48 150,07	17,89	0,04	4,30	1,29	23,08
1	Registered	Agricultural	20 176,40	190,84	0,95	4,30	1,29	246,19
1	Registered	agricultural	3 826,85	0,02	0,00	4,30	1,29	0,03
1	Registered	agricultural	9 740,78	66,15	0,68	4,30	1,29	85,33
1	Registered	agricultural	4 985,20	68,01	1,36	4,30	1,29	87,74
1	Registered	Agricultural	14 338,01	136,23	0,95	4,30	1,29	175,74
1	Registered	agricultural	4 965,82	33,46	0,67	4,30	1,29	43,16
1	Registered	agricultural	3 500,40	1,32	0,04	4,30	1,29	1,71
1	Registered	Agricultural	8 104,66	3,04	0,04	4,30	1,29	3,92
1	Registered	agricultural	8 850,00	91,71	1,04	4,30	1,29	118,30
1	Registered	agricultural	20 005,11	0,18	0,00	4,30	1,29	0,24
1	Registered	Agricultural	3 929,19	38,58	0,98	4,30	1,29	49,77
1	Registered	Agricultural	2 490,25	1,51	0,06	4,30	1,29	1,95
1	Registered	agricultural	49 694,03	5,09	0,01	4,30	1,29	6,56
1	Registered	agricultural	87 267,03	614,54	0,70	4,30	1,29	792,75
1	Registered	agricultural	71 162,03	61,86	0,09	4,30	1,29	79,79
1	Registered	agricultural	83 794,01	741,33	0,88	4,30	1,29	956,32
1	Registered	agricultural	1 926,54	18,02	0,94	4,30	1,29	23,24
1	Registered	agricultural	4 946,23	33,47	0,68	4,30	1,29	43,18
1	Registered	agricultural	5 919,71	0,48	0,01	4,30	1,29	0,62
1	Registered	agricultural	13 412,37	146,92	1,10	4,30	1,29	189,53
1	Registered	agricultural	5 582,87	55,64	1,00	4,30	1,29	71,78
1	Registered	agricultural	3 275,58	53,62	1,64	4,30	1,29	69,17
1	Registered	agricultural	3 674,77	54,92	1,49	4,30	1,29	70,85
1	Registered	agricultural	5 096,29	33,75	0,66	4,30	1,29	43,54
1	Registered	Agricultural	5 099,15	33,69	0,66	4,30	1,29	43,46
1	Registered	Agricultural	3 806,55	29,67	0,78	4,30	1,29	38,27
1	Registered	Agricultural	10 773,89	82,66	0,77	4,30	1,29	106,63
1	Registered	Agricultural	2 199,45	130,99	5,96	4,30	1,29	168,97
1	Registered	agricultural	2 919,01	34,41	1,18	4,30	1,29	44,39
1	Registered	agricultural	4 330,34	49,39	1,14	4,30	1,29	63,71
1	Registered	agricultural	4 480,27	50,83	1,13	4,30	1,29	65,57
1	Registered	agricultural	7 255,02	70,95	0,98	4,30	1,29	91,52
1	Registered	Agricultural	54 999,80	719,98	1,31	4,30	1,29	928,78
1	Registered	agricultural	3 284,79	40,65	1,24	4,30	1,29	52,43
1	Registered	agricultural	11 993,80	80,41	0,67	4,30	1,29	103,73

1	Registered	agricultural	9 074,15	4,55	0,05	4,30	1,29	5,86
1	Registered	Agricultural	5 996,65	39,88	0,67	4,30	1,29	51,45
1	Registered	agricultural	4 238,28	28,00	0,66	4,30	1,29	36,12
1	Registered	agricultural	4 800,41	31,61	0,66	4,30	1,29	40,77
1	Registered	Agricultural	4 129,30	17,54	0,42	4,30	1,29	22,63
1	Registered	Agricultural	2 099,83	13,79	0,66	4,30	1,29	17,79
1	Registered	agricultural	6 728,33	125,73	1,87	4,30	1,29	162,20
1	Registered	agricultural	4 230,61	28,00	0,66	4,30	1,29	36,12
1	Registered	agricultural	4 220,44	27,70	0,66	4,30	1,29	35,73
1	Registered	Agricultural	4 337,56	42,42	0,98	4,30	1,29	54,73
1	Registered	agricultural	5 800,14	97,78	1,69	4,30	1,29	126,14
1	Registered	agricultural	9 567,62	137,17	1,43	4,30	1,29	176,95
1	Registered	Agricultural	12 541,28	1,54	0,01	4,30	1,29	1,99
1	Registered	agricultural	7 265,03	9,96	0,14	4,30	1,29	12,84
1	Registered	Agricultural	2 162,98	0,01	0,00	4,30	1,29	0,01
1	Registered	agricultural	8 849,71	167,32	1,89	4,30	1,29	215,84
1	Registered	agricultural	15 806,91	347,25	2,20	4,30	1,29	447,95
1	Registered	agricultural	49 941,99	368,25	0,74	4,30	1,29	475,05
1	Registered	Agricultural	100 000,38	740,59	0,74	4,30	1,29	955,37
1	Registered	agricultural	3 000,39	4,22	0,14	4,30	1,29	5,44
1	Registered	Agricultural	12 700,38	119,97	0,94	4,30	1,29	154,76
1	Registered	Agricultural	8 300,23	80,69	0,97	4,30	1,29	104,09
1	Registered	agricultural	7 672,26	0,07	0,00	4,30	1,29	0,09
1	Registered	agricultural	39 999,97	291,46	0,73	4,30	1,29	375,98
1	Registered	agricultural	10 700,08	415,63	3,88	4,30	1,29	536,16
1	Registered	Agricultural	8 900,35	81,11	0,91	4,30	1,29	104,63
1	Registered	agricultural	5 800,25	80,14	1,38	4,30	1,29	103,38
1	Registered	Agricultural	6 354,08	75,17	1,18	4,30	1,29	96,97
1	Registered	agricultural	8 811,31	121,47	1,38	4,30	1,29	156,70
1	Registered	agricultural	2 185,77	83,16	3,80	4,30	1,29	107,28
1	Registered	Agricultural	7 881,67	22,34	0,28	4,30	1,29	28,82
1	Registered	agricultural	70 000,08	506,92	0,72	4,30	1,29	653,92
1	Registered	Agricultural	2 675,63	0,65	0,02	4,30	1,29	0,84
1	Registered	Agricultural	2 224,57	12,52	0,56	4,30	1,29	16,15
1	Registered	Agricultural	2 297,64	0,01	0,00	4,30	1,29	0,02
1	Registered	Agricultural	8 164,62	60,54	0,74	4,30	1,29	78,10
1	Registered	Agricultural	4 812,72	20,41	0,42	4,30	1,29	26,34
1	Registered	Agricultural	9 160,02	186,22	2,03	4,30	1,29	240,22
1	Registered	Agricultural	6 638,23	138,80	2,09	4,30	1,29	179,05
1	Registered	Agricultural	3 916,62	59,48	1,52	4,30	1,29	76,73
1	Registered	Agricultural	2 008,86	8,91	0,44	4,30	1,29	11,49
1	Registered	Agricultural	801,04	3,05	0,38	4,30	1,29	3,94
1	Registered	Agricultural	3 957,87	21,63	0,55	4,30	1,29	27,90
1	Registered	Agricultural	3 567,81	0,02	0,00	4,30	1,29	0,03
1	Registered	Agricultural	7 024,34	228,37	3,25	4,30	1,29	294,60

1	Registered	Agricultural	6 200,84	101,31	1,63	4,30	1,29	130,69
1	Registered	Agricultural	3 421,40	0,35	0,01	4,30	1,29	0,45
1	Registered	Agricultural	3 864,85	37,70	0,98	4,30	1,29	48,63
1	Registered	Agricultural	4 258,88	7,84	0,18	4,30	1,29	10,11
1	Registered	Agricultural	1 602,08	15,71	0,98	4,30	1,29	20,27
1	Registered	Agricultural	7 032,78	82,68	1,18	4,30	1,29	106,66
1	Registered	Agricultural	4 131,92	10,01	0,24	4,30	1,29	12,91
1	Registered	Agricultural	2 933,33	15,55	0,53	4,30	1,29	20,06
1	Registered	Agricultural	3 400,55	0,19	0,01	4,30	1,29	0,24
1	Registered	Agricultural	9 603,70	243,61	2,54	4,30	1,29	314,26
1	Registered	Agricultural	2 735,46	0,04	0,00	4,30	1,29	0,05
1	Registered	Agricultural	3 453,68	19,82	0,57	4,30	1,29	25,57
1	Registered	Agricultural	5 697,58	2,01	0,04	4,30	1,29	2,60
1	Registered	Agricultural	4 171,47	1,01	0,02	4,30	1,29	1,31
1	Registered	Agricultural	2 455,18	40,59	1,65	4,30	1,29	52,36
1	Registered	Agricultural	4 600,86	0,08	0,00	4,30	1,29	0,11
1	Registered	Agricultural	7 096,55	28,45	0,40	4,30	1,29	36,70
1	Registered	Agricultural	4 017,01	18,17	0,45	4,30	1,29	23,44
1	Registered	Agricultural	10 202,97	137,53	1,35	4,30	1,29	177,41
1	Registered	Agricultural	9 216,61	7,62	0,08	4,30	1,29	9,84
1	Registered	Agricultural	6 266,04	108,45	1,73	4,30	1,29	139,91
1	Registered	Agricultural	10 666,18	96,28	0,90	4,30	1,29	124,20
1	Registered	Agricultural	3 681,80	0,09	0,00	4,30	1,29	0,12
1	Registered	Agricultural	6 230,74	13,98	0,22	4,30	1,29	18,03
1	Registered	Agricultural	10 098,44	44,98	0,45	4,30	1,29	58,03
1	Registered	Agricultural	3 955,32	18,34	0,46	4,30	1,29	23,66
1	Registered	Agricultural	10 086,05	7,17	0,07	4,30	1,29	9,25
1	Registered	Agricultural	4 034,40	0,04	0,00	4,30	1,29	0,05
1	Registered	Agricultural	12 462,10	4,30	0,03	4,30	1,29	5,55
1	Registered	Agricultural	7 892,18	105,61	1,34	4,30	1,29	136,24
1	Registered	Agricultural	2 051,56	76,29	3,72	4,30	1,29	98,41
1	Registered	agricultural	2 051,56	76,29	3,72	4,30	1,29	98,41
1	Registered	agricultural	12 726,14	75,40	0,59	4,30	1,29	97,27
1	Registered	agricultural	4 460,16	75,40	1,69	4,30	1,29	97,27
1	Registered	agricultural	6 750,04	18,23	0,27	4,30	1,29	23,51
1	Registered	Agricultural	7 078,33	105,39	1,49	4,30	1,29	135,95
1	Registered	Agricultural	16 359,55	555,27	3,39	4,30	1,29	716,30
1	Registered	Agricultural	1 679,12	16,48	0,98	4,30	1,29	21,26
1	Registered	agricultural	36 672,28	573,88	1,56	4,30	1,29	740,31
1	Registered	Agricultural	6 200,84	42,36	0,68	4,30	1,29	54,65
1	Registered	agricultural	3 508,02	80,51	2,30	4,30	1,29	103,86
1	Registered	Agricultural	14 593,78	2,11	0,01	4,30	1,29	2,72
1	Registered	Agricultural	1 734,21	175,40	10,11	4,30	1,29	226,26
1	Registered	agricultural	1 207,74	134,79	11,16	4,30	1,29	173,88
1	Registered	Agricultural	3 648,87	14,67	0,40	4,30	1,29	18,92

