



KYRGYZ REPUBLIC
COMMUNITY DEVELOPMENT AND INVESTMENT AGENCY

**SUSTAINABLE RURAL WATER SUPPLY AND SANITATION
DEVELOPMENT PROJECT**

ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

**Rehabilitation of water supply system
Ak-Bulak subproject**

April 2019

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Executive Summary

Environment and Social Management Plan (ESMP) for «Rehabilitation of water supply system of Ak-Bulak subproject» is developed in accordance with the Environmental and Social Management Framework (ESMF) elaborated under Sustainable Rural Water Supply and Sanitation Development Project financed by the International Development Association and the Government of the Kyrgyz Republic.

ESMP includes the procedures and arrangements of providing policy of the World Bank on safeguards and the law of the Kyrgyz Republic on Environmental Protection.

This ESMP provides with information about geographical coverage of the project, number of living people, the state of environment and seismic hazard in the project implementation area as well as location and information about selected facilities and their technical conditions.

The document contains information about decisions taken on holding capital repair works with description of main construction operation.

One of the key chapters of ESMP is the impact of the project on environment and its mitigation measures. In this chapter the ways and methods of decreasing the adverse impact of the project on environment are described. Besides it includes the safety regulations and requirements to be kept in the working with asbestos containing materials which can adversely effect on the health of human being.

Types of impacts on the surrounding and social environment during the construction and operation of buildings are given in the Chapter 4, which describes about the proposed effects and mitigation measures on each environmental and social parameters (soil, water resources, atmospheric air, waste generation, noise effect, safety and health of employees and people etc.) indicating responsible people and organizations. In order to monitor the impact of construction works on the environment and to take appropriate measures Chapter 5 has been developed, which specifies the parameters and methods of monitoring of the state of environment.

ARIS will carry out monitoring using the checklist "Construction Sites Monitoring Checklist" (Annex 1 to ESMP).

Document also describes the following information about:

- the potential impact of the project on the social environment which improves the conditions of workers and population in whole;
- the existing legal framework, regulating the protection and use of natural resources;
- public hearings for population in the implementation of the project;
- Grievance redress mechanisms, Beneficiary Feedback Mechanism.

The requirements indicated in this ESMP are the mandatory for all contractors.

1. INTRODUCTION. DESCRIPTION OF THE PROJECT AREA, WATER SUPPLY SYSTEM.

Introduction

The objective of Sustainable Rural Water Supply and Sanitation Development Project (SRWSSDP)¹ is to improve access and quality of water supply and sanitation services in the Participating Rural Communities; and to strengthen capacity of the Recipient's institutions in the water supply and sanitation sector.

An Environmental and Social Management Framework (ESMF) for the project consistent with Environmental Assessment (OP 4.01) requirements was prepared and found satisfactory by the World Bank. The ESMF public consultations were held on February 11, and June 23, 2016 in Bishkek and February 16, June 24 2016, in Osh –including participants from each target rural community. The final ESMF documents in both Russian and English languages were disclosed in country and on the Bank Infoshop on July 4, 2016 and July 6, 2016 respectively. Each activity to be financed under the project will be reviewed for safeguards risks in line with OP4.01, and must obtain the clearances required by Kyrgyz national regulations.

The ESMF covers procedures and mechanisms that will be triggered by the Project to comply with the World Bank Policy 4.01 Environmental Assessment², legislation and normative and legal acts of the Kyrgyz Republic governing preparation and implementation of environmental protection requirements.

The present Environmental and Social Management Plan (ESMP) outlines environmental impacts and mitigation measures related to the rehabilitation of water supply investments in Ak-Bulak subproject.

ESMP activities will be included in bidding and contract documents as integral part of both construction and technical supervision phases.

Description of the project area

Ak-Bulak subproject belongs to Ak-Bulak Aiyl Okmoty of Ak-Suu in Issyk-Kul Oblast. The village is 40 km from the Karakol city.

There are 388 households with total population of 2371 people in the village. The number of cattle is 1057, small cattle – 4371, horses – 620. The following municipal objects are located in the village: secondary school, medical center, kindergarten, clubhouse, administrative building.

According to data of “Karakol” weather-station the climatic characteristics of the region are accepted as follows:

Climatic conditions of the region have the following features: the average air temperature in January in the valley part -8°C

in the mountain part -26°C .

In July, the average monthly air temperature varies from

in the valley $+14^{\circ}\text{C}$

in the mountains $+9^{\circ}\text{C}$.

The minimum of air temperature is -40°C .

The average values of maximal air temperatures vary from

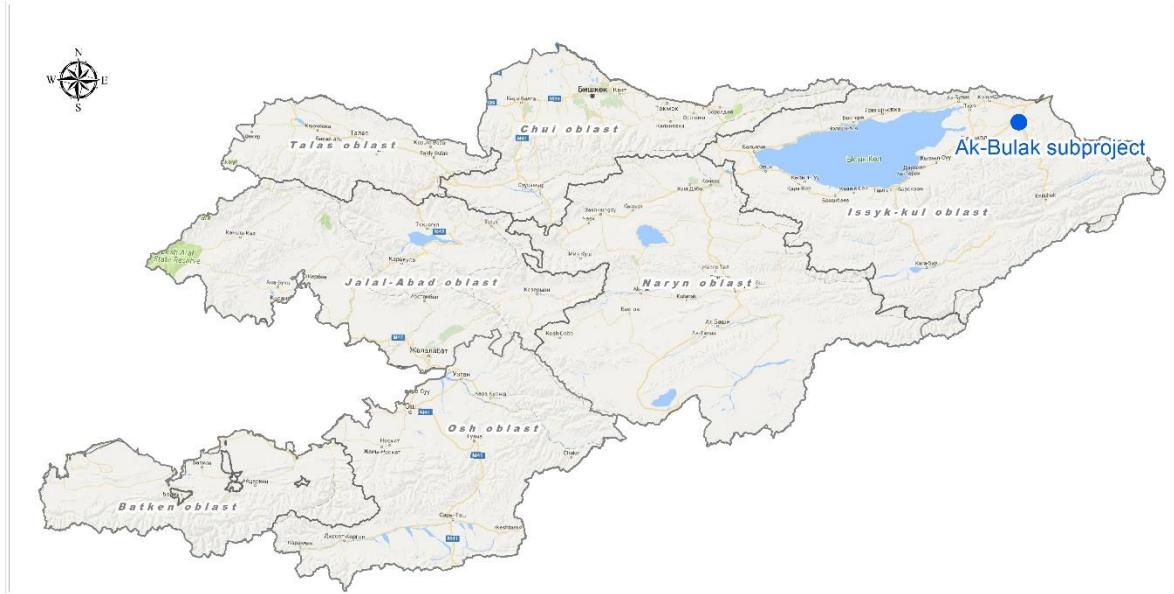
in the valley $+30^{\circ}\text{C}$

in the mountains $+15^{\circ}\text{C}$.

