STATE AGENCY FOR ENVIRONMENTAL PROTECTION AND FORESTRY UNDER THE GOVERNMENT OF THE KYRGYZ REPUBLIC REPUBLIC

DEPARTMENT OF FOREST ECOSYSTEMS DEVELOPMENT

WB/GEF project "Integrated Management of Forest Ecosystems of the Kyrgyz Republic".

PLAN ENVIRONMENTAL MANAGEMENT

subproject "Creation of a fruit tree plantation on the territory of Aksy leskhoz".

Environmental Management Consultant

JSabirova

AKCS -2019

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Annex 1. List of Banned Pesticides in the Kyrgyz Republic	

Abbreviation

	AAAAil Aimak			
	AOAiyl okmotu			
	ASMAsbestos-containingmaterials			
	WBWorld Bank			
SAEPF Sta	ate Agency for Environmental Protection and Forestry GOST State Standard State Forest Fund			
	StateEnvironmental Expertise State			
Environme	ntal Expertise State Environmental Expertise			
	Housing and communal services KBU			
Containers	of safe destruction			
	ACCC-advisory and coordinationboard			
	EIA-environmentalimpactassessment			
	OOPTNProtected natural areas OPO-			
operationa	Ipolicy			
Project Imp	olementation Unit			
	PIULEProject for integrated forest ecosystem management			
	POOPlan for environmental protection			
	PP/MPP subprojects/microprojects			
	PHCPPprimaryhealth care PRSP			
soil and ve	getation slice			
	Design and			
estimatedo	ocumentation			
	SanPinSanitaryrules and norms			
	SNiPPstroiteInyenorms and rules			
	c/Agricultural			
Municipal	solid waste			
	TU Territorial Administration			
	ESElectricity			
	EE environmental assessment			

INTRODUCTION

The project "Integrated Management of Forest Ecosystems of the Kyrgyz Republic" is aimed at supporting the approach of effective management of forest ecosystems (forest, pastures, infertile or low fertility lands, wood and non-wood forest products, etc.). This work will be carried out through assistance to institutional reforms and capacity building, implementation of integrated management plans of the pilot forest farms with the active participation of the public, beneficiaries.

The executor of the Project is the State Agency for Environmental Protection and Forestry under the Government of the Kyrgyz Republic (Department of Forest Ecosystems Development, the State Institution "Kyrgyz Forestry Management", territorial department of SAEPF, 14 pilot forestry farms).

The goal of the Project is to strengthen the capacity of government agencies and communities to improve the sustainable management of forest ecosystems through investments in management planning, ecosystem restoration, and infrastructure.

To achieve this goal, the project consists of three components: Component I

- Institutional Reform;

Component II - Strategic Investments and Testing Sustainable Management Approaches;

Component III - Project Management, Monitoring and Evaluation.

Project implementation period: April, 2017 - September, 2021.

As part of the project "Integrated Management of Forest Ecosystems of the Kyrgyz Republic" (IWEMP), an overall Environmental Management Plan (EMP) has been prepared. The EMP aims to ensure compliance and requirements of environmental policies and laws of the Government of the Kyrgyz Republic, as well as the policy of the World Bank on environmental security measures.

The purpose of an environmental assessment (EA) is to identify the significant environmental impacts (positive and negative) of a proposed project, identify appropriate preventive and mitigation measures to prevent, minimize, or eliminate any anticipated irreversible impacts.

The EMP serves as a management tool to ensure that environmental impact prevention and mitigation measures are properly implemented, and that recommended measures are monitored and institutionally reinforced during the implementation of the proposed project.

Name of subproject: "Establishment of a fruit tree plantation on the territory of Aksy leskhoz"

Location: Aksy forestry, Renjit forestry 2ha, 85 km. Aksy district of Jalal-Abad region

Brief description of the project: Aksy leskhoz annually plants forests on the territory of the state forest fund about 60-72 hectares. Several factors influence the survival rate of forest crops: climatic, soil and anthropogenic. One of the main and widespread factors of low survival rate is cattle grazing. The total area covered by this subproject will be about 2 hectares.

Fruit tree plantations are a source of income as the demand for Kyrgyz apples in the world is steadily increasing. There is an area of 2 hectares in Aksy leskhoz for implementation of the subproject. To develop this plot for fruit gardens it is proposed to develop this plot gradually, first of all to conduct water. Next, to fence the plot and conduct planning of the plot. The next step is planting apple seedlings and arrangement of drip irrigation. The amount of the project is 1939000 soms.

Forest crops project

More detailed information about afforestation of each plot is reflected in the Project of forestry crops of Aksy pilot leskhoz, developed by the consultant of FFS IULE on silvicultural activities V. Domaev (2019). The project of forest crops for the pilot leskhoz, developed as part of the WB IUE Project was approved by the order of the SAEPF under the PCR dated 10.07.2019. Recommendations on forest planting are given on the basis of the material on forest management (GUKLOU, 2008), taking into account physical, geographical and ecological conditions of the area. Planting method for mountainous areas is manual digging of holes. Mountainous areas are difficult to access and forest planting without the participation of machinery, transport.

Type of project: economic infrastructure and income-generating activities;

Environmental value of the project: forest protection.

Expected results: as a result of the subproject implementation it is planned to create 2 hectares of plantation of fruit trees for apples. According to the specified characteristics, the first harvest from fast-growing fruit trees can be obtained in the 3rd year of growth. It is planned for the third year to receive 20 kg of apples from each tree. Accordingly, you can get up to 80 tons of apples. The implementation of the produced products will significantly increase additional income of the leskhoz and ensure self-financing.

Possible risks: the market.

Expected activities of the project after the completion of funding: as a result of the implementation of the subproject, it will be possible to dramatically increase the income of the leskhoz through the sale of apples. Local workers will be hired to work in the plantation.

Analysis of alternatives: Planting forest crops of common pistachio.