1	Registered	Agricultural	2 456,69	0,28	0,01	4,30	1,29	0,36
1	Registered	Agricultural	7 024,34	151,61	2,16	4,30	1,29	195,58
1	Registered	Agricultural	1 152,14	1,49	0,13	4,30	1,29	1,92
1	Registered	agricultural	9 488,95	62,16	0,66	4,30	1,29	80,19
1	Registered	agricultural	3 918,89	25,06	0,64	4,30	1,29	32,33
1	Registered	Agricultural	8 980,25	59,44	0,66	4,30	1,29	76,68
1	Registered	agricultural	7 314,01	65,96	0,90	4,30	1,29	85,09
1	Registered	agricultural	9 620,23	68,01	0,71	4,30	1,29	87,74
1	Registered	Agricultural	3 800,01	44,48	1,17	4,30	1,29	57,39
1	Registered	Agricultural	10 999,69	72,21	0,66	4,30	1,29	93,16
1	Registered	Agricultural	3 199,77	69,40	2,17	4,30	1,29	89,53
1	Registered	Agricultural	10 392,29	70,25	0,68	4,30	1,29	90,63
1	Registered	Agricultural	3 205,15	110,05	3,43	4,30	1,29	141,96
1	Registered	agricultural	34 749,29	318,79	0,92	4,30	1,29	411,24
1	Registered	Agricultural	3 227,94	13,91	0,43	4,30	1,29	17,94
1	Registered	agricultural	6 445,07	2,79	0,04	4,30	1,29	3,60
1	Registered	Agricultural	5 482,64	1,71	0,03	4,30	1,29	2,21
1	Registered	Agricultural	1 986,66	53,03	2,67	4,30	1,29	68,40
1	Registered	Agricultural	1 816,09	24,01	1,32	4,30	1,29	30,97
1	Registered	Agricultural	1 493,23	1,29	0,09	4,30	1,29	1,66
1	Registered	agricultural	3 284,79	40,65	1,24	4,30	1,29	52,43
1	Registered	Agricultural	8 327,76	75,26	0,90	4,30	1,29	97,09
1	Registered	Agricultural	4 602,03	43,97	0,96	4,30	1,29	56,72
1	Registered	Agricultural	1 926,54	18,02	0,94	4,30	1,29	23,24
1	Registered	agricultural	2 185,77	83,16	3,80	4,30	1,29	107,28
1	Registered	agricultural	3 014,11	27,04	0,90	4,30	1,29	34,88
1	Registered	agricultural	2 852,20	0,70	0,02	4,30	1,29	0,91
1	Registered	agricultural	2 819,64	0,66	0,02	4,30	1,29	0,85
1	Registered	Agricultural	2 575,76	18,30	0,71	4,30	1,29	23,60
1	Registered	agricultural	1 322,00	5,04	0,38	4,30	1,29	6,50
1	Registered	Agricultural	823,23	22,70	2,76	4,30	1,29	29,28
1	Registered	Agricultural	5 684,51	0,66	0,01	4,30	1,29	0,85
1	Registered	agricultural	2 556,70	1,01	0,04	4,30	1,29	1,31
1	Registered	Agricultural	9 300,08	0,00	0,00	4,30	1,29	0,01
1	Registered	agricultural	6 083,92	1,10	0,02	4,30	1,29	1,42
1	Registered	Agricultural	801,04	14,98	1,87	4,30	1,29	19,33
1	Registered	Agricultural	6 125,67	164,04	2,68	4,30	1,29	211,61
1	Registered	Agricultural	2 610,70	12,58	0,48	4,30	1,29	16,23
1	Registered	agricultural	3 577,25	10,98	0,31	4,30	1,29	14,17
1	Registered	Agricultural	2 848,08	2,33	0,08	4,30	1,29	3,00
1	Registered	agricultural	826,14	0,54	0,07	4,30	1,29	0,70
1	Registered	Agricultural	3 279,73	44,94	1,37	4,30	1,29	57,97
1	Registered	agricultural	2 378,24	75,13	3,16	4,30	1,29	96,92
1	Registered	agricultural	2 505,05	42,66	1,70	4,30	1,29	55,03
1	Registered	Agricultural	9 651,94	107,72	1,12	4,30	1,29	138,96

1	Registered	Agricultural	8 323,67	555,09	6,67	4,30	1,29	716,07
1	Registered	Agricultural	1 002,56	14,71	1,47	4,30	1,29	18,98
1	Registered	agricultural	1 292,64	0,02	0,00	4,30	1,29	0,02
1	Registered	agricultural	930,74	149,53	16,07	4,30	1,29	192,89
1	Registered	agricultural	1 669,76	25,70	1,54	4,30	1,29	33,15
1	Registered	Agricultural	1 707,97	0,84	0,05	4,30	1,29	1,09
1	Registered	agricultural	1 620,12	0,02	0,00	4,30	1,29	0,02
1	Registered	Agricultural	1 902,44	40,35	2,12	4,30	1,29	52,06
1	Registered	Agricultural	1 824,45	46,64	2,56	4,30	1,29	60,16
1	Registered	agricultural	930,74	0,44	0,05	4,30	1,29	0,56
1	Registered	agricultural	1 866,31	2,52	0,14	4,30	1,29	3,25
1	Registered	Agricultural	2 181,56	12,62	0,58	4,30	1,29	16,27
1	Registered	Agricultural	1 315,46	6,63	0,50	4,30	1,29	8,55
1	Registered	agricultural	2 190,08	10,15	0,46	4,30	1,29	13,09
1	Registered	Agricultural	4 139,46	59,50	1,44	4,30	1,29	76,76
1	Registered	agricultural	1 749,62	3,93	0,22	4,30	1,29	5,07
1	Registered	Agricultural	3 559,23	11,41	0,32	4,30	1,29	14,72
1	Registered	Agricultural	871,48	63,20	7,25	4,30	1,29	81,53
1	Registered	Agricultural	1 102,95	2,77	0,25	4,30	1,29	3,57
1	Registered	Agricultural	2 155,86	33,15	1,54	4,30	1,29	42,77
1	Registered	Agricultural	1 262,42	9,30	0,74	4,30	1,29	12,00
1	Registered	Agricultural	1 512,91	22,50	1,49	4,30	1,29	29,02
1	Registered	Agricultural	3 911,67	1,17	0,03	4,30	1,29	1,51
1	Registered	Agricultural	2 316,84	41,59	1,80	4,30	1,29	53,65
1	Registered	Agricultural	2 770,59	37,93	1,37	4,30	1,29	48,93
1	Registered	agricultural	8 360,86	7,45	0,09	4,30	1,29	9,61
1	Registered	agricultural	1 349,77	35,40	2,62	4,30	1,29	45,67
1	Registered	Agricultural	2 913,16	35,83	1,23	4,30	1,29	46,21
1	Registered	Agricultural	2 335,53	281,90	12,07	4,30	1,29	363,65
1	Registered	agricultural	1 139,47	1,27	0,11	4,30	1,29	1,64
1	Registered	Agricultural	1 652,58	38,36	2,32	4,30	1,29	49,49
1	Registered	Agricultural	1 942,83	6,83	0,35	4,30	1,29	8,81
1	Registered	Agricultural	1 152,39	0,88	0,08	4,30	1,29	1,13
1	Registered	Agricultural	3 213,47	87,15	2,71	4,30	1,29	112,42
1	Registered	Agricultural	3 062,63	64,76	2,11	4,30	1,29	83,54
1	Registered	agricultural	2 135,50	35,16	1,65	4,30	1,29	45,35
1	Registered	agricultural	1 859,53	15,37	0,83	4,30	1,29	19,82
1	Registered	Agricultural	538,21	6,59	1,22	4,30	1,29	8,50
1	Registered	Agricultural	2 270,40	39,84	1,75	4,30	1,29	51,40
1	Registered	Agricultural	2 729,74	30,61	1,12	4,30	1,29	39,48
1	Registered	Agricultural	1 678,41	39,82	2,37	4,30	1,29	51,37
1	Registered	Agricultural	986,82	19,99	2,03	4,30	1,29	25,79
1	Registered	Agricultural	493,06	0,88	0,18	4,30	1,29	1,14
1	Registered	agricultural	520,44	0,40	0,08	4,30	1,29	0,52
1	Registered	agricultural	2 965,32	0,61	0,02	4,30	1,29	0,78

1	Registered	Agricultural	861,68	13,14	1,52	4,30	1,29	16,94
1	Registered	Agricultural	1 644,63	29,19	1,77	4,30	1,29	37,65
1	Registered	Agricultural	1 000,01	0,20	0,02	4,30	1,29	0,26
1	Registered	agricultural	5 308,03	85,89	1,62	4,30	1,29	110,80
1	Registered	agricultural	1 799,55	92,61	5,15	4,30	1,29	119,47
1	Registered	agricultural	2 800,22	12,56	0,45	4,30	1,29	16,20
1	Registered	agricultural	1 400,78	192,78	13,76	4,30	1,29	248,69
1	Registered	Agricultural	953,56	2,71	0,28	4,30	1,29	3,49
1	Registered	Agricultural	2 709,61	4,04	0,15	4,30	1,29	5,21
1	Registered	Agricultural	1 371,95	11,12	0,81	4,30	1,29	14,35
1	Registered	Agricultural	2 808,61	135,67	4,83	4,30	1,29	175,01
1	Registered	Agricultural	1 229,60	238,95	19,43	4,30	1,29	308,25
1	Registered	agricultural	11 432,06	5,35	0,05	4,30	1,29	6,90
1	Registered	Agricultural	9 001,33	14,08	0,16	4,30	1,29	18,16
1	Registered	Agricultural	1 823,21	91,43	5,01	4,30	1,29	117,94
1	Registered	Agricultural	5 998,00	24,17	0,40	4,30	1,29	31,18
1	Registered	agricultural	2 888,20	46,23	1,60	4,30	1,29	59,64
1	Registered	agricultural	15 026,48	215,42	1,43	4,30	1,29	277,89
1	Registered	Agricultural	298,40	14,51	4,86	4,30	1,29	18,71
1	Registered	agricultural	1 359,78	52,22	3,84	4,30	1,29	67,36
1	Registered	Agricultural	11 065,08	255,33	2,31	4,30	1,29	329,38
1	Registered	agricultural	6 999,63	0,02	0,00	4,30	1,29	0,03
1	Registered	Agricultural	8 379,60	2,53	0,03	4,30	1,29	3,26
1	Registered	Agricultural	11 938,61	4,37	0,04	4,30	1,29	5,63
1	Registered	Agricultural	6 492,67	233,23	3,59	4,30	1,29	300,87
1	Registered	Agricultural	12 397,86	9,61	0,08	4,30	1,29	12,40
1	Registered	Agricultural	30 000,04	200,29	0,67	4,30	1,29	258,37
1	Registered	agricultural	1 906,25	7,42	0,39	4,30	1,29	9,57
1	Registered	agricultural	9 648,29	34,90	0,36	4,30	1,29	45,02
1	Registered	Agricultural	53 006,49	677,23	1,28	4,30	1,29	873,62
1	Registered	agricultural	4 144,62	10,52	0,25	4,30	1,29	13,57
1	Registered	agricultural	9 991,26	2,91	0,03	4,30	1,29	3,76
1	Registered	Agricultural	9 263,58	0,28	0,00	4,30	1,29	0,36
1	Registered	agricultural	3 657,68	0,00	0,00	4,30	1,29	0,01
1	Registered	agricultural	6 999,66	22,47	0,32	4,30	1,29	28,98
1	Registered	Agricultural	50 000,02	110,49	0,22	4,30	1,29	142,53
1	Registered	Agricultural	64 499,99	763,68	1,18	4,30	1,29	985,15
1	Registered	Agricultural	130 000,01	472,65	0,36	4,30	1,29	609,72
1	Registered	Agricultural	5 706,16	0,00	0,00	4,30	1,29	0,00
1	Registered	Agricultural	8 853,59	57,63	0,65	4,30	1,29	74,35
1	Registered	agricultural	7 087,31	46,31	0,65	4,30	1,29	59,74
1	Registered	Agricultural	4 788,47	6,14	0,13	4,30	1,29	7,92
1	Registered	Agricultural	5 967,02	38,95	0,65	4,30	1,29	50,25
1	Registered	agricultural	5 263,07	35,07	0,67	4,30	1,29	45,24
1	Registered	agricultural	2 707,96	17,80	0,66	4,30	1,29	22,96