The precipitation amount is

¹ In accordance with the proposal of ARIS and Department of Water Supply and Sanitation (DWSS) the project name was changed from RWSSP-3 (Third Rural water supply and sanitation project) on SRWSSDP (Sustainable Rural Water Supply and Sanitation Development Project)

<i>in the valley part</i>	300-400 mm,
<i>in the mountains</i>	500-600 mm
<i>in the valley during a mild period</i>	150 mm
<i>in the mountains during a cold period</i>	250 mm.
<i>The snow depth in the valley part reaches</i>	40 cm.
<i>The utmost wind speed possible once in 20 years</i>	34 m/s.
<i>Seismicity of the region</i>	9 points

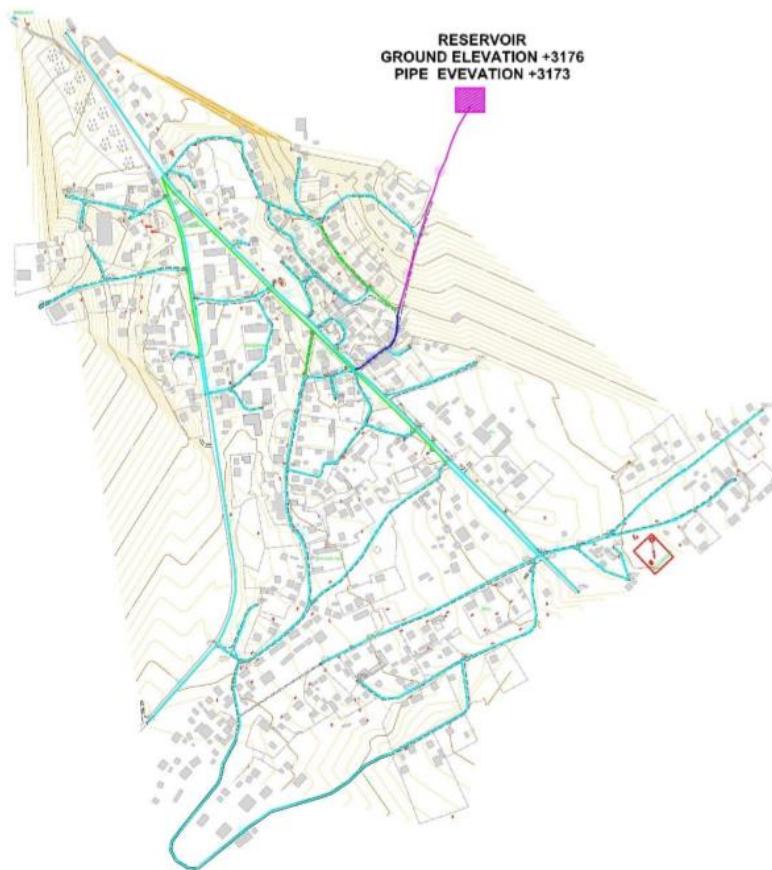


Water supply system

In the southwestern part of Ak-Bulak village, in 1990 the Issyk-Kul Complex Hydrogeological Expedition has drilled a well #8233 (19073Д) to provide water supply of Ak-Bulak Village Council. According to the registration card, the depth of the well is 150m. The well's diameter is 168mm. At present time, the well is not functioning (it is clogged). The distribution network was not built. Taking that the well diameter comprises 168mm, the well could have been equipped for an ETSV-6 pump (ЭЦВ-6). However, the carried out hydraulic calculation of consumption by the population has shown that the water flow providing by this type of the pump would not satisfy the population needs.

Today, only the high school has a water supply system. There is no proper water supply system in the village.

Scheme of planned water supply system.





2. SCOPE OF WORKS AND IDENTIFICATION OF ASSOCIATED ENVIRONMENTAL AND SOCIAL IMPACTS

Planned activities in Ak-Bulak village:

1. Drilling the 1st well with 150 m depth.
2. Installation of pumps with frequency converter.
3. Construction of one reservoir, capacity $V = 1000\text{m}^3$ and an access road.
4. Assembling the bactericidal installation.
5. Construction of fencing at sites of water intake and reservoir.
6. Construction of a pressure water main from the water intake site to reservoirs, $L = 1.74 \text{ km}$ (steel pipe, $\varnothing 159 \times 6 \text{mm}$)
7. Construction of a distribution network, $L = 16161$ running meter
8. Installation of power lines $L = 1,726 \text{ km}$.

The estimated period of construction and rehabilitation works is 18 months. The defects liability period is 12 months.

Ak-Bulak subproject will not finance any activity with significant or irreversible environmental impacts, and therefore has triggered OP 4.01 with classification as Environmental Category "B."

Handling of asbestos-containing materials (ACM).

Visits to the Ak-Bulak sub-project site showed that the existing water distribution network is made of asbestos cement (AC) pipes. During water system rehabilitation, existing asbestos cement pipes will not be removed. Every effort will be made to leave the old pipes in the ground. New pipelines will be installed parallel to the existing ones. In the event of removal of asbestos cement pipes asbestos contained materials waste will be collected, transported and finally disposed by applying special protective measures in accordance with the hazardous waste handling standards. See Section 6 for detailed information on disposal of asbestos-containing materials.

Environmental oversight

During activities implementation, safeguard specialist of ARIS will have overall supervision responsibility for ensuring that the measures indicated in the ESMP are being properly performed. Safeguard specialist and engineers of ARIS in collaboration with the local authorities and the Kyrgyz Forestry and Environment Preservation Agency will perform the activity's environmental monitoring during both construction and operation phases.

The subproject will not finance Category-A activities, will not support activities that target natural habitats or protected sites, and will not finance those activities that can cause a significant loss or degradation of any significant natural habitat.

SOCIAL RISKS AND IMPACT MITIGATION

Social screening and mitigation

During the social screening, the main risks were identified:

- possible industrial injuries of the local population and workers;
- community dissatisfaction regarding the suspension of utility services;
- involvement of women in the project;
- problems with connections to the water supply network of the poor;
- potential social resistance to tariff increase
- limited capacities of local authorities
- actual delay in implementation
- change in behavior and practice of water consumption

Section 4 describes social impact minimization measures, institutional responsibility and monitoring.