LEGISLATIVE SUPPORT

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- Law of the Kyrgyz Republic "On Environmental Protection".
- Law of the Kyrgyz Republic "On Environmental Expertise".
- Law of the Kyrgyz Republic "General technical regulations to ensure environmental safety in the Kyrgyz Republic.

Law of the Kyrgyz Republic"On

Protecting the Fertility of

Agricultural

Land ". Law of the Kyrgyz Republic "On Management of Agricultural Land".

- Law of the Kyrgyz Republic "On Pastures
- Law of the Kyrgyz Republic "On Mountain Territories of the Kyrgyz Republic.
- The Law of the Kyrgyz Republic "On Specially Protected Natural Areas".
- Law of the Kyrgyz Republic "On Electric Power Industry.
- Law of the Kyrgyz Republic "On Renewable Energy Sources".
- Law of the Kyrgyz Republic "On Chemicalization and Protection of Plants.
- Law of the Kyrgyz Republic "On Fisheries".
- Law of the Kyrgyz Republic "On Wildlife".
- Law of the Kyrgyz Republic "On Protection of Flora" Law of the Kyrgyz Republic "On Associations (Associations) of Water Users.
- Law of the Kyrgyz Republic "On Water" Water Code of the Kyrgyz Republic
- Land Code of the Kyrgyz Republic
- Forest Code of the Kyrgyz Republic
- The Code of the Kyrgyz Republic on Administrative Responsibility Chapter 16 (articles 158-184) regulates responsibility for administrative offenses in the sphere of environmental protection and use of natural resources.
- The Criminal Code of the Kyrgyz Republic Chapter 26 (Articles 265-279) regulates responsibility for environmental crimes.
- Regulations on the procedure of state environmental expertise in the Kyrgyz Republic, approved by the Government of the Kyrgyz Republic on May 7, 2014 N 248.
- Instruction on the procedure of legal, human rights, gender, environmental, anticorruption expertise of draft by-laws of the Kyrgyz Republic, approved by the Government of the Kyrgyz Republic on December 8, 2010 № 319.
- Regulations on the procedure of EIA in the Kyrgyz Republic, approved by the Government of the Kyrgyz Republic on February 13, 2015
 № 60.
- The use of pasture resources for purposes other than grazing, which include, but are not limited to, hunting, beekeeping, collection of medicinal herbs, fruits and berries, preparation of hay and fuel, extraction of common minerals, tourism and recreation of citizens is regulated by the Resolution of the Government of the Kyrgyz Republic dated September 13, 2013 № 515 "On the procedure for granting the right to use pasture resources for other purposes not related to cattle grazing".
- Construction standards and regulations of the Kyrgyz Republic
- SanPiN KR

General information about the facility/site

ORGANIZATIONAL A	ND ADMINISTRATIVE	CONDITIONS		
Project Management Acting Director of the ORP K. Zhantaev		Local party and/or recipient Director of Aksy Forestry P. Zhabaykulov		Date of visit 16.03.2019г.
Supervision of environmental safety measures Z.Sabirova	Oversight of the work of the local contractor D. Naraliev	Supervision of work by the Ecotechnical Inspectorate J. Arstanbekov		Contractor (Name, Name and contacts)
Environmental Specialist of the IULA Environmental Protection Department	Technical Engineer of the PSO IULE	Representative of TU Ecotechnical Inspectorate	J. Aitmamatov Representative of the Department of TU SEE SAEPF at PKR	
Contractor's obligations	 obtaining a permit to begin construction work from the district building and architecture supervision service; Obtaining a permit for quarrying soil (if required); obtaining a permit for the use of ground/surface water, etc; Obtaining permission (contract) from the "Housing and Communal Services" (HCS) to remove, dump construction garbage and asbestos cement waste burial at the district landfill (specify km). Compliance with occupational health and safety rules for employees; participation in the EIA and implementation of the EMP, mitigating measures of negative consequences. 			
PUBLIC CONSULTAT				
Specify where and when the meetings took place in the process public consultation	Available at http://les.ecology.gov. on December 30, 2019. The public hearing was held on January 18-19, 2020 in Aksy LH, AO.			
INSTITUTIONAL CAP	ACITY DEVELOPMEN	Г		
Is[] No or [X] Yes.developmentConducting education (trainings) Specify what kind of trainings are required and what kind of participants are expected (local communities, representatives of contractors, representatives of local authorities, leskhoz, etc.)				

Current activities and history of the site:

The total area of the entire site and the area allocated for subproject/microproject activities?	2 ha
Belonging of the site to the territory of the GLF, AA, AO, city, PA, tenant, private person or others.	State forest fund
Technical passport, certificate of land use right, number, who and when issued (if not required, specify the grounds)	Not required
Type of use of the site and surrounding area and land	Grazing
users	
How was the site used before?	Not used
Who were the previous users of the site?	
Specify the dates, if possible.	

Current status of the facility and associated environmental risks

Related objects	Status	Risks
Building / cordon	no	no
Year of construction		
Building exterior dimensions		
Foundations		
Walls		
Overlap		
Covering the roof		
Visible deformations of		
supporting structures		
Note		
Water supply	The source of water in the form of a well is	Spring
	not functioning well. It is necessary to	drying up
	rehabilitate. It is possible to bring water	will lead to
	from a spring. Need a reservoir for drip	the death
	irrigation.	of the
		seedlings.
Sewage	no	no
Heating	no	no
Electricity	no	no
Availability of ACM	no	no

Licenses and permits

Does the site require licenses or permits to conduct the proposed activity?	Not required
What other government agencies have jurisdiction over the site?	SAEPF, Aksy Forestry

ENVIRONMENTAL MANAGEMENT PLAN Supply of construction materials for design works

The nearest available market for basic building materials. (<i>specify and distance in km</i>)	г. Kerben
Quarry of inert materials (<i>crushed stone, gravel, sand</i>). Specify the distance in km.	5 km