1	Registered	agricultural	11 404,10	75,94	0,67	4,30	1,29	97,97
1	Registered	agricultural	8 400,40	94,72	1,13	4,30	1,29	122,19
1	Registered	agricultural	9 420,38	64,99	0,69	4,30	1,29	83,84
1	Registered	agricultural	12 219,85	83,47	0,68	4,30	1,29	107,68
1	Registered	agricultural	9 303,40	65,11	0,70	4,30	1,29	83,99
1	Registered	Agricultural	5 702,97	41,66	0,73	4,30	1,29	53,74
1	Registered	agricultural	9 964,46	73,61	0,74	4,30	1,29	94,95
1	Registered	Agricultural	2 490,25	0,77	0,03	4,30	1,29	0,99
1	Registered	agricultural	60 000,43	494,08	0,82	4,30	1,29	637,37
1	Registered	Agricultural	32 499,99	514,60	1,58	4,30	1,29	663,84
1	Registered	Agricultural	5 455,78	35,40	0,65	4,30	1,29	45,66
1	Registered	Agricultural	7 374,63	122,59	1,66	4,30	1,29	158,14
1	Registered	Agricultural	6 044,21	0,01	0,00	4,30	1,29	0,01
1	Registered	agricultural	2 799,77	2,38	0,09	4,30	1,29	3,07
1	Registered	Agricultural	8 164,62	70,93	0,87	4,30	1,29	91,50
1	Registered	Agricultural	4 812,72	1,03	0,02	4,30	1,29	1,33
1	Registered	Agricultural	2 170,40	44,44	2,05	4,30	1,29	57,33
1	Registered	Agricultural	8 197,76	0,02	0,00	4,30	1,29	0,03
1	Registered	Agricultural	7 629,20	76,86	1,01	4,30	1,29	99,15
1	Registered	Agricultural	2 255,66	27,28	1,21	4,30	1,29	35,20
1	Registered	Agricultural	2 882,80	7,59	0,26	4,30	1,29	9,79
1	Registered	agricultural	3 648,47	0,00	0,00	4,30	1,29	0,00
1	Registered	agricultural	6 657,08	68,17	1,02	4,30	1,29	87,94
1	Registered	agricultural	5 151,46	0,03	0,00	4,30	1,29	0,04
1	Registered	Agricultural	8 415,80	0,38	0,00	4,30	1,29	0,49
1	Registered	Agricultural	5 758,00	6,89	0,12	4,30	1,29	8,89
1	Registered	Agricultural	11 593,23	6,85	0,06	4,30	1,29	8,84
1	Registered	Agricultural	1 607,75	6,11	0,38	4,30	1,29	7,89
1	Registered	Agricultural	7 621,83	0,18	0,00	4,30	1,29	0,23
1	Registered	Agricultural	4 214,32	5,11	0,12	4,30	1,29	6,59
1	Registered	Agricultural	2 606,91	0,01	0,00	4,30	1,29	0,02
1	Registered	Agricultural	3 868,51	0,14	0,00	4,30	1,29	0,18
1	Registered	Agricultural	10 542,06	109,05	1,03	4,30	1,29	140,68
1	Registered	Agricultural	5 577,29	4,60	0,08	4,30	1,29	5,93
1	Registered	agricultural	6 304,56	60,15	0,95	4,30	1,29	77,59
1	Registered	agricultural	1 754,21	7,35	0,42	4,30	1,29	9,48
1	Registered	agricultural	6 658,93	64,03	0,96	4,30	1,29	82,60
1	Registered	Agricultural	3 304,50	43,45	1,31	4,30	1,29	56,05
1	Registered	Agricultural	8 692,55	11,27	0,13	4,30	1,29	14,54
1	Registered	Agricultural	8 484,72	7,76	0,09	4,30	1,29	10,01
1	Registered	Agricultural	7 776,16	67,59	0,87	4,30	1,29	87,19
1	Registered	agricultural	11 892,79	272,28	2,29	4,30	1,29	351,24
1	Registered	Agricultural	2 568,84	19,24	0,75	4,30	1,29	24,81
1	Registered	Agricultural	8 058,02	4,06	0,05	4,30	1,29	5,23
1	Registered	Agricultural	2 468,35	7,11	0,29	4,30	1,29	9,17

1	Registered	Agricultural	2 300,01	35,15	1,53	4,30	1,29	45,34
1	Registered	Agricultural	2 612,97	14,11	0,54	4,30	1,29	18,21
1	Registered	non-agricultural	1 310,23	0,61	0,05	4,30	1,29	0,79
1	Registered	Agricultural	2 200,05	0,26	0,01	4,30	1,29	0,34
1	Registered	Agricultural	2 053,57	26,62	1,30	4,30	1,29	34,33
1	Registered	Agricultural	3 348,00	33,54	1,00	4,30	1,29	43,27
1	Registered	agricultural	1 960,26	13,52	0,69	4,30	1,29	17,44
1	Registered	agricultural	1 994,71	48,64	2,44	4,30	1,29	62,74
1	Registered	Agricultural	7 918,14	136,39	1,72	4,30	1,29	175,94
1	Registered	Agricultural	1 975,09	26,66	1,35	4,30	1,29	34,39
1	Registered	Agricultural	3 049,84	17,58	0,58	4,30	1,29	22,67
1	Registered	Agricultural	9 055,27	138,74	1,53	4,30	1,29	178,98
1	Registered	Agricultural	4 999,99	0,02	0,00	4,30	1,29	0,03
1	Registered	Agricultural	5 000,27	15,76	0,32	4,30	1,29	20,33
1	Registered	Agricultural	5 000,12	364,64	7,29	4,30	1,29	470,38
1	Registered	Agricultural	5 656,30	36,50	0,65	4,30	1,29	47,09
1	Registered	Agricultural	9 629,56	418,81	4,35	4,30	1,29	540,26
1	Registered	Agricultural	9 800,21	59,56	0,61	4,30	1,29	76,83
1	Registered	Agricultural	10 050,66	145,55	1,45	4,30	1,29	187,76
1	Registered	Agricultural	5 938,97	81,64	1,37	4,30	1,29	105,32
1	Registered	agricultural	8 872,26	55,69	0,63	4,30	1,29	71,84
1	Registered	agricultural	5 032,66	88,23	1,75	4,30	1,29	113,82
1	Registered	agricultural	6 561,62	46,12	0,70	4,30	1,29	59,50
1	Registered	agricultural	2 708,04	18,92	0,70	4,30	1,29	24,41
1	Registered	agricultural	7 146,12	23,63	0,33	4,30	1,29	30,48
1	Registered	Agricultural	5 014,95	2,97	0,06	4,30	1,29	3,83
1	Registered	agricultural	2 614,76	19,60	0,75	4,30	1,29	25,29
1	Registered	Agricultural	10 868,82	535,47	4,93	4,30	1,29	690,75
1	Registered	Agricultural	2 980,25	109,48	3,67	4,30	1,29	141,23
1	Registered	Agricultural	4 461,50	47,23	1,06	4,30	1,29	60,93
1	Registered	Agricultural	2 038,06	22,42	1,10	4,30	1,29	28,92
1	Registered	agricultural	4 710,02	393,05	8,34	4,30	1,29	507,03
1	Registered	agricultural	3 192,81	35,33	1,11	4,30	1,29	45,58
1	Registered	Agricultural	4 974,43	6,03	0,12	4,30	1,29	7,78
1	Registered	Agricultural	7 567,60	34,70	0,46	4,30	1,29	44,76
1	Registered	Agricultural	6 337,14	54,48	0,86	4,30	1,29	70,28
1	Registered	agricultural	7 500,31	150,71	2,01	4,30	1,29	194,42
1	Registered	agricultural	4 000,29	63,94	1,60	4,30	1,29	82,48
1	Registered	Agricultural	12 111,63	0,59	0,00	4,30	1,29	0,77
1	Registered	Agricultural	2 462,42	0,12	0,00	4,30	1,29	0,16
1	Registered	Agricultural	9 186,53	0,80	0,01	4,30	1,29	1,03
1	Registered	Agricultural	2 463,43	3,82	0,15	4,30	1,29	4,92
1	Registered	Agricultural	9 323,36	40,23	0,43	4,30	1,29	51,90
1	Registered	agricultural	2 000,30	20,83	1,04	4,30	1,29	26,88
1	Registered	Agricultural	6 810,39	124,93	1,83	4,30	1,29	161,16