There are no significant social risks in this subproject. The activities planned under this subproject will have more positive social consequences.

An integral part of the strategy is to inform and take into account the views of communities and persons affected by the project. Thus, one of the main tools to prevent social risks / conflicts is the Beneficiary Feedback Mechanism, through which information is exchanged, is taken into account the views of communities at all stages of the project.

Below full information on BFM is provided.

Demographic data. The ssummative demographic data is as following: target population is 2371 people, including 1221 men and 1150 women. The total number of households is 388. The main business activities are farming, agriculture. Women in the village are housewives mostly. Ethnic composition: 100% are Kyrgyz. The risk of interethnic conflict is excluded.

In addition to information-provision, ARIS will collaborate with the Ayil Okmotu and the local community organizations dispute resolution set-ups such as court of aksakals overseen by the AO. The subproject will not impact cultural or national heritage monuments.

Involuntary Resettlement. Land allotment and resettlement issues are covered by the World Bank OP 4.12 Involuntary Resettlement. As for involuntary resettlement, no significant impacts that could require land allotment, economic displacement or physical resettlement have been identified.

Resettlement policy framework (RPF) was prepared for the project. The RPF public consultations were held on including participants from each target rural community. The RPF provides guidance on the preparation of resettlement action plans (RAPs) during project implementation. The final document is published

on ARIS

site

http://www.aris.kg/ru/proekty_aris/realizuemye_proekty/proekt_ustoichivogo_razvitiya_selskogo_vodosnabzhenija_i_sanitarii/politika_pereselenija

The Resettlement Policy Framework (RPF) provides guidelines for development of appropriate mitigation measures, including compensations for mitigation and reparation of the damages due to impacts of land acquisition and resettlement, caused by future project activities.

RPFs are applicable to all RWSSDP sub-projects, which may have impacts in the form of:

- Resettlement or loss of shelter;
- Loss of assets or access to them;

- Loss of income sources or means of subsistence, regardless of the fact, whether people affected by the project impact (PAPs) are forced to resettle.

In case of allotment of land, relocation or damage to the assets of the population, a Resettlement Action Plan will be prepared guided by the RPF. Section 3.2 of RPF describes eligibility criteria and right to compensation.

INSTITUTIONAL RESPONSIBILITY

№	Responsible Party	Activities
1	Ministry of Finance	In case of lack of replacement land, the Ministry of Finances will pay compensation for land and assets of PAPs as stipulated in the RAP.
2	Municipalities of subprojects	Inform of stakeholders. Fulfill the provisions of agreement. Render of assistance during public consultations. Grievance redress in the course of RPF/RAP implementation.
3	Safeguards Specialist/Consultant	<ul style="list-style-type: none"> • Consultations with PAPs • Identification of PAPs, examination of documents of entitlement and list of affected assets • Preparation of RPF and RAPs allowing for the fact that all expenses for acquisition of land and resettlement will be included in the budgets of the Ministry of Finance • Disclosure of information about RPF and RAP • Implementation of RPF and RAP • Conduction of socio-economic survey of PAP • Monitoring • Submission of information about RPF and RAP to the World Bank • Grievance Management
4	Grievance Redress Mechanism (Beneficiary Feedback Mechanism (BFM))	Obtaining prompt, objective information, evaluating and reviewing appeals (applications, proposals, complaints, requests, positive feedbacks)

No trees owned by the municipality will be cut down until all necessary permits obtained. In the event of cutting municipal trees, there will be compensation in the form of seedlings (the amount for compensation is in the BoQ). The contractor will give seedlings to AO, and they will be planted in the places where the AO points out.

In the event of cutting private trees, the RAP will be prepared according to OP 4.12. If there will be cutting of trees of several owners, it will be possible to prepare a single RAP for subproject. As for the impacts on private properties, no private land will be affected because all water transmission and distribution lines will be installed on municipal land.

Conclusion: some private trees will definitely need to be cut; private lands will not be affected.

Grievance Redress Mechanism (Beneficiary Feedback Mechanism (BFM))

ARIS use an information system for management of appeals, including complaints of citizens – Beneficiary Feedback Mechanism (BFM).

The main objective of the beneficiary feedback mechanism is the process of obtaining prompt, objective information, evaluating and reviewing appeals (applications, proposals, complaints, requests, positive feedbacks), at all stages of CSP implementation that come from citizens / beneficiaries to further improve their work. Strengthen communication with project beneficiaries and provide channels for feedback, and identify and address problems, increasing transparency and accountability.

Dissemination of BFM:

- presentation of information by the BFM specialists to local authorities, AO, deputies of the local kenesh;
- presentation of information at public hearings, trainings conducted by ARIS staff, the BFM team conducts an entire information campaign in the communities;
- banners of BFM are placed on social facilities (schools, kindergartens, FAP);
- there are banners in district administrative buildings;
- there is BFM section on the official site.

All appeals and complaints from citizens received under the SRWSSDP deliversdelivers to the corporate system for further processing and follow-up.

Channels for submitting an appeal.

<p>1. Hotline: +996(550)70-05-22, (calls are received around the clock, the conversation will be recorded);</p> <p>2. WhatsApp: +996(770)70-05-22, (instant messaging system for mobile devices with voice and video support);</p> <p>3. Social networks (Facebook MOC APIC);</p> <p>4. Web-site address: www.aris.kg.</p> <p>5. Verbal or written appeals received during the on-site working meetings;</p> <p>6. Incoming correspondence via courier to ARIS reception;</p> <p>7. Incoming correspondence by e-mail: bfm@aris.kg</p> <p>8. CO ARIS tel.: +996 (312) 301805 (reception)</p> <p>9. CO ARIS address: 102 Bokonbayeva St., Bishkek, Kyrgyz Republic</p>	<p>1. Appeals are recorded in the log of BFM incoming correspondence and are considered if the following information is present:</p> <ul style="list-style-type: none">• Full Name;• address of registration and residence or telephone number;• content of the appeal;• other reference information. <p>1.1 In case if the appeals were received in the absence of any of the above data, it is recorded in the log of incoming correspondence of the BFM and the sender is notified, and the results of the appeal will be published in the media at the local level, on the ARIS website or made public at the session of the AK.</p> <p>2. Appeals are entered into the BFM configuration in the 1C system for analysis and monitoring.</p> <p>3. Appeals may be submitted anonymously. Confidentiality shall be insured in all cases, even if the applicant is known, in order to avoid conflicts of interested parties.</p>
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Receiving an appeal. When receiving an appeal, the following is determined:

- Type of appeal
- Category of appeal
- Persons responsible for review and execution of appeal.
- Deadline for appeal resolving.
- Agreed actions

After the type of treatment is determined, the BFM specialist registers details regarding the treatment in the incoming correspondence journal, and then in the BFM configuration of the 1C system.