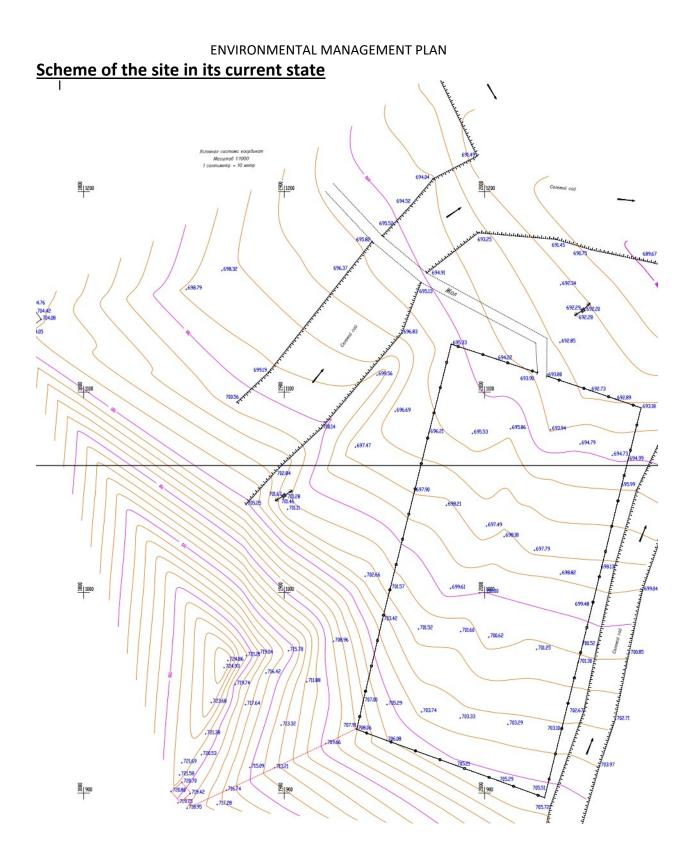
Waste management

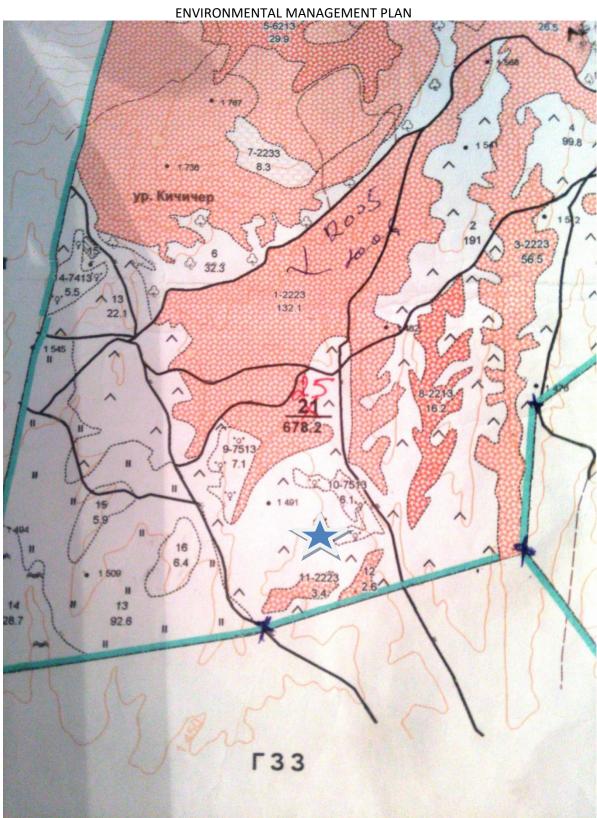
Types and volumes of waste at the moment	no
Expected types and volumes of waste during work performance	is not planned
Current waste management practices	no
Risk and needs assessment	

Socio-environmentalsituation

Problems	Description	Possible
Troblems	Description	environmental risks
The presence of any specific, vulnerable objects in the vicinity of the site (protected areas, cultural monuments, historical sites).	no	no
Are there any other facilities nearby: (<i>with indication of distance</i>) schools, children's Gardens, apartment buildings, medical, health and recreation facilities, industrial enterprises, etc.	no	no
The presence of nearby bodies of water, or on the site.	no	no
Relief of the site (flat, slope, specify slope in degrees).	flat	no
Are there any flooding or landslides on the site? Are there any signs of soil erosion?	no	no
Will the proposed site provide impact on transportation or utility infrastructure?	no	no
Water Resources. Will the project impact the watershed?	Project provision is made to create a water reservoir drip irrigation	no
Will the project affect groundwater and groundwater quality?	no	no
Does the project envisage use of water for any other purposes, needs?	For garden irrigation, drip irrigation	no
Whether a water permit is required (<i>H r: AO, schools, etc.</i>)	Yes	no
Will any wastewater be produced as part of the proposed project?	no	no
Is there a drainage system on the site for surface water or wastewater?	no	no
Availability of a water reserve tank	provided by	no
Water quality control	no	no
Does the project provide for work on the water?	no	no
Soil and vegetation cover . Will there be an ORS, logging green areas of the site during the design work?	no	no
Describe briefly the surface of the earth. What is the purpose of the land (agricultural land, pasture, undeveloped land, etc.)?	Land of the state forest fund category	no
Is there a possibility of damage to the soil by project work?	no	no
The possibility of a significant impact of design work on the landscape?	no	no

Does the project provide for excavation work?	Only when planting seedlings	no
Biological Habitat. Describe briefly the vegetation cover on the the territory of the object, site (condition of the grass cover, dendroflora).	Grass cover is dense, motley grass	no
Whether cutting down green spaces or uprooting dendroflora is not required (specify number)?	no	no
Presence of rare, red-listed, endemic or other valuable plant and animal species on or near the property?	no	no
Presence of migratory bird nests, animal dens, or wildlife routes?	no	no
Air Environment. Does it provide for emissions by the project, as well as noise and other atmospheric pollution?	no	no
Does the project provide for other physical effects (<i>radiation</i> , <i>electricity, heating, etc.</i>) on the environment?	no	no