1	Registered	Agricultural	6 734,56	106,99	1,59	4,30	1,29	138,02
1	Registered	agricultural	7 400,09	5,78	0,08	4,30	1,29	7,45
1	Registered	Agricultural	9 921,64	73,72	0,74	4,30	1,29	95,10
1	Registered	agricultural	7 836,03	3,80	0,05	4,30	1,29	4,91
1	Registered	Agricultural	3 970,15	25,35	0,64	4,30	1,29	32,70
1	Registered	agricultural	2 124,55	252,21	11,87	4,30	1,29	325,35
1	Registered	agricultural	2 404,13	298,03	12,40	4,30	1,29	384,46
1	Registered	Agricultural	11 429,86	358,50	3,14	4,30	1,29	462,46
1	Registered	agricultural	8 333,52	43,29	0,52	4,30	1,29	55,85
1	Registered	agricultural	2 100,16	13,35	0,64	4,30	1,29	17,22
1	Registered	Agricultural	5 398,64	65,91	1,22	4,30	1,29	85,02
1	Registered	agricultural	4 131,90	37,62	0,91	4,30	1,29	48,54
1	Registered	Agricultural	10 700,05	144,14	1,35	4,30	1,29	185,94
1	Registered	Agricultural	4 790,14	34,37	0,72	4,30	1,29	44,33
1	Registered	Agricultural	4 780,03	4,34	0,09	4,30	1,29	5,59
1	Registered	agricultural	6 000,21	30,80	0,51	4,30	1,29	39,74
1	Registered	agricultural	4 799,86	4,80	0,10	4,30	1,29	6,19
1	Registered	Agricultural	7 259,41	0,42	0,01	4,30	1,29	0,55
1	Registered	Agricultural	3 021,05	51,64	1,71	4,30	1,29	66,62
1	Registered	Agricultural	6 675,03	22,41	0,34	4,30	1,29	28,91
1	Registered	agricultural	7 350,26	0,32	0,00	4,30	1,29	0,41
1	Registered	agricultural	4 337,63	67,95	1,57	4,30	1,29	87,65
1	Registered	agricultural	2 444,05	46,77	1,91	4,30	1,29	60,34
1	Registered	agricultural	4 350,88	1,18	0,03	4,30	1,29	1,52
1	Registered	Agricultural	8 993,33	1,15	0,01	4,30	1,29	1,48
1	Registered	Agricultural	5 028,89	29,38	0,58	4,30	1,29	37,90
1	Registered	Agricultural	2 408,04	7,18	0,30	4,30	1,29	9,26
1	Registered	Agricultural	11 276,09	259,94	2,31	4,30	1,29	335,33
1	Registered	Agricultural	147,80	95,36	64,52	4,30	1,29	123,01
1	Registered	Agricultural	6 735,84	22,75	0,34	4,30	1,29	29,35
1	Registered	Agricultural	3 064,65	42,14	1,38	4,30	1,29	54,36
1	Registered	Agricultural	5 017,33	90,43	1,80	4,30	1,29	116,65
1	Registered	Agricultural	4 788,47	17,76	0,37	4,30	1,29	22,91
1	Registered	Agricultural	4 157,56	10,66	0,26	4,30	1,29	13,76
1	Registered	Agricultural	12 244,64	127,62	1,04	4,30	1,29	164,63
1	Registered	agricultural	5 290,31	1,85	0,04	4,30	1,29	2,39
1	Registered	agricultural	3 800,00	5,79	0,15	4,30	1,29	7,47
1	Registered	Agricultural	3 875,40	36,77	0,95	4,30	1,29	47,43
1	Registered	Agricultural	10 464,67	100,67	0,96	4,30	1,29	129,87
1	Registered	Agricultural	6 929,44	81,42	1,18	4,30	1,29	105,04
1	Registered	Agricultural	4 891,30	4,84	0,10	4,30	1,29	6,24
1	Registered	Agricultural	5 543,90	0,88	0,02	4,30	1,29	1,13
1	Registered	Agricultural	3 127,07	23,34	0,75	4,30	1,29	30,11
1	Registered	Agricultural	10 334,13	71,30	0,69	4,30	1,29	91,98
1	Registered	Agricultural	30 154,13	194,61	0,65	4,30	1,29	251,05

1	Registered	Agricultural	11 504,78	91,82	0,80	4,30	1,29	118,44
1	Registered	agricultural	3 357,88	9,77	0,29	4,30	1,29	12,61
1	Registered	agricultural	415,16	59,39	14,31	4,30	1,29	76,61
1	Registered	agricultural	3 070,64	13,67	0,45	4,30	1,29	17,63
1	Registered	agricultural	1 442,20	1,88	0,13	4,30	1,29	2,42
1	Registered	Agricultural	1 633,53	44,59	2,73	4,30	1,29	57,52
1	Registered	Agricultural	1 000,01	5,25	0,52	4,30	1,29	6,77
1	Registered	Agricultural	1 602,58	0,14	0,01	4,30	1,29	0,19
1	Registered	agricultural	1 571,71	0,52	0,03	4,30	1,29	0,67
1	Registered	Agricultural	1 206,34	0,42	0,03	4,30	1,29	0,54
1	Registered	agricultural	2 019,64	23,95	1,19	4,30	1,29	30,89
1	Registered	Agricultural	3 900,26	33,86	0,87	4,30	1,29	43,68
1	Registered	Agricultural	2 079,88	2,21	0,11	4,30	1,29	2,85
1	Registered	Agricultural	601,55	2,50	0,42	4,30	1,29	3,22
1	Registered	agricultural	499,00	0,10	0,02	4,30	1,29	0,13
1	Registered	Agricultural	33 373,55	0,36	0,00	4,30	1,29	0,46
1	Registered	agricultural	780,49	0,42	0,05	4,30	1,29	0,54
1	Registered	agricultural	3 793,16	0,00	0,00	4,30	1,29	0,01
1	Registered	Agricultural	49 995,48	798,34	1,60	4,30	1,29	1 029,86
1	Registered	agricultural	1 000,17	171,92	17,19	4,30	1,29	221,78
1	Registered	Agricultural	2 812,14	0,19	0,01	4,30	1,29	0,25
1	Registered	Agricultural	4 990,52	62,52	1,25	4,30	1,29	80,65
1	Registered	agricultural	8 590,09	19,24	0,22	4,30	1,29	24,82
1	Registered	Agricultural	7 990,06	1,15	0,01	4,30	1,29	1,49
1	Registered	Agricultural	6 731,97	101,32	1,51	4,30	1,29	130,70
1	Registered	Agricultural	4 443,63	37,19	0,84	4,30	1,29	47,98
1	Registered	agricultural	8 502,60	0,56	0,01	4,30	1,29	0,72
1	Registered	agricultural	2 561,30	38,69	1,51	4,30	1,29	49,91
1	Registered	Agricultural	5 864,35	14,41	0,25	4,30	1,29	18,59
1	Registered	agricultural	8 462,06	0,05	0,00	4,30	1,29	0,06
1	Registered	agricultural	2 970,35	0,47	0,02	4,30	1,29	0,61
1	Registered	Agricultural	7 355,00	205,22	2,79	4,30	1,29	264,74
1	Registered	Agricultural	7 759,68	3,89	0,05	4,30	1,29	5,02
1	Registered	agricultural	8 516,06	29,50	0,35	4,30	1,29	38,05
1	Registered	agricultural	8 567,01	112,72	1,32	4,30	1,29	145,41
1	Registered	agricultural	6 269,39	183,12	2,92	4,30	1,29	236,23
1	Registered	agricultural	5 475,16	46,14	0,84	4,30	1,29	59,52
1	Registered	Agricultural	4 228,73	341,85	8,08	4,30	1,29	440,99
1	Registered	Agricultural	4 902,85	176,59	3,60	4,30	1,29	227,81
1	Registered	Agricultural	3 301,15	63,49	1,92	4,30	1,29	81,90
1	Registered	agricultural	2 403,42	23,85	0,99	4,30	1,29	30,77
1	Registered	agricultural	3 237,81	32,95	1,02	4,30	1,29	42,50
1	Registered	Agricultural	8 421,52	76,58	0,91	4,30	1,29	98,79
1	Registered	agricultural	4 892,47	50,12	1,02	4,30	1,29	64,65
1	Registered	agricultural	12 640,05	114,66	0,91	4,30	1,29	147,91

1	Registered	Agricultural	2 114,29	52,43	2,48	4,30	1,29	67,63
1	Registered	Agricultural	7 612,83	50,83	0,67	4,30	1,29	65,57
1	Registered	Agricultural	2 141,06	18,16	0,85	4,30	1,29	23,43
1	Registered	Agricultural	5 093,70	0,03	0,00	4,30	1,29	0,04
1	Registered	agricultural	1 700,32	16,12	0,95	4,30	1,29	20,79
1	Registered	Agricultural	6 988,15	1,31	0,02	4,30	1,29	1,69
1	Registered	Agricultural	7 684,00	130,38	1,70	4,30	1,29	168,19
1	Registered	Agricultural	5 000,02	79,71	1,59	4,30	1,29	102,82
1	Registered	agricultural	5 663,35	251,44	4,44	4,30	1,29	324,36
1	Registered	agricultural	3 405,67	186,54	5,48	4,30	1,29	240,64
1	Registered	agricultural	4 573,21	57,01	1,25	4,30	1,29	73,55
1	Registered	Agricultural	3 886,59	60,00	1,54	4,30	1,29	77,40
1	Registered	agricultural	3 447,26	153,51	4,45	4,30	1,29	198,03
1	Registered	Agricultural	8 998,32	156,48	1,74	4,30	1,29	201,85
1	Registered	agricultural	4 341,21	117,86	2,72	4,30	1,29	152,05
1	Registered	agricultural	3 164,64	0,00	0,00	4,30	1,29	0,00
1	Registered	Agricultural mower	5 156,41	162,95	3,16	4,30	1,29	210,21
1	Registered	Agricultural	8 921,00	53,16	0,60	4,30	1,29	68,58
1	Registered	Agricultural	4 030,11	164,80	4,09	4,30	1,29	212,59
1	Registered	agricultural	2 752,35	32,40	1,18	4,30	1,29	41,79
1	Registered	agricultural	6 014,12	47,48	0,79	4,30	1,29	61,26
1	Registered	Agricultural	10 239,52	1,98	0,02	4,30	1,29	2,56
1	Registered	Agricultural mower	2 972,67	15,90	0,53	4,30	1,29	20,51
1	Registered	agricultural	3 000,38	0,04	0,00	4,30	1,29	0,05
1	Registered	agricultural	5 197,36	28,46	0,55	4,30	1,29	36,72
1	Registered	Agricultural	6 522,10	8,60	0,13	4,30	1,29	11,09
1	Registered	Agricultural	4 629,75	63,59	1,37	4,30	1,29	82,03
1	Registered	agricultural	3 666,86	51,63	1,41	4,30	1,29	66,60
1	Registered	Agricultural	7 511,76	21,62	0,29	4,30	1,29	27,89
1	Registered	agricultural	4 690,17	140,65	3,00	4,30	1,29	181,44
1	Registered	agricultural	6 007,43	2,68	0,04	4,30	1,29	3,46
1	Registered	Agricultural	3 200,10	1,77	0,06	4,30	1,29	2,28
1	Registered	agricultural	2 273,67	22,83	1,00	4,30	1,29	29,45
1	Registered	agricultural	10 994,29	3,85	0,03	4,30	1,29	4,96
1	Registered	Agricultural	8 771,51	70,59	0,80	4,30	1,29	91,06
1	Registered	Agricultural	9 002,73	152,94	1,70	4,30	1,29	197,29
1	Registered	agricultural	7 988,28	23,04	0,29	4,30	1,29	29,72
1	Registered	Agricultural	13 100,38	359,78	2,75	4,30	1,29	464,12
1	Registered	agricultural	6 388,84	234,43	3,67	4,30	1,29	302,42
1	Registered	Agricultural	10 188,52	292,87	2,87	4,30	1,29	377,81
1	Registered	agricultural	38 252,33	502,98	1,31	4,30	1,29	648,84
1	Registered	Agricultural	5 819,22	125,92	2,16	4,30	1,29	162,43
1	Registered	Agricultural	7 571,02	22,69	0,30	4,30	1,29	29,28
1	Registered	Agricultural	8 470,95	3,80	0,04	4,30	1,29	4,90