The applicant will receive a notification in which the BFM specialist will inform by phone or through other BFM channels:

- Full Name of the executor (project officer) to whom the appeal was forwarded;
- Deadline for execution (minimum 10 days, maximum 30 days from the registration date);

- The deadline and actions are determined in accordance with the ARIS instructions for handling appeals.

Notification. Notification will be registered in the outgoing correspondence log. BFM specialist will assist the applicant at all stages of considering his appeal and ensure that his appeal is properly handled.

In case if the citizen / beneficiary is not satisfied with the decision resulting from the consideration of the appeal, he / she has the right to appeal claim. Appeal claim is considered by the special ARIS Review Committee on consideration of appeals. ARIS Executive Director will form the Review Committee for consideration of appeals from project managers and heads of departments, who will conduct hearings of appeal claims. The Appeals Review Committee will consist of 15-17 persons, of which 2 are BFM members and 2 are persons independent from the project implementation units and the Government of the Kyrgyz Republic.

After review of the appeal, the citizen / beneficiary unsatisfied with the solution received, has the right to appeal the decision in a judicial procedure.

3 ENVIRONMENTAL LEGISLATION

The main normative documents governing the environmental protection activities under Ak-Bulak subproject are³:

- **The Constitution of the Kyrgyz Republic 2010**
- **The Law “On Environmental Protection”⁴**
- **Law on Environmental Expertise⁵**
- **The Law of KR “On General Technical Regulations on Ensuring Ecological Safety in the Kyrgyz Republic”⁶**
- **The Law of KR “On Water”⁷**
- **The Law of the KR “On Interstate Use of Water Bodies, Water Resources and Water Management Facilities in the Kyrgyz Republic”**

Over laws and normative acts on environmental protection can be found at <http://www.nature.gov.kg/lawbase/index.htm>.

³ The documents below are described in the main ESMF document for the Sustainable Rural Water Supply and Sanitation Development Project.

⁴ Dated June 16, 1999 #53 (with amendments and additions dated February 4, 2002 #22; June 11, 2003 # 101; August 11, 2004 # 113; August 6, 2005 # 124; April 27, 2009 # 131).

⁵ Dated June 16, 1999 # 54 (with amendments and additions dated June 11, 2003 # 102; February 26, 2007 # 21)

⁶ Dated May 8, 2009 # 151 (with amendments and additions dated March 6, 2012 # 19)

⁷ Dated January 14, 1994 # 1423- XII

4 ENVIRONMENTAL AND SOCIAL MANAGEMENT/MITIGATION PLAN

Environmental and Social Elements	Impacts and risks	Proposed mitigation measures ⁸	Institutional responsibility for mitigation (Cost of mitigation activities) ⁹	Monitoring
Construction period				
Physical Environment				
Noise	<p><i>During the construction phase</i>, sources of temporary noise will be the engines of construction and road equipment.</p> <p>Noise levels can also increase temporarily along the materials supply routes.</p>	<p>The use of noise protection measures should be provided, and the equipment will be equipped with a silencer. Application of vibrator equipment compliant with standards and vibration- and noise-protection equipment.</p> <p>Equipment will work from 08.00 a.m. to 06.00 p.m. only, no operations will be carried out during night hours.</p> <p>During operations, covers of engines and generators, air compressors and other driving mechanisms should be closed; equipment should be located at the maximum distance from residential premises.</p> <p>Noise levels during the construction phase, considering that day-time operations only are planned, will not exceed the existing sanitary standards on maximum and equivalent noise levels.</p> <p>There will be no sources of noise <i>during the operational phase</i>.</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item</p>	<p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS are responsible for overall oversight.</p>
Water and soil pollution	Pollution of water by using of machinery (fuel shedding), refuse	Use proper agreed placement sites only. Basic proper construction norms and standards applied during the construction period	Criteria / specifications to be incorporated into bidding and contract documents.	Field technical supervision engineer of ARIS is responsible to monitor and supervise the

⁸ Activities requiring financial expenses are to be included in BoQ.

⁹ Cost of mitigation activities is defined by a contractor in relevant items in bidding documents.

	<p>The following types of work will be carried out during the construction phase:</p> <ul style="list-style-type: none"> - earthworks: cut and fill, backfill, levelling; - construction equipment operation; - solid waste generation; 	<p>Daily checks of machinery of leaking of oil; ban to wash machinery at construction site.</p> <p>Topsoil removal for further use during restoration works</p> <p>Landscaping in accordance with the subproject design.</p>	<p>It is not considered as a separate cost item</p>	<p>activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS are responsible for overall oversight.</p>
Air Quality (dust generation)	<p>Dust emissions during retrofitting activities would be minor and temporary.</p> <p>Air pollutant emissions are expected from:</p> <ul style="list-style-type: none"> - motor vehicles; - electric arc welding; - levelling. -drilling 	<p>Dust prevention measures and good housekeeping practices such as water spraying to prevent dust and use of curtains and screening of the construction area.</p> <p>Use of masks, work gloves and clothes by workers.</p> <p>All vehicles delivering dusty construction materials to the site or removing debris will be enclosed and covered to prevent release of dust.</p> <p>Limitation of the speed of vehicles and selection of relevant transportation routes for minimization of impact on the receptors sensitive to dust.</p> <p>Equipping the machinery transporting granular materials with removable canvas covers. Supply of cement to construction sites in pre-pack hermetic packages.</p> <p>The equipment will be used in certain operations only and will not be present at the construction site all the time.</p> <p>Operation of vehicles with defective fuel system exceeding the norms of toxicity of exhausted gases is not allowed.</p> <p>Burning of construction and domestic waste at working area is prohibited.</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>Irrigation of dirt roads with water (wet dust suppression of in-site roads and sites) is considered as a separate cost item in bill of quantities.</p>	<p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS are responsible for overall oversight.</p>