Photos of the site in its current state (attach several photos from different sides of the outside and inside)





PART 1: MITIGATION PLAN

Environmental component Types of work and examples possible problems and/or impacts	Phase (C, E or O)	Mitigation Measures
When controlling agricultural pests	Э	 Where possible, the following alternatives to pesticides should be considered: a) Use pest-resistant crop species; b) Use mechanical weed control and/or thermal weed control; c) Maintain and use beneficial organisms such as: insects, birds, mites and microbial agents for biological pest control; d) Protect natural enemies of agricultural pests by providing favorable habitat, such as: shrubs for nesting sites and other natural vegetation that can serve as habitat for pest eaters, avoiding the use of a wide range of pesticides; Use mechanical controls such as: manual removal, traps, barriers, lights and sound to kill, relocate and repel agricultural pests.
When handling fertilizers and/or pesticides	Э	 a) Proper storage space/room must be provided: all fertilizer/pesticide storage areas and/or facilities must be suitable and safe; storage areas/premises must be protected from weather conditions and must be able to exclude runoff from other areas; b) Proper storage conditions must be ensured: Do not store near heat sources such as open flames, steam pipes, radiators or other combustible materials; Fertilizer/pesticide stocks should not be stored in contact with the ground; do not store with urea; Do not contaminate fertilizers and pesticides with other substances; In case of fire, fill the area with water; if a screw conveyor is used to move material, ensure that no residue is left in the immediate vicinity and that everything is removed. Dispose of empty bags properly; Store fertilizer/pesticides in minimal quantities and covered to avoid contact with open air; Keep spreaders and air sprays that are left closed overnight; Keep spreaders and air sprays closed between jobs; ensure that the planter, spreader and air sprayer and/or fertilizer box are completely empty at the end of the day;

		• If the planter, spreader and air sprayer and/or fertilizer box cannot be completely empty, fill them to capacity before you leave them overnight;
		 Do not store dry urea with dry nitrate;
		 keep the minimum required amount of fertilizer and soil conditioner for use;
		• Store each fertilizer in a separate storage container and/or position indoors and/or outdoors. Using less harmful (non-persistent)
		pesticides
		c) Proper application of fertilizers/pesticides is necessary
		Do not apply more fertilizer/pesticides than necessary.
		 Ensure proper handling of fertilizers and pesticides in order to avoid contamination of surface runoff and health safety of greenhouse workers (protective clothing, masks, sprayers, etc.). seed quality control will be established
		 If necessary, timely treatment with approved drugs (see Appendix)
		 Water and soil quality will be monitored
		d)Employees must be properly trained and/or instructed before working with fertilizers and other chemicals.
		Managers (contractor, grantee) will develop, implement and monitor the effectiveness of risk management procedures.
General	С	(a) Local inspections that control construction work and environmental safety, as well as local residents, are duly notified of the upcoming
conditions of	Ŭ	project work.
work Alerting,		(b) The local public is properly notified of the work through appropriate publications and/or media reports and/or signs in public areas (including the work site).
instructing		(c) Proper fencing around the construction site has been installed to guarantee the safety of the public and children.
and ensuring the safety of		(d) Obtained all permits required by law (in particular permits for the use of land, natural resources, landfill, permission from the sanitary inspection, etc.) for construction or restoration work on the site.
employees		(e) All work must be carried out in the safest and most disciplined manner possible and be organized so as to minimize the negative effects of the production process on local residents and the natural environment.
		(f) Workers' personal protective equipment must meet international best safety standards (with mandatory wearing of helmets, safety masks where necessary, safety glasses, safety harnesses and safety shoes at all times).
		(g) Adequate signage and information signs must be posted on the site to inform workers of the basic rules and standards for the work to be performed.
		If the Contractor engages visiting personnel for repair and construction work, who will be permanently on site, all necessary living conditions must be provided for them, including rooms for sleeping and eating, showers, toilets, and normal meals.

Impact on	0	Avoid creating new terraces as this causes loss of topsoil, etc.
biodiversity		 Avoid, if possible, cutting down trees and other natural vegetation, etc. If unavoidable, replant valuable species on the site, plant new tree seedlings at the expense of those cut down. Minimize loss of natural vegetation/maximize preservation of vegetation during construction. Where possible, fence off the area for construction to reduce incidental impacts on habitats and biodiversity. Where possible, create (or maintain) green corridors to ensure movement of terrestrial fauna). Avoid introducing non-native species into natural water bodies

PART 2. ENVIRONMENTAL PLAN

	Impact on environme		Exp	enses	Institution Respons	Notes	
Phase	nt	Mitigating Measures	Chiefs	Operatio nal	The initial	Operation al	
Fencing the area of forests crops	General conditio ns of work	 Local inspections, supervisors of construction work and environmental safety, as well as local residents, are duly notified of the impending project work. The local public is properly notified of the work through appropriate publications and/or media reports and/or signs in public areas (including the work site). Proper fencing around the construction site has been installed to guarantee the safety of the public and children. Obtained all permits required by law (in particular permits for the use of land, natural resources, landfill, permission from the sanitary inspection, etc.) for construction or restoration work on the site. All work must be performed in the safest and most disciplined manner possible and must be organized so as to minimize adverse effects of the production process on local residents and the natural environment. Personal protective equipment for workers must meet the international best standards of work safety (with the mandatory wearing of helmets at all times, safety shoes). Adequate signage and information signs must be posted on the site to inform workers of the basic rules and standards for the work to be performed. If the Contractor engages visiting personnel to carry out repair and construction work, who will be permanently on site, all necessary living conditions must be provided for them, including rooms for overnight stays and meals, showers, toilets, as well as normal meals. 		At the expense of te Contract or	Contract or	Contract	
	Effects on biodiversit	 Avoid creating new terraces as this causes loss of topsoil, etc. Avoid, if possible, cutting down trees and other natural vegetation, etc. If unavoidable, replant valuable species on the site, plant new tree seedlings at the expense of those cut down. Minimize loss of natural vegetation/maximize preservation of vegetation during construction. Where possible, fence off the area for construction to reduce incidental impacts on habitats and biodiversity. 					
	y plants	biodiversity.			Contract or	Contract or	