1	Registered	Agricultural	7 503,81	47,18	0,63	4,30	1,29	60,87
1	Registered	agricultural	12 499,80	119,32	0,95	4,30	1,29	153,92
1	Registered	Agricultural	1 992,82	0,83	0,04	4,30	1,29	1,07
1	Registered	Agricultural	4 718,99	33,54	0,71	4,30	1,29	43,27
1	Registered	Agricultural	5 080,25	35,99	0,71	4,30	1,29	46,43
1	Registered	agricultural	4 678,55	34,33	0,73	4,30	1,29	44,29
1	Registered	Agricultural	4 924,96	36,06	0,73	4,30	1,29	46,52
1	Registered	agricultural	9 950,02	71,01	0,71	4,30	1,29	91,61
1	Registered	agricultural	5 561,30	39,25	0,71	4,30	1,29	50,63
1	Registered	Agricultural	5 201,26	38,07	0,73	4,30	1,29	49,10
1	Registered	Agricultural	2 226,04	15,52	0,70	4,30	1,29	20,02
1	Registered	agricultural	4 285,51	51,10	1,19	4,30	1,29	65,92
1	Registered	agricultural	4 927,00	36,68	0,74	4,30	1,29	47,32
1	Registered	Agricultural	5 637,87	40,16	0,71	4,30	1,29	51,80
1	Registered	Agricultural	10 100,01	178,17	1,76	4,30	1,29	229,84
1	Registered	Agricultural	4 075,22	141,20	3,46	4,30	1,29	182,15
1	Registered	Agricultural	10 339,59	124,80	1,21	4,30	1,29	160,99
1	Registered	Agricultural	1 373,75	34,35	2,50	4,30	1,29	44,31
1	Registered	agricultural	1 259,24	30,91	2,45	4,30	1,29	39,87
1	Registered	agricultural	7 585,91	99,68	1,31	4,30	1,29	128,58
1	Registered	Agricultural	1 465,49	8,98	0,61	4,30	1,29	11,58
1	Registered	Agricultural	3 656,87	33,01	0,90	4,30	1,29	42,59
1	Registered	Agricultural	13 631,51	38,29	0,28	4,30	1,29	49,40
1	Registered	agricultural	2 598,03	2,36	0,09	4,30	1,29	3,05
1	Registered	agricultural	3 427,42	107,86	3,15	4,30	1,29	139,14
1	Registered	agricultural	3 264,58	107,75	3,30	4,30	1,29	139,00
1	Registered	Agricultural	19 623,85	4,42	0,02	4,30	1,29	5,71
1	Registered	Agricultural	2 958,57	136,68	4,62	4,30	1,29	176,31
1	Registered	agricultural	6 378,53	54,58	0,86	4,30	1,29	70,41
1	Registered	agricultural	7 441,77	94,43	1,27	4,30	1,29	121,82
1	Registered	agricultural	21 304,79	96,10	0,45	4,30	1,29	123,97
1	Registered	agricultural	4 407,02	67,27	1,53	4,30	1,29	86,77
1	Registered	Agricultural	5 677,70	91,66	1,61	4,30	1,29	118,25
1	Registered	Agricultural	2 614,61	0,86	0,03	4,30	1,29	1,11
1	Registered	agricultural	2 242,67	32,56	1,45	4,30	1,29	42,00
1	Registered	Agricultural	9 421,09	159,99	1,70	4,30	1,29	206,38
1	Registered	agricultural	4 789,83	25,34	0,53	4,30	1,29	32,68
1	Registered	agricultural	4 547,31	71,61	1,57	4,30	1,29	92,38
1	Registered	Agricultural	4 233,13	82,02	1,94	4,30	1,29	105,80
1	Registered	Agricultural	8 582,35	80,08	0,93	4,30	1,29	103,30
1	Registered	Agricultural	2 962,83	37,87	1,28	4,30	1,29	48,85
1	Registered	agricultural	5 215,80	2,67	0,05	4,30	1,29	3,44
1	Registered	Agricultural	12 585,48	61,46	0,49	4,30	1,29	79,29
1	Registered	Agricultural	7 000,60	34,09	0,49	4,30	1,29	43,97
1	Registered	Agricultural	7 905,31	38,74	0,49	4,30	1,29	49,97

1	Registered	Agricultural	3 182,68	15,79	0,50	4,30	1,29	20,36
1	Registered	Agricultural	5 969,75	39,22	0,66	4,30	1,29	50,59
1	Registered	Agricultural	3 287,44	325,30	9,90	4,30	1,29	419,64
1	Registered	Agricultural	1 743,61	35,13	2,02	4,30	1,29	45,32
1	Registered	Agricultural	9 074,93	167,27	1,84	4,30	1,29	215,77
1	Registered	agricultural	4 110,33	373,97	9,10	4,30	1,29	482,42
1	Registered	Agricultural	9 417,96	57,57	0,61	4,30	1,29	74,27
1	Registered	Agricultural	32 520,07	557,73	1,72	4,30	1,29	719,48
1	Registered	Agricultural	3 794,61	80,46	2,12	4,30	1,29	103,79
1	Registered	agricultural	10 100,01	113,10	1,12	4,30	1,29	145,90
1	Registered	Agricultural	32 479,94	593,90	1,83	4,30	1,29	766,13
1	Registered	agricultural	9 805,96	35,50	0,36	4,30	1,29	45,80
1	Registered	Agricultural	17 479,94	177,38	1,01	4,30	1,29	228,82
1	Registered	Agricultural	17 520,07	213,02	1,22	4,30	1,29	274,79
1	Registered	agricultural	9 817,48	27,23	0,28	4,30	1,29	35,13
1	Registered	agricultural	5 030,09	2,96	0,06	4,30	1,29	3,82
1	Registered	Agricultural	5 025,25	0,03	0,00	4,30	1,29	0,04
1	Registered	Agricultural	8 536,38	0,10	0,00	4,30	1,29	0,13
1	Registered	Agricultural	5 789,74	36,00	0,62	4,30	1,29	46,44
1	Registered	agricultural	50 000,06	243,25	0,49	4,30	1,29	313,80
1	Registered	agricultural	30 000,01	228,14	0,76	4,30	1,29	294,30
1	Registered	Agricultural	30 000,02	40,84	0,14	4,30	1,29	52,69
1	Registered	Agricultural	18 000,02	77,03	0,43	4,30	1,29	99,37
1	Registered	Agricultural	10 000,03	90,50	0,91	4,30	1,29	116,75
1	Registered	Agricultural	9 999,81	74,79	0,75	4,30	1,29	96,49
1	Registered	Agricultural	10 000,19	83,17	0,83	4,30	1,29	107,29
1	Registered	Agricultural	4 416,25	43,47	0,98	4,30	1,29	56,07
1	Registered	Agricultural	2 007,97	20,00	1,00	4,30	1,29	25,80
1	Registered	Agricultural	5 022,11	48,94	0,97	4,30	1,29	63,13
1	Registered	Agricultural	6 028,27	58,89	0,98	4,30	1,29	75,97
1	Registered	agricultural	3 501,01	34,29	0,98	4,30	1,29	44,24
1	Registered	agricultural	8 030,21	78,79	0,98	4,30	1,29	101,64
1	Registered	agricultural	6 112,95	59,98	0,98	4,30	1,29	77,38
1	Registered	agricultural	2 039,65	19,99	0,98	4,30	1,29	25,79
1	Registered	agricultural	2 010,04	21,07	1,05	4,30	1,29	27,18
1	Registered	agricultural	12 060,47	117,92	0,98	4,30	1,29	152,12
1	Registered	Agricultural	5 023,15	49,33	0,98	4,30	1,29	63,63
1	Registered	Agricultural	10 041,68	100,04	1,00	4,30	1,29	129,05
1	Registered	Agricultural	4 015,37	51,45	1,28	4,30	1,29	66,37
1	Registered	agricultural	4 734,55	44,82	0,95	4,30	1,29	57,82
1	Registered	Agricultural	1 990,94	19,04	0,96	4,30	1,29	24,56
1	Registered	agricultural	11 100,01	219,77	1,98	4,30	1,29	283,51
1	Registered	agricultural	16 574,37	596,20	3,60	4,30	1,29	769,10
1	Registered	agricultural	6 677,97	0,66	0,01	4,30	1,29	0,85
1	Registered	agricultural	6 679,20	45,15	0,68	4,30	1,29	58,25