		<p>It is needed to ensure cleanliness of adjacent area, not allowing construction waste to minimize dusting and contamination.</p> <p>All emissions will be temporary and short in duration. It should be noted that construction of facilities will not be simultaneous, but will be carried out consecutively on a step-by-step basis—one facility after another.</p> <p>Therefore, air pollutant emissions during the construction phase will not exceed the existing standards.</p> <p>No pollutant emissions will take place <i>during the operational phase</i>.</p>		
Water resources	<p>Borehole drilling works</p> <p>Surface sewage disturbance</p> <p>Pollution of groundwater</p> <p>Soil Fill</p>	<p>During the construction period, there will no impacts on surface water sources.</p> <p>Refuse from excavations beside groundwater occurrence.</p> <p>Working areas with machinery, cement mixers, and fuel tanks are located beyond water protection zones. During the construction phase, no wastewater will be discharged to the water stream.</p> <p>During the operational phase, there will be no impact on surface waters.</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item.</p>	<p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks. Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS are responsible for overall oversight.</p>
Construction waste	Contamination of adjacent area, soil, water resources	<p>Separation of all types of waste streams, reuse and recycling wherever possible</p> <p>Disposal of wastes that cannot be reused or recycled, transport and disposal of wastes at designated landfill site and in cooperation with the local waste management company; no open burning</p> <p>Mineral waste from construction and dismantling works should be separated from common waste and organic, liquid and chemical waste through sorting and keeping in special containers.</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item</p>	<p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS</p>

		<p>All documents on waste removal and disposal should be maintained properly as a proof of appropriate management of waste at the site.</p> <p>As for domestic waste, installation of collection tanks and timely removal of waste should be arranged by local SES agencies.</p>		are responsible for overall oversight.
Construction hazardous waste	Some construction debris may contain asbestos	<p>Detailed impact mitigation measures are discussed in Section 6.</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item</p> <p>Contractor shall develop site-specific measures where requirements to ACM and asbestos waste will be contained.</p>	<p>The contractor needs to train their workers on how to assess presence of asbestos containing materials and to establish a procedure of its safe removal using proper protection equipment, storage without breaking in air-tight containers and management by an authorized agency or company.</p> <p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks. Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS are responsible for overall oversight.</p>
Occupational Health and Safety	Industrial accidents	<p>All works will be carried out through safe and discipline methods to minimize negative impact from industrial process on population and environment.</p> <p>Individual protective means should meet safety standards (obligatory application of helmets, protective face masks, when needed, protective glasses, safety belts and boots).</p>	<p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item</p>	<p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks. Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS</p>

		<p>The contractor should provide workers by:</p> <ul style="list-style-type: none"> drinking water during working hours; portable bio-toilet (for brigade of more than 8 people); medical first-aid kits for each construction site; noiseless earplugs. <p>Compliance with all fire safety requirements in accordance with the Law of the KR dated June 7, 2016 № 78 “On fire safety”.</p> <p>Appliance of properly functioning equipment.</p> <p>Compliance with the approved labor safety instructions.</p> <p>Sites will be provided with proper information boards and signs informing the workers about the rules and norms of works to be followed.</p>		are responsible for overall oversight.
Chance findings	Damage and degradation of site structures	In case of chance finds or other significant discoveries during excavation works stop all construction works and inform relevant authorities prior to proceeding		Contractor and Site Supervision Engineer.
Setting up of construction site and removal of site upon completion of works	Possible disturbances decommissioning	<p>Plan to decrease disturbance to surroundings and neighbors (including plans to ensure proper traffic management on access roads to site)</p> <p>Fencing off the site or access to site with proper safety signs</p> <p>After completion of works, site will be restored to previous conditions and all wastes will be cleared in line with the provisions of this ESMP, all machinery will also be removed from site.</p>	<p>Negligible costs</p> <p>Contractor costs</p>	<p>Will be further defined with specifications in the design documents</p> <p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS</p>

				are responsible for overall oversight.
Tree and shrub removal during pipeline installation	<p>Trees and shrubs will be cut down or trimmed along the pipeline routes only after all necessary permits from local environmental agencies are obtained, in coordination with local authorities and with due regard to compensatory planting. All permits will be obtained before the start of construction.</p> <p>In the event of cutting municipal trees, there will be compensation in the form of seedlings (the amount for compensation is in the BoQ). The contractor will give seedlings to AO, and they will be planted in the places where the AO points out.</p> <p>In the event of cutting private trees, the RAP will be prepared according to OP 4.12. If there will be cutting of trees of several owners, it will be possible to prepare a single RAP for subproject.</p>	Costs are included in EBOQ (Environmental Bill of Quantities)	Contractor	
Topsoil removal	Topsoil removal, transportation, stockpiling and storage at designated location for further use in rehabilitation of disturbed lands.	Costs are included in EBOQ (Environmental Bill of Quantities)	Contractor	
General issues	<p>Regular inspections</p> <p>Trainings for staff (workers), safety trainings, other trainings</p> <p>WB safeguards trainings for local authorities, contractors and communities will be continued under SRWSSDP.</p>		Contractor	Local authorities and communities (AO, CDWUU) ARIS
Social aspect				
Safety of population	<p>Industrial accidents</p> <p>Local inspections controlling construction works and environmental safety and local population should be properly notified on forthcoming project works.</p> <p>Local communities will be properly notified on works by means of publications and /or notices in mass media and/or bill boards in public places (and at work sites).</p> <p>All permission required by legislation for use of waste landfill, as well as permissions from sanitary inspection etc. in construction and rehabilitation works at this site, have been obtained.</p> <p>The contractor should:</p>	<p>Contract organizations</p> <p>Criteria / specifications to be incorporated into bidding and contract documents.</p> <p>It is not considered as a separate cost item</p>	<p>ACSD</p> <p>Field technical supervision engineer of ARIS is responsible to monitor and supervise the activities, including monitoring of potential environmental risks.</p> <p>Representative of contractor is responsible to execute the mitigation measure.</p> <p>Safeguard specialist and infrastructure engineer of ARIS</p>	

		<ul style="list-style-type: none"> organize parking of equipment at a safe distance from social facilities (schools, kindergartens, hospitals, etc.); protect dug trenches with warning signal strips; install road signs, safety signs for pedestrians and drivers; provide residents with a sufficient number of safe bridgeheads (through trenches). 		are responsible for overall oversight.
Aesthetics and landscape	Landscape alterations	Use of landscaping methods; minimization (where possible) of major excavations (deep cuts, high fills)	Contractor	Проектный институт ARIS
Land Acquisition and Involuntary Resettlement	Demolition of buildings, resettlement in connection with land withdrawal for construction	Use of procedures outlined in World Bank's OP 4.12 Involuntary Resettlement	<p>The overall coordination of the project will be provided by ARIS which will oversee all resettlement planning and coordinate all issues relating to the compensation. ARIS will collaborate closely with the local self-government bodies: aiyл okmotu and raion state administration bodies.</p> <p>ARIS is responsible for preparation of RAP.</p> <p>The Ministry of Finances will pay compensation for land and assets of PAPs as stipulated in the RAP.</p>	ARIS