		 Where possible, create (or maintain) green corridors to ensure the movement of terrestrial fauna). Avoid introducing non-native species into natural water bodies 			
Care of forests crops and	At pest control mi	 Where possible, the following alternatives to pesticides should be considered: e) Use pest-resistant crop species; f) Use mechanical weed control and/or thermal weed control; g) Maintain and use beneficial organisms such as: insects, birds, mites and microbial agents for biological pest control; h) Protect natural enemies of agricultural pests by providing favorable habitat, such as: shrubs for nesting sites and other natural vegetation that can serve as habitat for pest eaters, avoiding the use of a wide range of pesticides; Use mechanical controls such as: manual removal, traps, barriers, lights and sound to destroy, relocate and repelling agricultural pests. 			
l			Leskhoz	Leskhoz	
	When working with	 e) Adequate storage space/room must be provided: all fertilizer/pesticide storage areas and/or facilities must be suitable and safe; storage areas/premises must be protected from weather conditions and must be able to exclude runoff from other areas; (f) Proper storage conditions must be provided: Do not store near heat sources such as open flames, steam pipes, radiators or other combustible materials; Fertilizer/pesticide stocks should not be stored in contact with the ground; do not store with urea; Do not contaminate fertilizers and pesticides with other substances; In case of fire, fill the area with water; If a screw conveyor is used to move material, ensure that no residue is left in the immediate vicinity and that everything is removed. 		Leskhoz	
	ertilizer m/petes		Leskhoz		

 Dispose of empty bags properly; Store fertilizer/pesticides in minimal quantities and covered to avoid contact with open air; Keep spreaders and air sprays that are left closed overnight; Keep spreaders and air sprays closed between jobs; ensure that the planter, spreader and air sprayer and/or fertilizer box are completely empty at the end of the day; If the planter, spreader and air sprayer and/or fertilizer box cannot be completely empty, fill them to capacity before you leave them overnight; Do not store dry urea with dry nitrate; keep the minimum required amount of fertilizer and soil conditioner for use; Store each fertilizer in a separate storage container and/or position indoors and/or outdoors. Using less harmful (non-persistent) pesticides is necessary Do not apply more fertilizer/pesticides than necessary. Ensure proper handling of fertilizers and pesticides in order to avoid contamination of surface runoff and health safety of greenhouse workers (protective clothing, masks, sprayers, etc.). seed quality control will be established If necessary, timely treatment with approved drugs (see Appendix) Water and soil quality will be monitored 			
 h) Employees must be properly trained and/or instructed before working with fertilizers and other chemicals. i) Managers (contractor, grantee) will develop, implement and monitor the effectiveness of risk management procedures: j) Managers (contractor, grantee) will develop, implement and monitor the effectiveness of risk management procedures: j) Managers (contractor, grantee) will develop, implement and monitor the effectiveness of risk management procedures: j) Provide proper equipment and materials to clean up the leak. 			

 cover loads when transporting fertilizer; 			
 Ensure that fertilizer deliveries are made at the proper time; 			
 do not accept fertilizer containers that are damaged or leaking; 			
 keep fertilizers covered or sealed. Clean leaks properly; 			
• Ensure that the movement of dust from the storage areas and/or room beyond the perimeter is			
minimized.			
Keep the surface of			
the fertilizer clean to prevent people or vehicles from spreading			
it over the perimeter;			
 sweep and install leaks in a timely and proper manner; 			
 it is necessary to keep a neat storage registry/list; 			
 Store products and mixes separately at all times; 			
 Ensure that storage containers and boxes are clearly labeled; 			
Ensure that storage, loading and mixing tanks and equipment are cleaned of all residues after			
changing from one product to another;			
 Do not store the product in bags that are not properly stamped; 			
 contact between fertilizers, humans and animals should be minimized; 			
 risk assessments should be performed when purchasing, storing, and handling fertilizers; 			
• all persons using fertilizer must follow risk management procedures and adopt safe working			
practices and ensure that direct contact with fertilizer and inhalation of fertilizer dust is minimized;			
 Employees must be provided with LZOs when using fertilizers; 			
• Managers must ensure that appropriate warning signs and/or information are posted/available			
regarding the nature of the hazards and risk controls;			
• All employees are responsible for implementing sound business practices in storage areas and			
maintaining regular maintenance practices for all equipment used;			
• Conduct regular inspections and testing of equipment and infrastructure to establish repair			
requirements;			
fertilizer mixtures must be prepared using the correct raw materials in the correct proportions. All			
products will be loaded onto spreaders, etc. in the correct condition and the correct weight;			
• all relevant records and documentation must be kept and maintained, e.g. training records, risk			
assessments, repair schedules, fertilizer mix registry and recipes, health and safety, etc.			
	1	1	

Grantee/Contractor:Signature:Date:

PART 3 ENVIRONMENTAL MONITORING PLAN

Phase	What perometers should be	Where it will be held	How will be	When will the	Why will the parameter be	Exp	enses	Institutional responsibility	,
	What parameters should be monitored?	parameter monitoring?	is the parameter to be monitored?	monitoring of the parameter?	monitored?	Chiefs	Operatio ns	Initial	Oper ativ e
Source ·	1. environmental screening	At the anticipated projected site	According to the OP on protective measures environmental safety VB 4.01 EA, 4.36 LH et al.	After the selection of the CCS investment project proposals	To determine categories A, B, C. Whether an EIA is required.			PPR IULE	
	2. Design. Design and estimate documentation (DED) is described in detail in paragraph J above.	Reports and finished DDS, prepared by the design company.	An overview of the reports and the finished DCP, State EIA and other permitting licenses, etc.	At the stages of the presented The design company's approval of the design documentatio n and other approvals.	For Ensuring that all necessary requirements are included in the tender documentation.			Project company for the preparation of the design documentatio n and other pents GE	At the exp ens e of The budg et of the proje ct.
	3. Drafting forest crops	At ites 1,2,3,4,5,6, c Frunzensky leskhoz	On the presence of forest crops project	Before Investments	For efficiency and afforestation			PPR IULE	
Constructi on	1.Fencing the area of sites 1,2,3,4,5,6, during construction work on the objects of construction								

		ENVIRONME	NTAL MANAGEMEN	IT PLAN			
2.	Availability of information boards with contact information for local community complaints.	-//-	On the availability of booths	At the beginning and during the construction of the	For Ensuring that the local population is informed	Contractor	Podd er
	3.Proper personal protective equipment for the Contractor's personnel.	-//-	On the availability of personal protective equipment	-//-	For safety precautions	Contractor	

	4.Prohibit the use of ACM and proper disposal, burial of ACM must be accompanied by the relevant certificates and photos	-//-	On the absence of the ACM in the construction. In the case of burial for the presence of acts and photos	During construction and at the end of construction	For to ensure the safety of human health and the protection of the environment environments	Contractor
	5.Preventing soil erosion and wastewater runoff into the adjoining streams and rivers.	-//-	On the absence of traces of erosion and sewage	-//-	To protect environments	Contractor
	6.Proper collection and removal of construction waste.	-11-	For presence/absenc e of construction waste	During and at the end of construction	To protect the environment	Contractor
	7.The Contractor shall have an agreement with the local utility company regarding the dumping of construction debris and ACM burial.	-11-	On the existence of a contract	In the course of construction	To protect the environment	Contractor/P SD Comp.
8.	Prevention of dust formation.	-11-	On the availability of measures to dust prevention	In the course of construction	For life safety	Contractor
	9.Reduction and limitation in time (from 8:00 to 18:00) of noise interference.	-11-	On the absence of complaints from the local residents	In the course of construction	For ensuring the tranquility of the local population and animals, plants.	Contractor
10. EM	Report on the implementation of the P.	For all cordon construction sites	Providing reports on implementati on of the EMP	During construction and at the end of the facility delivery	For minimizing harmful effects OS	Leskhoz, contractor, PPR

Operation	1.Proper removal or disposal of	-//-	On the presence	At the	To protect	Leskhoz	Lesc
-	waste.		of	time of	the		h oz.
			special pits	commissi	environment		
				oning of			
				the facility			
				in			

		For compost and recycling	operation		
2.Conducting instructions, trainings for leskhoz employees	-//-	Photo and video materials on training	After the construction of the	For instruction on facility operation	ORP PIULE, Contractor
3.State acceptance of objects	-//-	Certificate of Acceptance	After the construction of the	For commissioning	ORP PIULE, Contractor, leskhoz
4.Monitoring the survival rate of seedlings.	-//_	On planted seedlings	After turning in operation	To improve the area and increase the forested area in the subsequent.	Leskhoz

Grantee/Contractor:Signature:Date:

Print

Constructionwaste management

(to be determined after the decision, obtaining permits)

Occupational health and safety

In accordance with GOST 1 2.0.004-90, employees undergo introductory, primary workplace, repeated, unscheduled and current briefings, which are one of the types of theoretical and practical training. Introductory briefing is conducted by an engineer for labor protection; primary briefing at the workplace, repeated, unscheduled and current briefing - the direct supervisor of works.

Program of induction training:

1. General information about the company.

2. Legislation on labor protection. Labor protection of women and youth. Procedure for

investigation of accidents at work. Registration of relevant acts. Rules of internal regulations.

- 3. Occupational Health and Safety:
 - 3.1 The main hazardous production factors and causes of accidents. The main methods and technical means of preventing accidents. Characteristic causes of accidents, explosions, fires, cases of Occupational injuries. Requirements for production equipment and production processes in the standards of the System of Occupational
 - Safety Standards (SOSS) and industry regulations. 3.2 Safety, guarding and signaling devices. Colors and safety signs.
 - 3.3 Electrical Safety. Effects of electric current on the human body.

Types of injuries. Conditions that increase the risk of electrocution, prevention of electrical injuries, rules for the operation of electrical equipment.

- 3.4 Safe organization and maintenance of the workplace (checking that the equipment, starting devices, tools and appliances, interlocks, grounding and other protective equipment are in good working order).
- 4. Industrial sanitation: lighting; sound pressure and vibration levels; ventilation.

5. Personal protective equipment: protective clothing and footwear, protective equipment for hands, head, eyes and face, respiratory organs, noise and vibration protection, safety equipment.

6. Fire Safety. The main causes of fires and explosions. Measures to ensure fire safety. The primary actions and means of extinguishing fires. Ways to use available on-site fire-fighting, emergency protection and alarm systems, their location.

7. Intrinsic transport lifting equipment and machinery. Safety requirements for loading and unloading work and transportation of goods.

8. First aid to the injured. The worker who has undergone water instruction, a mark is made in the control sheet or in the logbook of the introductory briefing.

The other types of briefings for the relevant profession are carried out in the workplace in order to teach the employee specific safety measures and rules in the work environment.

Oversight and reporting

The PIU will be responsible for the entire implementation of the EMP. During implementation The PPR subproject will be responsible for oversight to ensure that grantees implement mitigation measures specific to the plan.

The PIU will ensure that project activities are evaluated from an environmental perspective. In this regard, they will be responsible for:

- (a) Coordination of issues related to the environment and environmental assessment (EA);
- (b) monitoring of environmental impacts as part of the overall monitoring of the implementation of grant investments;
- (c) Ensuring compliance with all necessary requirements included in the individual grant investments, i.e., for supporting the proper implementation of the conditions specified in the EIA as part of the implementation of the grant investments.