1	Registered	Agricultural	6 176,86	23,98	0,39	4,30	1,29	30,93
1	Registered	agricultural	6 400,36	324,94	5,08	4,30	1,29	419,17
1	Registered	agricultural	7 000,43	391,38	5,59	4,30	1,29	504,88
1	Registered	Agricultural	8 400,73	101,12	1,20	4,30	1,29	130,44
1	Registered	Agricultural	130 000,01	774,13	0,60	4,30	1,29	998,62
1	Registered	Agricultural	5 318,82	63,03	1,19	4,30	1,29	81,31
1	Registered	Agricultural	5 304,39	535,94	10,10	4,30	1,29	691,37
1	Registered	Agricultural	3 696,11	6,76	0,18	4,30	1,29	8,73
1	Registered	Agricultural	7 447,01	16,55	0,22	4,30	1,29	21,35
1	Registered	agricultural	5 944,05	103,70	1,74	4,30	1,29	133,77
1	Registered	agricultural	4 607,12	0,09	0,00	4,30	1,29	0,12
1	Registered	agricultural	8 810,68	39,02	0,44	4,30	1,29	50,34
1	Registered	agricultural	3 411,56	7,66	0,22	4,30	1,29	9,89
1	Registered	agricultural	3 444,18	18,39	0,53	4,30	1,29	23,72
1	Registered	Agricultural	22 420,07	475,82	2,12	4,30	1,29	613,80
1	Registered	Agricultural	6 466,36	537,09	8,31	4,30	1,29	692,85
1	Registered	agricultural	2 098,98	20,62	0,98	4,30	1,29	26,60
1	Registered	Agricultural	981,22	9,73	0,99	4,30	1,29	12,56
1	Registered	agricultural	8 883,44	156,54	1,76	4,30	1,29	201,94
1	Registered	agricultural	8 847,16	11,64	0,13	4,30	1,29	15,01
1	Registered	agricultural	2 954,23	3,96	0,13	4,30	1,29	5,11
1	Registered	Agricultural	6 000,06	2,05	0,03	4,30	1,29	2,64
1	Registered	Agricultural	10 008,29	7,30	0,07	4,30	1,29	9,41
1	Registered	Agricultural	6 654,91	49,22	0,74	4,30	1,29	63,49
1	Registered	agricultural	8 139,23	11,36	0,14	4,30	1,29	14,65
1	Registered	Agricultural	6 756,03	36,14	0,53	4,30	1,29	46,62
1	Registered	Agricultural	8 269,61	6,01	0,07	4,30	1,29	7,75
1	Registered	Agricultural	3 188,97	11,71	0,37	4,30	1,29	15,10
1	Registered	Agricultural	1 837,48	0,43	0,02	4,30	1,29	0,55
1	Registered	Agricultural	9 040,49	1,65	0,02	4,30	1,29	2,13
1	Registered	agricultural	6 001,19	7,43	0,12	4,30	1,29	9,59
1	Registered	Agricultural	9 706,96	0,91	0,01	4,30	1,29	1,18
1	Registered	agricultural	5 275,81	14,40	0,27	4,30	1,29	18,58
1	Registered	Agricultural	8 773,20	145,01	1,65	4,30	1,29	187,06
1	Registered	agricultural	8 676,36	2,89	0,03	4,30	1,29	3,73
1	Registered	agricultural	6 664,13	0,80	0,01	4,30	1,29	1,03
1	Registered	Agricultural	5 505,92	17,30	0,31	4,30	1,29	22,32
1	Registered	Agricultural	2 967,39	0,93	0,03	4,30	1,29	1,20
1	Registered	Agricultural	5 746,55	10,09	0,18	4,30	1,29	13,01
1	Registered	agricultural	5 549,95	8,66	0,16	4,30	1,29	11,18
1	Registered	agricultural	12 130,86	52,95	0,44	4,30	1,29	68,31
1	Registered	Agricultural	8 945,10	2,36	0,03	4,30	1,29	3,04
1	Registered	Agricultural	4 055,54	1,97	0,05	4,30	1,29	2,55
1	Registered	Agricultural	3 835,48	12,96	0,34	4,30	1,29	16,72
1	Registered	agricultural	3 368,58	0,00	0,00	4,30	1,29	0,00

1	Registered	Agricultural	2 164,14	254,44	11,76	4,30	1,29	328,23
1	Registered	Agricultural	10 065,48	168,27	1,67	4,30	1,29	217,07
1	Registered	agricultural	5 790,50	124,02	2,14	4,30	1,29	159,98
1	Registered	Agricultural	4 565,98	100,63	2,20	4,30	1,29	129,81
1	Registered	agricultural	11 584,79	48,73	0,42	4,30	1,29	62,86
1	Registered	agricultural	1 443,23	4,00	0,28	4,30	1,29	5,16
1	Registered	Agricultural	16 283,08	329,69	2,02	4,30	1,29	425,30
1	Registered	Agricultural	4 810,10	76,66	1,59	4,30	1,29	98,89
1	Registered	Agricultural	15 467,17	367,11	2,37	4,30	1,29	473,58
1	Registered	Agricultural	15 109,13	242,11	1,60	4,30	1,29	312,32
1	Registered	Agricultural	20 291,04	462,73	2,28	4,30	1,29	596,92
1	Registered	Agricultural	3 758,03	215,57	5,74	4,30	1,29	278,08
1	Registered	Agricultural	11 194,15	225,71	2,02	4,30	1,29	291,17
1	Registered	Agricultural	11 061,76	143,96	1,30	4,30	1,29	185,70
1	Registered	agricultural	5 690,82	6,79	0,12	4,30	1,29	8,76
1	Registered	agricultural	6 476,10	100,24	1,55	4,30	1,29	129,31
1	Registered	Agricultural	2 244,52	12,72	0,57	4,30	1,29	16,41
1	Registered	Agricultural	8 263,66	162,46	1,97	4,30	1,29	209,57
1	Registered	Agricultural	8 872,08	22,08	0,25	4,30	1,29	28,48
1	Registered	Agricultural	14 592,48	207,75	1,42	4,30	1,29	267,99
1	Registered	Agricultural	5 997,48	58,00	0,97	4,30	1,29	74,82
1	Registered	Agricultural	15 522,47	5,95	0,04	4,30	1,29	7,67
1	Registered	agricultural	5 901,85	104,53	1,77	4,30	1,29	134,85
1	Registered	agricultural	10 610,15	128,65	1,21	4,30	1,29	165,95
1	Registered	agricultural	5 051,31	0,80	0,02	4,30	1,29	1,03
1	Registered	Agricultural	3 924,59	44,54	1,13	4,30	1,29	57,46
1	Registered	Agricultural	3 133,94	58,28	1,86	4,30	1,29	75,19
1	Registered	Agricultural	8 720,06	11,20	0,13	4,30	1,29	14,45
1	Registered	agricultural	5 389,59	116,77	2,17	4,30	1,29	150,63
1	Registered	Agricultural	4 367,62	206,21	4,72	4,30	1,29	266,01
1	Registered	Agricultural	600,22	28,44	4,74	4,30	1,29	36,69
1	Registered	Agricultural	472,27	8,36	1,77	4,30	1,29	10,79
1	Registered	Agricultural	698,12	65,91	9,44	4,30	1,29	85,03
1	Registered	Agricultural	15 684,47	195,25	1,24	4,30	1,29	251,87
1	Registered	Agricultural	8 826,64	201,75	2,29	4,30	1,29	260,26
1	Registered	Agricultural	3 083,31	118,05	3,83	4,30	1,29	152,29
1	Registered	Agricultural	7 072,70	82,21	1,16	4,30	1,29	106,05
1	Registered	Agricultural	8 566,97	93,41	1,09	4,30	1,29	120,50
1	Registered	Agricultural	8 567,06	1,69	0,02	4,30	1,29	2,19
1	Registered	Agricultural	6 019,87	45,81	0,76	4,30	1,29	59,09
1	Registered	Agricultural	5 040,60	44,85	0,89	4,30	1,29	57,86
1	Registered	Agricultural	5 620,98	0,66	0,01	4,30	1,29	0,85
1	Registered	agricultural	4 614,37	1,61	0,03	4,30	1,29	2,08
1	Registered	Agricultural	10 359,65	94,60	0,91	4,30	1,29	122,03
1	Registered	agricultural	8 400,17	48,37	0,58	4,30	1,29	62,40

1	Registered	Agricultural	5 177,16	111,98	2,16	4,30	1,29	144,45
1	Registered	Agricultural	6 149,33	214,74	3,49	4,30	1,29	277,02
1	Registered	Agricultural	10 539,02	9,99	0,09	4,30	1,29	12,88
1	Registered	Agricultural	8 861,25	150,29	1,70	4,30	1,29	193,88
1	Registered	agricultural	7 997,46	278,32	3,48	4,30	1,29	359,04
1	Registered	Agricultural	12 612,39	1,31	0,01	4,30	1,29	1,69
1	Registered	agricultural	5 098,76	101,63	1,99	4,30	1,29	131,11
1	Registered	agricultural	5 566,27	19,57	0,35	4,30	1,29	25,25
1	Registered	agricultural	3 381,85	15,53	0,46	4,30	1,29	20,04
1	Registered	agricultural	5 028,38	260,80	5,19	4,30	1,29	336,44
1	Registered	Agricultural	7 181,40	0,93	0,01	4,30	1,29	1,20
1	Registered	Agricultural	2 916,96	14,82	0,51	4,30	1,29	19,12
1	Registered	Agricultural	1 871,22	181,53	9,70	4,30	1,29	234,18
1	Registered	Agricultural	5 028,38	0,94	0,02	4,30	1,29	1,22
1	Registered	agricultural	3 018,83	205,49	6,81	4,30	1,29	265,08
1	Registered	Agricultural	6 406,84	403,53	6,30	4,30	1,29	520,56
1	Registered	Agricultural	8 041,73	94,47	1,17	4,30	1,29	121,86
1	Registered	Agricultural	4 114,04	147,61	3,59	4,30	1,29	190,41
1	Registered	Agricultural	6 583,53	148,13	2,25	4,30	1,29	191,09
1	Registered	agricultural	10 198,30	313,95	3,08	4,30	1,29	405,00
1	Registered	Agricultural	12 601,30	97,43	0,77	4,30	1,29	125,68
1	Registered	agricultural	4 999,77	47,38	0,95	4,30	1,29	61,13
1	Registered	agricultural	6 760,99	13,71	0,20	4,30	1,29	17,68
1	Registered	agricultural	8 309,60	3,77	0,05	4,30	1,29	4,87
1	Registered	agricultural	1 594,50	18,17	1,14	4,30	1,29	23,44
1	Registered	agricultural	7 977,86	278,23	3,49	4,30	1,29	358,92
1	Registered	Agricultural	4 408,54	24,21	0,55	4,30	1,29	31,23
1	Registered	Agricultural	12 449,18	347,34	2,79	4,30	1,29	448,07
1	Registered	Agricultural	12 667,67	140,44	1,11	4,30	1,29	181,16
1	Registered	Agricultural	4 795,16	53,73	1,12	4,30	1,29	69,31
1	Registered	Agricultural	4 480,02	390,05	8,71	4,30	1,29	503,17
1	Registered	Agricultural	1 400,01	107,96	7,71	4,30	1,29	139,27
1	Registered	Agricultural	6 001,98	25,21	0,42	4,30	1,29	32,52
1	Registered	Agricultural	2 101,55	27,13	1,29	4,30	1,29	35,00
1	Registered	Agricultural	2 538,34	40,76	1,61	4,30	1,29	52,58
1	Registered	Agricultural	4 799,65	40,11	0,84	4,30	1,29	51,74
1	Registered	agricultural	9 600,20	372,59	3,88	4,30	1,29	480,64
1	Registered	agricultural	3 980,48	1,77	0,04	4,30	1,29	2,28
1	Registered	agricultural	1 385,61	0,49	0,04	4,30	1,29	0,63
1	Registered	agricultural	3 561,80	11,75	0,33	4,30	1,29	15,16
1	Registered	agricultural	2 489,79	71,65	2,88	4,30	1,29	92,43
1	Registered	Agricultural	4 413,08	8,45	0,19	4,30	1,29	10,90
1	Registered	Agricultural	2 282,74	86,93	3,81	4,30	1,29	112,14
1	Registered	agricultural	4 024,51	333,27	8,28	4,30	1,29	429,92
1	Registered	agricultural	8 989,26	117,63	1,31	4,30	1,29	151,74