Human communities	Suspension of utility services	Timely notification of communities about planned cutoffs; rapid restoration of utility services	Contractor	
	Gender	<p>Equal participation and representation of women throughout the project implementation</p> <p>No less than 30% of meeting/hearing participants will be women.</p> <p>Under the project, it will be suggested to communities that village water committees should be established, with no less than 30% of women included as committee members.</p>	<p>Local government bodies ARIS</p>	ARIS
	Poverty	A subsidy strategy will be developed under the project to connect low-income households to water systems. This strategy will be introduced under each subproject.	<p>Ayil Okmotu (AO)</p> <p>Municipal enterprise on water supply/ CDWUU under ARIs support</p>	ARIS
	Potential social resistance to tariff increase	Social mobilization, awareness raising (welfare activities, community consultations, development and implementation of outreach campaigns). Tariffs will be developed with due regard to the views of communities gathered during public consultations.	<p>Ayil Okmotu (AO)</p> <p>Municipal enterprise on water supply/ CDWUU under ARIs support</p>	ARIS
	Limited capacities of local authorities	The project allows for a range of capacity building activities and technical assistance to local authorities.	ARIS (under Component 3)	ARIS
	Actual delay in implementation	Delays in the implementation of construction work can cause some discontent. In such cases, explanatory work will be conducted with local communities.	<p>Ayil Okmotu (AO)</p> <p>Contractor</p> <p>ARIS</p>	ARIS
Sourcing of labor and implications of any potential labor influx will be closely monitored by the safeguards consultant and ARIS. Civil works contractors will be advised to recruit necessary labor, where feasible, locally. Labor recruited from outside the community where civil works will be done will abide by a 'code of conduct'.				
Operation period				
Proper Operations	Failure of the system, breakdown of equipment.	<p>Ensure use of environmentally acceptable fuels</p> <p>Regular technical maintenance (The defects liability period is 12 months).</p>	Operator of CDWUU, Local authorities (representative of AO)	

	<p>Increasing the discharge of untreated household sewage waters</p> <p>Ensure all attests and certificates have been acquired in particular for fire protection and monitoring of emissions/concentrations in air</p> <p>Ensure proper, efficient use of water resource, and avoid water losses, leakages and abusive consumptions – install, operate and periodically verify the water meters for each water user.</p> <p>Treatment of waste waters</p> <p>Construction of small sanitary facilities in households will be subsidized under Component 2; technical specifications for several options of toilets have been developed.</p> <p>It is planned to construct internal and external sanitary facilities at social objects (schools and kindergartens) under Component 2.</p> <p>Conducting trainings on public awareness about the necessity of using the local treatment facilities is expected.</p>	
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5 MONITORING PLAN

Environmental Monitoring Plan

What parameter is subject to monitoring?	Where will monitoring of parameter be carried out?	How will monitoring of parameter be carried out/type of monitoring equipment	When will monitoring of parameter be carried out-frequency	Monitoring cost ¹⁰ What cost of equipment or expenses of contractor required to conduct monitoring?	Institutional responsibility for monitoring	Date of commencement
Noise from vehicles and equipment	At the construction and disposal site	Portable noise meters	Continuous	Criteria / specifications to be incorporated into bidding and contract documents. It is not considered as a separate cost items)	1. Inspection of construction sites is carried out by ARIS to ensure compliance with ESMP. 2. State inspectors of Architecture and construction supervision department (ACSD) will supervise fulfillment of design solutions in construction and installation works or reconstruction of facilities, quality of construction materials, structures, and participate in commissioning of completed construction facilities. 3. State ACSD carrying out state environmental supervision have a right to supervise in established procedure on presentation of official identification papers in compliance with environmental provisions, normative quality, environmental protection activities in project implementation. NGO, local authorities (AO, CDWUU), CDWUU operator	After taking over of site possession by contractor .
Soil and water pollution	At construction site	Visual	Continuous			
Air (dust generation)	At and near the construction site	Portable measuring devices	Weekly			
Transport (parking in designated areas, car washing)	At and near the construction site	Visual	Continuous			

¹⁰ Activities requiring financial expenses are to be included in BoQ.

Construction waste (waste storage and disposal)	At construction site	In accordance with the plan and observation	In accordance with the plan but at least weekly			
Decommissioning of construction site	At construction site	Visual	In accordance with the plan			
Safety of workers	At construction site	Visual	Continuous			
ARIS will carry out monitoring using the checklist "Construction Sites Monitoring Checklist " (Annex 1 to ESMP).					Safeguard specialist Engineer Field technical supervision engineer	After taking over of site possession by contractor

6 COLLECTION, STORAGE, TRANSPORTATION AND DISPOSAL OF ASBESTOS-CONTAINING WASTES.

Removal of materials that contain asbestos will be carried out in line with the local legislation, including construction standards, work safety issues, air borne emissions of hazardous pollutants and disposal of waste and hazardous waste (in the event that there is no local legislation, the Directive 2003/18/EC of the European Parliament will be used, that amends and supplements Directive of the Council 83/477/EEC on worker protection from workplace asbestos exposure risks: threshold values of airborne dust particles is 0.1 fiber/cm3; also use the Good Practice Note: Asbestos: Health Issues at Workplace and Community; World Bank). Asbestos materials shall be subject to immediate final disposal/burial under special conditions.

According to Order #885 of the Government of the Kyrgyz Republic *On Hazardous Waste Management in the Kyrgyz Republic* of December 28, 2015, asbestos-containing wastes should be disposed as follows.

The hazardous waste management process (waste lifecycle) consists of the following phases: generation, accumulation (collection, temporary storage, stockpiling), transportation, neutralization, recycling, reuse of recycled products, and disposal.

When asbestos is present at a project site, it should be clearly labeled as a hazardous material. Asbestos-containing materials should not be subject to cutting or breaking as this will result in dust generation. In reconstruction, all workers should avoid crushing/damaging asbestos-containing waste, stockpile such waste at designated locations within the construction site and dispose of it properly afterwards to a special location or landfill.

When asbestos-containing waste is subject to temporary on-site storage, they should be properly contained in leak-tight containers and labeled appropriately as a hazardous material. Safety precautions should be taken to prevent any unauthorized removal of such waste from the site.

Collection and temporary storage of waste

Asbestos waste generation should be minimized by using efficient technologies.