Specifically, the ORP will be responsible for:

- (a) environmental screening of grant investments;
- (b) conducting an assessment of the acceptability of grant investments from an environmental point of view;
- (c) Providing grant applicants with the necessary information on environmental issues (especially, informing them about the environmental criteria to be used, explaining all obligations regarding the EIA procedure, etc.).
- (d) Determination of project-specific environmental requirements (mitigation measures, monitoring, etc.)
- (e) oversight of environmental mitigation and protection measures envisioned for environmental protection in subprojects/microprojects (PP/MP).

The PIU can coordinate and/or utilize supervision/inspection capacities and results of local environmental authorities responsible by law for environmental protection. The PIU will submit a report every 6 months to the World Bank on the implementation of the EP and the environmental performance and activities of the specific PP/MP.

The actual sub-projects will be implemented by the PIU/grantee or contractors hired by the grantee. The subproject owner must require contractors to comply with all applicable requirements of health and safety related legal provisions; environmental protection, World Bank safeguard policies. Contractors must designate a person responsible for environmental, health and safety issues during construction and operations.

Every 3-6 months, the grantee/contractor will submit a report on the implementation of the EMP.

<u>Grievance</u>

- 1. Each site during construction work will be equipped with an information board with contact information for representatives of all parties involved (Contractor, Customer, LGBT Institution, local authorities, PIU), where everyone can file a complaint.
- 2. Consideration of proposals, applications and complaints:
 - in the line of Project management:
 - 1) Contractor immediate decision, if not, the complaint goes to the next instance;
 - 2) in the PIULE- a decision within 30 days, if not, the complaint is transferred to the next instance;
 - 3) to the Consultative Coordinating Council (CC), and if not, the complaint is sent to SAEPF for review.
- 3. All complaints are registered in a specially created "Complaints and Answers" Register, indicating the name of the complainant, the essence of the issue, the parties to the dispute or conflict. Complaints without a return address and the name of the complainant will not be considered, except in cases where the subject of the complaint is a procurement procedure.

Supported and unsupported project proposals

Project provides funding for microprojects and subprojects in 14 pilot leskhozes and investment projects in 7 municipalities of LGB in the following areas (in the table).

	Social (collective) infrastructure	Forest protection and reforestation	Economic infrastructure and revenue-generating activities
•	Development of pasture infrastructure (i.e., sources of water supply, infrastructure to provide access to summer grazing, etc.) except for roads; Effective management of forest ecosystems; Construction and repair of forest cordons; Construction/repair of leskhoz offices, if this is part of a major subproject; Construction of additional facilities at the offices of the Forestry, to meet economic needs (for drying and storage of forest products, garages for machinery, demonstration sites, etc.); Organization of recreational and tourist facilities, recreation areas (picnic/camping, garbage cans, signs, places for tourist accommodation, etc.); Fencing of forest areas; Irrigation systems on the territory of LH; Repair, reconstruction and construction of bridges on the	 Forest thinning and selective reforestation of existing forests and plantations; Effective management of municipal forests (including thinning, reforestation, and more active management); Improving seed procurement, seedling production, nursery management and reforestation; Promoting natural regeneration of the forest and pastures; Improvement of rangelands by sowing perennial grass seeds; Reconstruction of low-value plantations; Creation of avalanche-proof, and landslide-proof and other anti-erosion forest plantations; Acquisition of small miniagricultural special equipment aimed at 	 Forest nurseries; Greenhouses; Gardens (intensive, fruit gardens) Fast-growing forest plantations; Investments in value chains - such as logging/timber processing, nut/fruit harvesting and processing, drying facilities, etc. Investment in tourism (including light picnic/camping infrastructure, garbage collection, signage, sites for tourist accommodation, etc.) Beekeeping; Forage production (purchase of seeds or haymaking equipment) Improvement of fodder production and harvesting, pasture agrotechnics Investments aimed at promoting natural regeneration of natural

This

	LH territory;		
	Social (collective)	Forest protection	Economic
	Social (collective) infrastructure	Forest protection	infrastructure and
		Forest protection and reforestation	
			infrastructure and
•	infrastructure	and reforestation	infrastructure and revenue-generating activities
•	Infrastructure Repair, reconstruction and	and reforestation the implementation of the	infrastructure and revenue-generating activities resources (forest,
•	Infrastructure Repair, reconstruction and construction of storage facilities	and reforestation	infrastructure and revenue-generating activities resources (forest, pastures, biodiversity,
•	Infrastructure Repair, reconstruction and	and reforestation the implementation of the	infrastructure and revenue-generating activities resources (forest, pastures, biodiversity, etc.);
•	Infrastructure Repair, reconstruction and construction of storage facilities	and reforestation the implementation of the	infrastructure and revenue-generating activities resources (forest, pastures, biodiversity, etc.); • Repair, reconstruction and
•	Infrastructure Repair, reconstruction and construction of storage facilities	and reforestation the implementation of the	infrastructure and revenue-generating activities resources (forest, pastures, biodiversity, etc.); • Repair, reconstruction and construction of storage
•	Infrastructure Repair, reconstruction and construction of storage facilities	and reforestation the implementation of the	infrastructure and revenue-generating activities resources (forest, pastures, biodiversity, etc.); • Repair, reconstruction and

Under Project restrictions, the following project proposals will not be funded:

- purchase of farm animals;
- purchase of vehicles;
- purchase of used equipment;
- organization of orchards on an area of more than 500 hectares;
- planting of alien trees and shrubs on an area of more than 10 hectares;
- any investments that are not relevant to forestry and community development;
- dam construction;
- activities related to involuntary resettlement;
- any activity that directly or indirectly destroys the soil over an area of more than 200 m2 without restoration;