1	Registered	agricultural	6 360,28	64,06	1,01	4,30	1,29	82,63
1	Registered	agricultural	7 417,96	12,51	0,17	4,30	1,29	16,14
1	Registered	agricultural	2 387,99	28,57	1,20	4,30	1,29	36,86
1	Registered	agricultural	6 980,12	0,44	0,01	4,30	1,29	0,56
1	Registered	Agricultural	4 300,48	22,13	0,51	4,30	1,29	28,55
1	Registered	agricultural	11 083,63	38,38	0,35	4,30	1,29	49,51
1	Registered	agricultural	10 199,19	159,23	1,56	4,30	1,29	205,41
1	Registered	agricultural	4 378,26	30,54	0,70	4,30	1,29	39,40
1	Registered	agricultural	2 996,08	69,49	2,32	4,30	1,29	89,64
1	Registered	agricultural	2 496,14	3,27	0,13	4,30	1,29	4,22
1	Registered	agricultural	9 998,06	3,50	0,04	4,30	1,29	4,52
1	Registered	agricultural	7 456,94	1,50	0,02	4,30	1,29	1,94
1	Registered	Agricultural	11 530,58	107,49	0,93	4,30	1,29	138,67
1	Registered	Agricultural	6 022,98	40,94	0,68	4,30	1,29	52,81
1	Registered	agricultural	5 977,74	31,27	0,52	4,30	1,29	40,34

Annex 12. Land compensation servitude for LCC

Plot quantity	Name of Owner/Owner	Ownership status	The purpose of the plot	Total area of the plot sqm	Affected plot sqm	% impact scale	1 sq.m. Land plot value (GEL)	30% of land value (1 sqm) for	Compensation amount for cut land (GEL)
1	Kakhuri traditional winemaking LLC	Registered	Agricultural	32 267,73	453,31	0,40	4,30	1,29	584,77
1	Chateau Manavi Ltd	Registered	Agricultural	158 145,75	0,31	0,00	4,30	1,29	0,40
1	Kakhuri traditional winemaking LLC	Registered	agricultural	86 783,54	151,68	0,17	4,30	1,29	195,67
1	Kakhuri traditional winemaking LLC	Registered	agricultural	442 031,95	1,41	0,00	4,30	1,29	1,82
1	Chateau Chailuri LLC	Registered	Agricultural	2 415,34	15,01	0,62	4,30	1,29	19,36
1	Chateau Manavi Ltd	Registered	Agricultural	46 816,70	49,53	0,11	4,30	1,29	63,89
1	Kakhuri traditional winemaking LLC	Registered	agricultural	37 300,41	265,08	0,71	4,30	1,29	341,95
1	Chateau Chailuri LLC	Registered	Agricultural	3 540,43	0,11	0,00	4,30	1,29	0,14
1	Chateau Manavi Ltd	Registered	Agricultural	86 119,29	5,70	0,01	4,30	1,29	7,36
1	Chateau Manavi Ltd	Registered	Agricultural	15 462,96	3,50	0,02	4,30	1,29	4,52
1	Kakhuri traditional winemaking LLC	Registered	Agricultural	22 456,26	1,33	0,01	4,30	1,29	1,72
1	Kakhuri traditional winemaking LLC	Registered	Agricultural	20 073,59	6,86	0,03	4,30	1,29	8,85
1	Chateau Chailuri LLC	Registered	agricultural	2 863,31	15,41	0,54	4,30	1,29	19,88
1	Kakhuri traditional winemaking LLC	Registered	Agricultural	22 274,93	0,00	0,00	4,30	1,29	0,00
1	Chateau Manavi Ltd	Registered	Agricultural pasture	236 823,26	2 401,74	1,01	4,30	1,29	3 098,24
1	Kakhuri traditional winemaking LLC	Registered	Agricultural	114 621,73	1 277,55	1,11	4,30	1,29	1 648,04
1	JSC Miso Georgian Credit	Registered	Agricultural	9 502,66	263,89	2,78	4,30	1,29	340,42
1	JSC Miso Georgian Credit	Registered	Agricultural	10 000,10	139,12	1,39	4,30	1,29	179,47
1	Georgian Vineyard Ltd	Registered	Agricultural	61 611,99	488,94	0,79	4,30	1,29	630,73
1	Agro Group Ltd	Registered	Agricultural	134 166,20	246,96	0,18	4,30	1,29	318,57
1	LLC "Sioni-M"	Registered	non-agricultural	2 627,52	53,00	2,02	4,30	1,29	68,37
1	Joint Stock Company "TBS Bank"	Registered	agricultural	3 704,47	75,89	2,05	4,30	1,29	97,90
1	Iberi+ LLC	Registered	Agricultural	6 408,56	66,17	1,03	4,30	1,29	85,36
1	Iberi+ LLC	Registered	Agricultural	3 191,65	29,02	0,91	4,30	1,29	37,44
24	Total			1561210,311	6011,52				7754,86

Annex 13. Tables on crops, structures and trees affected in state lands

These will be compensated to the AHHs- land users using the strip of state lands that are paths between the vineyards adjacent to their land plots.

Crops

Plot quantity	Name of Owner/Owner	Affected plot sqm	Name of the crop	Crop area	Compensation amount for one-year plantings affected by the project (GEL)
1	State	332,1	Corn	324	210,6

210,6

Structures on state lands

Plot quantity	Name of Owner/Owner	Purpose of the building	Total quantity (piece, sqm.)	Compensation amount for auxiliary buildings (GEL)
1	State	Pole (wire)	60(900)	960
1	State	Pole (wire)	23(341)	366
1	State	Pole (wire)	63(950)	1 010,00
3			146/2191	2 336,00

Trees state

Plot quantity	Name of Owner/Owner	Type of plant	Quantity	Age	Compensation amount for perennial plants affected by the project (GEL)
1	State	Vine	211	14	5 303,21
1	State	Plum	40	10	1 934,80
1	State	Apple	1	7	248
1	State	Plum	1	20	96
1	State	Vine	80	21	1 627,84
1	State	Vine	222	17	5 580,99
6			555		14 790,84

1	1	Valeriani Rostiashvili	co-owner	0,09	0,01	4,30	1,29	0,12											0,03
1	1	Giorgi Mchedlishvili	co-owner	77,77	1,41	4,30	1,29	100,33	Vine	44	14	1 106				Pole (wire)	13(187)	205	201,60
1	1	Zurab Mchedlishvili	the owner	78,11	1,34	4,30	1,29	100,76											100,76
1	1	Givi Jachvadze	the owner	36,53	0,91	4,30	1,29	47,13											47,13
1	1	Mamuka Memarnishvili	the owner	98,85	1,36	4,30	1,29	127,51											127,51
1	1	Vano Kirakozashvili	the owner	14,81	0,71	4,30	1,29	19,10											19,10
1	1	Karlo Malasidze	the owner	54,03	1,08	4,30	1,29	69,70											69,70
1	1	Susana Malasidze	the owner	122,39	2,24	4,30	1,29	157,89											157,89
1	1	Giorgi Kevkhishvili	the owner	448,15	1,16	4,30	1,29	578,12					Corn	441,00	286,65				864,77
1	1	Giorgi Saginashvili	co-owner	75,43	0,96	4,30	1,29	97,31											24,33
1	1	Tamila Robakidze	the owner	1 497,91	1,71	4,30	1,29	1 932,31	Vine	839	13	21 088				Pole (wire)	240(3595)	3 838	26 858,32
1	1	Paata Malasidze	co-owner	28,36	0,67	4,30	1,29	36,58											18,29
1	1	Kandari Loladze	the owner	0,14	0,00	4,30	1,29	0,18											0,18
1	1	Nugzar Kevkhishvili	the owner	729,42	1,04	4,30	1,29	940,96					Corn	719,00	467,35				1 408,31
1	1	Giorgi Kirakozashvili	the owner	32,20	0,58	4,30	1,29	41,54											41,54
1	1	Teimuraz Saginashvili	co-owner	63,21	1,30	4,30	1,29	81,54											27,18
1	1	Kukuri Saginashvili	the owner	0,55	0,01	4,30	1,29	0,70											0,70
1	1	Marine Loladze	co-owner	1,57	0,02	4,30	1,29	2,02											1,01
1	1	Natalia Kevlishvili	the owner	109,80	0,73	4,30	1,29	141,64											141,64
1	1	Teimuraz Saginashvili	the owner	77,72	1,32	4,30	1,29	100,26	Vine	44	19	1 106				Pole (wire)	13(187)	205	1 410,98
1	1	Kandari Loladze	the owner	45,40	0,94	4,30	1,29	58,56											58,56
1	1	Vano Kirakozashvili	the owner	10,16	0,47	4,30	1,29	13,10											13,10
1	1	Rusiko Malasidze	co-owner	0,04	0,00	4,30	1,29	0,05											0,03
1	1	Gela Kediladze	co-owner	2,61	0,03	4,30	1,29	3,37											1,69
1	1	Tato Malasidze	co-owner	11,01	0,11	4,30	1,29	14,21											14,21
1	1	Eteri Kirakozashvili	co-owner	18,57	0,58	4,30	1,29	23,96											23,96
1	1	Giorgi Saginashvili	co-owner	52,79	1,03	4,30	1,29	68,10	Vine	30	18	754				Pole (wire)	9(127)	141	481,39

1	1	Soso Papuashvili	the owner	0,05	0,00	4,30	1,29	0,06												0,06
1	1	Geronti Meurmishvili	the owner	0,47	0,02	4,30	1,29	0,61												0,61
1	1	Nunu Khunashvili	the owner	205,22	2,79	4,30	1,29	264,74	Vine	115	23	2 430			Pole (wire)	33(492)	527		3 222,02	
1	1	Gigi Kvlividze	co-owner	3,89	0,05	4,30	1,29	5,02											1,25	
1	1	Alexander Kharebashvili	co-owner	29,50	0,35	4,30	1,29	38,05											12,68	
1	1	Teimuraz Okromchedlishvili	the owner	112,72	1,32	4,30	1,29	145,41											145,41	
1	1	Nanuashvili is a tiger	the owner	183,12	2,92	4,30	1,29	236,23											236,23	
1	1	Giorgi Papuashvili	the owner	46,14	0,84	4,30	1,29	59,52											59,52	
1	1	Vladimir Okromchedlishvili	co-owner	341,85	8,08	4,30	1,29	440,99	Vine	192	17	4 827			Pole (wire)	55(821)	878		1 536,45	
1	1	Gvantsa Movelidze	co-owner	176,59	3,60	4,30	1,29	227,81											56,95	
1	1	Mamuka Okromchedlishvili	the owner	63,49	1,92	4,30	1,29	81,90											81,90	
1	1	Givi Dalakishvili	the owner	23,85	0,99	4,30	1,29	30,77											30,77	
1	1	Giorgi Papuashvili	the owner	32,95	1,02	4,30	1,29	42,50											42,50	
1	1	Avtandili Khunashvili	co-owner	76,58	0,91	4,30	1,29	98,79											49,39	
1	1	Nodari Papuashvili	the owner	50,12	1,02	4,30	1,29	64,65											64,65	
1	1	Marina Kuzanashvili	co-owner	114,66	0,91	4,30	1,29	147,91											49,30	
1	1	Gurami Okromchedlishvili	the owner	52,43	2,48	4,30	1,29	67,63											67,63	
1	1	Paata Gurasidze	co-owner	50,83	0,67	4,30	1,29	65,57											13,11	
1	1	Zauri Okromchedlishvili	the owner	18,16	0,85	4,30	1,29	23,43											23,43	
1	1	Ioseb Tetradze	the owner	0,03	0,00	4,30	1,29	0,04											0,04	
1	1	David Okromchedlishvili	the owner	16,12	0,95	4,30	1,29	20,79											20,79	
1	1	Avtandil Filauri	co-owner	1,31	0,02	4,30	1,29	1,69											0,34	
1	1	Lasha Mirvelashvili	the owner	130,38	1,70	4,30	1,29	168,19	Vine	73	23	1 543			Pole (wire)	21(312)	335		2 045,90	
1	1	Lasha Mirvelashvili	the owner	79,71	1,59	4,30	1,29	102,82											102,82	
1	1	Gurami Kuzanashvili	the owner	251,44	4,44	4,30	1,29	324,36											324,36	
1	1	Zaza Kuzanashvili	the owner	186,54	5,48	4,30	1,29	240,64	Vine	105	14	2 639			Pole (wire)	30(449)	480		3 359,68	
1	1	Zura Okromchedlishvili	the owner	57,01	1,25	4,30	1,29	73,55	Vine	32	20	677			Pole (wire)	9(137)	145		895,47	