All asbestos-containing materials should be handled and disposed by qualified and experienced personnel only. The personnel should wear appropriate protective equipment (safety masks, gloves and overalls).

The amount of waste stored at the designated site must not be greater than permitted by the standards.

Industrial waste collection sites and access ways must not be blocked up.

When handling asbestos waste, the workers should necessarily wear special protective clothing, gloves and respirators. Prior to removing (if required) asbestos from the site, it should be treated with a wetting agent to minimize asbestos dust emission. Removed asbestos should never be reused.

Keeping foreign items, individual or working clothes, or personal protection equipment, or having meals at waste collection sites is not allowed.

During handling operations, workers must comply with applicable handling requirements and general safety rules. All operations should be carried out mechanically, using labor-saving lifting and transport equipment.

Hazardous wastes should be transported to the landfills by properly equipped vehicles, either own or of a specialized third party carrier. The transport vehicles should be constructed and used in a manner that prevents potential incidents, losses and environmental pollution both on the way to the landfill and when transferring waste from one vehicle to another. All activities that involve loading, transportation and unloading of waste at main and auxiliary sites should be mechanized and use leak-tight equipment. Opening hazardous waste containers during transportation is prohibited.

Solid and dusty wastes should be transported in special containers or containers fitted with gripping devices for unloading by truck cranes. Transporting unpacked asbestos in open trucks or on flat wagons is not allowed.

Using hooks and other sharp tools in handling operations is not allowed.

No one except the driver and staff members authorized to escort the waste off site is allowed to be in vehicles transporting hazardous waste. The drivers of vehicles that will transport asbestos waste must be trained in safe transport requirements.

All operations in connection with loading, transport, unloading and disposal of waste must be mechanized. The waste must be transported in a way to prevent transportation losses and environmental impacts.

Disposal of asbestos waste

Asbestos waste must be disposed to landfills for municipal solid waste or unrecycled industrial solid waste.

7 SUPERVISION AND REPORTING

Field technical supervision engineer must be at the site at all times. In addition, safeguard specialist or infrastructure engineer of ARIS visits construction sites at least once a month in order to supervise fulfillment of ESMP during subproject implementation. More visits may be required if any issues are identified. If there are topical environmental issues, ARIS should continue its supervision during facility operation.

After site monitoring visit report of safeguard specialist should be submitted by coordinator of project. In the event of non-compliance with environmental protection measures, a statement specifying the remedial period for contractor should be drawn up. When conducting social and environmental monitoring special attention will be paid to the accidents. In case of identifying any accident it will be included into the report and classified as SEVERE, SERIOUS, and INDICATIVE with description of type and reason of the accident.

«Environmental protection» section will be included in regular Progress Reports prepared by field technical supervision engineer and delivered to ARIS. The section should contain compressed information and briefly describe monitoring activities as well as any arising issues and the ways to address them.

The final responsibility for the implementation of the ESMP remains with the Project Implementation Unit (ARIS), as per the World Bank environmental safeguards, the bidding and contractual documentation will allow for the responsibility of implementing specific mitigation measures to be transferred to the contractor from the PIU.

8 PUBLIC CONSULTATIONS

The ESMP public consultations were held on March 29, 2019 in Ak-Bulak village. Heads of AO, staff of CDWUU, headmen, elderlies, deputies of ayl kenesh and local population took part in public hearings. The total number of participants was 74 people, 15 of them women, that is, 20%. It was observed very active participation of retired women.

The interested parties and the population were provided with information on the technical part of the upcoming subproject, as well the information on the possible social and environmental impacts of the planned construction / rehabilitation of the water supply system.

Information on Beneficiaries Feedback Mechanism was disseminated to all beneficiaries of subproject. ARIS provided information on the scope of Beneficiaries Feedback Mechanism, eligibility criteria for submission of the appeals, procedure of appeal submission (where, when and how), deadlines of response, as well as the privacy principle and the right to submit anonymous appeals.

MINUTES OF PUBLIC HEARINGS

Discussion of Environmental and Social Management Plan at Rehabilitation of Water Supply Network in Ak-Bulak Sub-Project Sustainable Rural water Supply and Sanitation Development Project

Venue: Ak-Bulak Village, Ak-Suu Raion, Issyk-Kul Oblast

Date: March 29, 2019 at 10 a.m.

T.Djakupov, head of Ak-Bulak Ail Okmotu opened the meeting by welcoming the participants and introducing ARIS team that participated in the project preparation.

Korchubai uulu Erlan, project engineer presented design solutions.

M.Kerimbekova, safeguard specialist presented social and environmental safeguard measures envisaged by the project. She described in detail environmental safety and social measures.

Керимбекова М.: The detailed design prepared to date includes section for Environmental Management, which received favorable state environmental expert review. In addition, Environmental and Social Management Plan was developed to mitigate impact.

Question 1: You told about the environmental part of the sub-project stating that you have prepared a document whereby contractors should follow requirements for environment preservation, operational safety and labor protection. Will they follow these documents in reality and what are the mechanism for the contractor to do all this?

Answer: Thank you for your question. ARIS has prepared the document, namely Environmental and Social Management Plan (ESMP), which specifies all obligations of the contractor, institutions responsible for monitoring i.e. ARIS, AO, State Environmental and Technical Inspectorate and State Agency for Environment Preservation and Forestry. The key tool here is ESMP incorporated in the bidding document. It means that a successful bidder shall automatically perform the ESMP bindingly. ARIS will monitor this continuously; site engineers will be present locally and overall supervision of this part of activity will be provided by the safeguard specialist. In case of rough violations or failure to respond to instructions all works will be suspended and payments to the contractor suspended until all violations are rectified.

Question 2: How many wells will be there?

Answer 2: There will be one well.

Question 3: When defining places for installation of chambers it is likely that everyone will want to have a chamber next to his house thus trying to influence the technical decision?

Answer: This is discarded – decisions on places for chamber are based on hydraulic calculations. So, the chambers will be installed the way as set forth in the design.

Question 4: What are the specific works to be completed in our village?

Answer 4: Following works will be completed by stages in your village:

- Drilling 1 well, 150 m deep;
- Installation of pumps with frequency transducers;
- Construction of 1x1000m³ reservoir and access road;
- Installation of bactericidal plant;
- Construction of fence around water intake and reservoir;
- Construction of pressure pipeline from water intake to reservoirs, L= 1,74 km (steel pipes dia. 159x6 mm);
- Construction of distribution network;
- Installation of PWL L=1,726 km.