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- activities that consume large quantities of wood without rehabilitation;
- hazardous substances, pesticides, or
 - hazardous substances, pesticides, or

Production,sale, or use of herbicides;

• tobacco production and processing;

- any activities that contribute to land degradation;
- activities that put pressure on pastures (increasing the number of livestock);
- investments related to the illegal production of drugs or crops and other materials, the production and sale of rare or harmful plant species, the illegal cutting and sale of timber, and the sale of products whose production is detrimental to reforestation or the preservation of rangelands;
- sale of natural products from the CITES application list;
- associated with existing or proposed storage facilities for explosive or hazardous materials;
- Production or sale of hazardous substances that contain, for example, carcinogenic, mutagenic or teratogenic properties, including creosote and chlorinated solvents;
- Any activity involving radioactive materials, chlor-, fluorocarbons (CFCs), polychlorinated biphenyls (PCBs);
- mining and mineral extraction;
- implementation of activities in protected areas and other nationally recognized sensitive areas and wetlands;
- use of agricultural land for non-agricultural purposes;
- support for the development of thermal energy facilities;

List of Banned Pesticides in the Kyrgyz Republic

In accordance with the Decree of the Government of the Kyrgyz Republic, July 27, 2001 № 376 "On measures to protect the environment and public health from the adverse effects of certain hazardous chemicals and pesticides". (as amended by CCPD 06.06.2011 № 289), to protect public health and the environment from the adverse effects of certain hazardous industrial chemicals and pesticide formulations, prevent their illegal trade, and taking into account the provisions of the Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade and the Stockholm Convention on Persistent Organic Pollutants the Government of the Kyrgyz Republic has approved the following list

N≌	Pesticides	C.A.S. Number(s).	The reason for the decision (reason)
1	2,4,5-T	93-76-5	Teratogen, carcinogen, mutagen, contains dibenzodioxin impurities
2	Aldrin	309-00-2	Highly toxic
3	Binapacryl	485-31-4	Highly toxic
4	Captafol	2425-06-1	Highly toxic
5	Chlordane	57-74-9	Sustainability and bioaccumulation in the environment
6	Chlordimeform	6164-98-3	Carcinogen
7	Chlorobenzylate	510-15-6	Highly toxic
8	DDT	50-29-3	Persistent, highly cumulative, carcinogenic
9	Dildrin	60-57-1	Carcinogen
10	Dinoseb and Dinoseb Salts	88-85-7	Highly toxic, pronounced skin resorptive effect
11	1,2-dibromethane	106-93-4	Highly toxic
12	Fluoroacetamide	640-19-7	Highly toxic
13	NSH (mixed isomers)	608-73-1	High toxicity, bioaccumulation
14	Heptachlor	76-44-8	Highly toxic, persistent, carcinogenic
15	Hexachlorobenzene	118-74-1	Highly toxic
16	Lindane	58-89-9	Highly toxic
17	Mercury compounds, including inorganic mercury compounds, alkylmercury compounds, and alkyloxyalkyl and arylated mercury compounds		Highly toxic substances
18	Pentachlorophenol	87-86-5	Dermatoresorptive and irritant effects, poisonings have been described working

Table 1. List of pesticides whose use is banned or severely restricted

	ENVIRONMENTA	L MANAGEMENT PLA	N
19	Monocrotophos (soluble liquid formulations of the substance containing of the active ingredient exceeding 600 g/l)	6923-22-4	Highly toxic, highly hazardous pesticide compound
20	Metamidophos (soluble liquid formulations of the substance containing of the active ingredient exceeding 600 g/l)	10265-92-6	Highly toxic, highly hazardous pesticide compound
21	Fosfamidone (soluble liquid formulations of the substance containing of the active ingredient exceeding 1000 g/l)	13171-21-6 (mixture, E- and Z- isomers) 23783- 98-4 (Z- isomer) 297-99-4 (E isomer)	Highly toxic, highly hazardous pesticide formulations
22	Methyl parathion (emulsifiable concentrates (EC) with 19.5-, 40-, 50-, 60-percent active ingredient content and powder formulations with 1.5-, 2-, and 3-percent active ingredient content)	298-00-0	Sharp skin-corrosive and embryotoxic properties, teratogen, affect reproductive function
23	Parathion (all compositions of this substance - aerosols, sprayable powders (PP), emulsifiable concentrates (EC) - are included, granules (G) and wettable powders (WP), except capsule suspensions (SC))	56-38-2	Highly toxic, highly hazardous pesticide compound
24	Ethylene dichloride	107-06-2	Carcinogen
25	Ethylene Oxide	75-21-8	Highly toxic, carcinogenic
26	Toxafen	8001-35-2	Persistent organic pollutant (POP), active carcinogen
27	Tributyltin compounds, including: tributyltin oxide tributyltin benzoate tributyltin chloride tributyltin fluoride tributyltin linoleate tributyltin methacrylate tributyltin naphthenate	56-35-9 4342-36-3 1461-22-9 1983-10-4 24124-25-2 2155-70-6 85409-17-2	Stoic, bioaccumulation in aquatic organisms
28	Dinitro-ortho-cresol and its salts (ammonium, potassium, and sodium salts)	534-52-1 2980-64-5 5787-96-2 2312-76-7	Highly toxic
29	Sprayable powder formulations containing a combination of: benomyl concentration of 7 percent or more, carbofuran concentration of 10 or more than percent, thiram concentration of 15 percent or more (in combination)	17804-35-2 1763-66-2 137-26-8	Highly toxic, highly hazardous pesticide compound
37	Endrin	72-20-8	POP, highly toxic
38	Mirex	2385-85-5	POP, active carcinogen
39 40	Alpha-hexachlorocyclohexane Beta-hexachlorocyclohexane	319-84-6 319-85-7	POP, highly carcinogenic POP, highly carcinogenic
40	Chlordecone	143-50-0	POP, highly carcinogenic, toxic