Annex 15: Valuation methods, valuation and compensation

1. Land valuation

Land was valued with the replacement cost based on average market value. This method is based on the average sales volume of the land of a similar type, location and characteristics. Based on the average market price, the adjustments were made in the following sequence:

- *Property rights conveyed*
- *Financing terms*
- *Conditions of sale*
- *After-sales costs*
- *Sales dynamics on the market (date of sales)*
- *Location*
- *Physical characteristics*
- *Economic characteristics*
- *Use*
- *Presence of real property*

1.1 Calculation of market prices of land plots using the sales comparison method

Market Method (the sales comparison approach) was used as one of the basic approaches envisaged by the International Valuation Standards (IVS-2013, 9th edition) to identify the value of compensation for the damage inflicted to the land owners.

Approach With the Market Method, the Valuer gives his opinion about the value/price by comparing the comparison properties to the valuation properties.

Procedure In applying the sales comparison approach, a Valuer follows a systematic procedure.

The Valuer will:

- *Research the market ...*
- *Verify the information...*
- *Select relevant units (land plots) of comparison...*
- *Compare the sale properties with the subject property using the elements of comparison...*
- *Reconcile the results into a value indication.... “*

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Elements of comparison *Elements of comparison* are the specific characteristics of properties and transactions that explain the variation of prices. Market analysis identifies which elements are especially sensitive.

Elements of comparison include the comparison of the following elements:

- *Property rights conveyed ...*
- *Financing terms....*
- *Conditions of sale....*
- *Costs to be borne immediately after the purchase...*
- *Market conditions...*
- *Location....*
- *Physical characteristics...*
- *Economic characteristics ...*
- *Use ...*
- *Immovable components of sales...*

So, the market or sales comparative analysis method in evaluation of the price of the valuation object relies on its direct comparison to a similar object sold or put on sale in the near past.

In line with the above-mentioned standard, I accomplished the following consecutive actions to identify the market price of the valuation property by using the market method: gathering and analyzing the market data about the similar to the valuation properties, detailed market survey, obtaining reliable information about the factors influencing the price of the valuation object. The obtained information was re-examined to make oneself sure of its accuracy and essence of motivation beyond all transactions; the relevant unit of comparison was identified and comparative analysis was done; the valuation objects were compared with the selected comparison objects with the purpose of correcting their sales prices or excluding the comparison objects from the list and reduce the corrected indices of the value of the comparison to a single value or put them within the market range. The market value of the valuation objects was identified.

As already mentioned, we used the market or sales comparison method to fix the monetary value of the affected land parcels, implying the comparison of the valuation object to other objects with their market values known (the land parcel in question was sold or bought).

The following types were identified in the private land groups subject to compensation;

Market method was used to fix the monetary value of the affected land parcels. This method implies comparing the valuation object to other objects with their market values known (i.e. the land parcel in question was sold or bought).

The valuation land parcels are located within the administrative borders of villages of Sagarejo Municipality: Kandaure, Chailuri, Badiauri. Most parcels are located 2-4 km from the road and are agricultural/arable and sowing plots;

In order to evaluate the land parcels, the relevant market segment and values under the agreements and contracts concluded for similar real estate must be analyzed what was done on the territories of the above-said villages and their adjacent villages.

With the purpose of fixing the market values in the course of evaluation, we obtained the data about similar properties based on the present market proposals and transaction details provided by the National Agency of Public Registry (the source of information is given in the table) what is given in Table 2.

Table 1.

№	Area (sq.m)	Designation	Address/ location	Transaction/ proposal unit price, Gel	Source of information (ss.ge)
1	2300	Agricultural, arable	Sagarejo, village Chailuri	1.0 sq.m. – 2.79 GEL	Cadaster Code with the National Agency of Public Registry 55.08.60.001.057
2	20 000	Agricultural, arable	Gardabani, village Badiauri	1.0 sq.m. – 3.91 GEL	www. ss.ge. ID : 12236364
3	5330	Agricultural, arable	Sagarejo, village Kandaure	1.0 sq.m. – 5.58 GEL	www ss.ge. ID : 12683364

Table 2. Corrections to the land parcels of the I type to be evaluated located in the impact zone (Gel, unit: 1.00 sq.m.)

N	Elements of comparison	Analog N1	Analog N2	Analog N3
	Area, sq.m.	2300	20000	5330
	Price of 1 sq.m.(GEL)	2.79	3.91	5.58
1	Property rights conveyed	Full	Full	Full
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.79	3.91	5.58
2	Financing terms	Typical	Typical	Typical
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.79	3.91	5.58
3	Conditions of sale	Historical fact	Historical fact	Historical fact
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.79	3.91	5.58
4	Costs to be borne immediately after the purchase	No	No	No
	<i>Correction</i>	0	0	0
	Corrected price	2.79	3.91	5.58
5	Market conditions (time)	July, 2022	July, 2019	July, 2019
	<i>Correction</i>	5%	5%	5%
	Corrected price	2.93	4.11	5.86
6,1	Location	Similar	Similar	Similar
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86
6,2	Access road	Similar	Similar	Similar
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86
7	Physical characteristics			
7,1	Plot area	Average	Average	Big
	<i>Correction</i>	0%	0%	5%
	Corrected price	2.93	4.11	5.86
7,3	Communications	Similar	Similar	Similar
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86
7,4	Restrictions (servitude, etc.)	None	None	None
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86

8	Economic characteristics	Similar	Similar	Similar
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86
9	Immobile sales components	None	None	None
	<i>Correction</i>	0%	0%	0%
	Corrected price	2.93	4.11	5.86

After considering the analogues and studying the data and corrected prices, the value of the unit land was fixed by calculating the mean weighted value.

When agreeing the results of the corrected prices, the analogues being most comparative to the objects to be evaluated and with least corrections were given the highest specific weight.

The market value of the unit land to be evaluated (by using the weighted value) was calculated by us with the following formula:

Where:

Vwa - is the mean weighted value;

Pi – is the corrected price of each analogue;

$\sum R$ – is the sum of the rated weights of the corrected prices of the analogues of comparison;

Ri - is the rated weight of the corrected price of each object of comparison.

Consequently, the calculation of the market value of the object to be evaluated by using the mean weighted value is given in Tables #3.

Table 3. Corrected market prices

Decsription	Pi	Ri	Vi
Price of the corrected analog No. 1	2.93	0.5	0.59
Price of the corrected analog No. 2	3.91	1	1.46
Price of the corrected analog No. 3	5.58	1	2.23
$\sum R$		2.5	
Vwa			4.28
Corrected market value of 1 sq.m. land to be evaluated, Gel (rounded)			4.30

Thus, the market price of 1 sq.m. of agricultural land parcels to purchase along Tokhliauri-Badiauri sections, Sagarejo Municipality, was fixed at 4 GEL, 20 Tetri (4.20 GEL).

2. Valuation of buildings

Buildings are valued at replacement cost based on the direct and indirect market costs needed to build a comparable building, i.e. by considering what the construction of a building with the same parameters would cost today. Depreciation cost is not deductible. The necessary parameters for calculating direct and indirect costs for individual cases are given as follows:

a. Direct costs include:

- (i) Worker's wages
- (ii) Purchasing building materials
- (iii) Preparatory costs
- (iv) Buying/renting equipment
- (v) Builder's profit and overhead expenses
- (vi) Costs of safety measures during the construction / repair works
- (vii) Costs of arranging temporary structures
- (viii) Temporary communications (energy supply, water supply, gas supply and others);
- (ix) Warehouse costs;
- (x) Transportation costs;
- (xi) Other.

b Indirect costs include:

- (i) Cost of professional services;
 - 1. Architect/designer's remuneration
 - 2. Costs of engineering services;
 - 3. Costs of legal services;
 - 4. Valuer's service remuneration;
 - 5. Other.
- (ii) Permit obtaining costs;
- (iii) Insurance costs;
- (iv) Financing %;
- (v) the security required of the contractor (building the new building) for contract performance;
- (vi) Other.

The project-affected area completely covers the agricultural arable and sowing land areas within the boundaries of Manavi, Didi and Patara Chailuri, Kakabeti, Kandaoura and Badiauri villages in Sagarejo Region, with mainly the auxiliary tools used for

viticulture such as vineyard poles, wires are found. and barbed wires, as well as wooden sheds used to have short breaks when working in the vineyard. The value of the affected auxiliary structures and tangible assets is given in the table below.

Table 4. Compensation value of material resources

Name	Material	Height (m)	Diameter (cm)	Price (GEL)
Pole	Steel	2.4	40.0	12.0
Pole	Concrete	2.0 – 2.34	40.0	10.0
Pole	Acacia	2.3-2.42	10.0-12.0	6.0
Building wooden planks, 1cub.m.	Wood		0.3	800.00

Name	Material	length (m)	Diameter (cm)	Price (GEL)
Vineyard wire	Burnt	1404687	2.4	533.65
Barbed wire	Stainless	250	2.5	115.0

3. Compensation for annual crops

This species was evaluated by market price based on the area and the total current market value of the affected crops. Details are given in Table A6. The compensation for the affected annual crops was calculated by lost income method obtained based on the productivity of each species and the current market price of 1 kg of product. The source of statistic of the yield of different annual crops in the project area is the National Statistics Office of Georgia, as well as reference books developed by agro-technicians with the permission of the Ministry of Agriculture of Georgia. Annual productivity, market value and compensation indicators of 1 kg of product are given in table below:

Table 5: Compensation value of annual crops

Crops	Unit	Hectare productivity	Market price of the crops unit, GEL	Compensation value of crops (GEL) per ha	Compensation value of crops (GEL) per sq.m.
Wheat	t	3.5	0.6	2 100	0.21
Barley	t	5	0.65	3 250	0,33
Sunflower	t	2	2.5	5 000	0.5
Maize	kg	10	0.65	6 500	0,65
Watermelon	t	25	0.45	11 250	1.13