Question 5: Who will maintain and repair the water supply system when necessary and who will pay?

Answer 5: After the works, there will be 12-month defects liability period during which the construction is liable for the quality of the entire system meaning that during that period it will do the maintenance. Further responsibility then will rest with municipal water utility that will be established with ARIS support as part of the Project Component 3 “Institutional development”. It will have own

staff, office and budget to be formed by collected tariff. MWU will be an operator to maintain the system.

Question 6: What extraction of trees??

Answer: After cutting municipal trees they will be handed over to AO accounts. Trees will only be extracted once all permits are available. The project has allocations for this and compensation will be two saplings for one extracted tree. Place of planting will be determined by AO.

Question 7: We have a school in the village. Will there be any way for addressing its water supply?

Answer 7: Public buildings will be connected to water system at the project cost. In addition, indoor sanitation facilities will be rehabilitated through the Project Component 2 ‘Sanitation development’.

Question 8: How will the quality of works be supervised?

Answer 8: Supervision of works will be provided by both ARIS and government authorities. Project engineer, site engineer and safeguards specialist shall monitor the whole process of works implementation. On the part of the government authorities, monitoring will be conducted by State Environmental and Technical Inspectorate and the State Agency for Environment Preservation and Forestry. The key tool here is ESMP incorporated in the bidding document. It means that a successful.

Question 9: Does the design include preservation of the topsoil during trench excavation?

Answer 9: Indeed, this is envisaged by the design. The budget includes resources for stripping the topsoil, its transportation and piling at the special earth deposit for storage and further utilization as part of land reinstatement works.

Question 10: You’ve prepared the ESMP for civil works in the village. Will there be a similar document for rehabilitation works at schools?

Answer 10: Yes, the EMP checklist will be prepared for “Rehabilitation of indoor school sanitation facilities”, also as part of the bidding document.

THE DECISION TAKEN:

Participants of the public hearing supported the subproject for rehabilitation of water supply system in Ak-Bulak and acknowledged it as a vital one to ensure the uninterrupted supply of clean drinking water to the residents of Ak-Bulak ayl okmotu.

ESMP was approved by the residents the subproject area.

The head of Ak-Bulak okmotu

Dzhakupov T.U

Safeguards Specialist:

Kerimbekova M.

Secretary:

Ryskulov A.

Протокол
Общественных слушаний по обсуждению
Плана управления окружающей и социальной средой при реабилитации системы
водоснабжения в подпроекте Ак-Булак в рамках
Проекта устойчивого развития сельского водоснабжения и санитарии

Место и время проведения: с. Ак-Булак, Ак-Сууйский район, Иссык-Кульская область 29 марта 2019г, 10:00 часов

Джакупов Т. У. – глава айыл окумоту Ак-Булак открыл слушания, поприветствовав приглашенных и представил сотрудников АРИС, участвовавших в подготовке ПУРСВС.

Корчубай у. Э – инженер проекта представил информацию о проектных решениях

Керимбекова М. специалист по мерам безопасности, представила презентацию о мерах социально-экологической безопасности, предусмотренных в проекте. Подробно рассказала об экологической безопасности, социальных мерах защиты.

Керимбекова М.: на данный момент разработана Проектно-сметная документация, в состав которой входит раздел «Охрана окружающей среды (ООС), который получил положительное государственное экологическое заключение. Также был разработан План управления окружающей и социальной средой по снижению на нее воздействия.

Вопрос 1: Вы рассказали про экологическую часть проекта, сказали, что подготовили документ, чтобы подрядные организации соблюдали все требования по Охране окружающей среде, Охране труда и технике безопасности. На самом деле ли они будут выполнять их, и какой механизм, рычаг создан для того чтобы подрядная организация выполняла всё это?

Ответ: Спасибо за вопрос. АРИСом был подготовлен данный документ, а именно План управления окружающей и социальной средой (ПУОСС), где прописаны все обязательства подрядной организации, указаны обязанности органов по мониторингу, то есть АРИС, АО, ГЭТИ, и ГАООСИЛХ КР. Главный рычаг-это включение ПУОСС в состав тендерной документации, то есть победитель, выиграв торги уже автоматически обязан выполнять все требования ПУОСС. Со стороны АРИС будет вестись постоянный мониторинг, на местах ежедневно будет присутствовать инженер по техническому надзору, также специалист по мерам безопасности будет вести общий надзор. В случае грубых нарушений и нереагирования на предписания, работы будут остановлены, также будет задержана оплата подрядной организацией до ликвидации нарушений.

Вопрос 2: Сколько будет скважин?

Ответ 2: Скважина будет одна.

Вопрос 3: При определении мест для колодцев, не получится ли так, что каждый захочет установить его рядом со своим домом и тем самым будет влиять на подобные решения?

Ответ: Такой случай исключен, так как решение по вопросу мест для колодцев принимается исходя из гидравлических расчетов. Колодцы будут располагаться так, как заранее было решено по проекту.

Вопрос 4: Какие конкретно будут проводиться работы в нашем селе?

Ответ 4: В вашем селе поэтапно пройдут следующие работы:

Бурение 1-й скважины глубиной 150 м.

Установка насосов с частотным преобразователем.

Строительство одного резервуара $V=1000\text{m}^3$ и подъездной дороги.

Монтаж бактерицидной установки.

Строительство ограждения на площадках водозабора и резервуара.

Строительство напорного водовода от площадки водозабора до резервуаров L= 1,74 км (сталь. труба Ø159х6мм)
Строительство разводящей сети
Монтаж линий электропередач L=1,726 км.

Вопрос 5: В случае необходимости ремонта системы водоснабжения, кто будет это делать и за чьи средства?

Ответ 5: После строительного периода есть гарантийный период 12 месяцев, в течении которого подрядная организация несет ответственность за качество всей системы, то есть при поломке все будет ремонтировать подрядная организация. Далее за систему будет нести денежную ответственность Муниципальное предприятие по водоснабжения (МПВ), которое будет создано при помощи АРИС в рамках компонента 3 «Институциональное развитие», МПВ будет иметь свой штат, офис и бюджет, который бюджет формироваться за счет сбора тарифов. МПВ будет эксплуатационным предприятием, которое будет обслуживать систему.

Вопрос 6: Что будет с вырубленными деревьями?

Ответ: При вырубке муниципальных деревьев, они будут переданы на баланс Айыл окмоту. Вырубка деревьев на территории муниципалитета будет происходить только при наличии всех разрешительных документов. В проекте специально для таких мероприятий заложены средства и компенсация составит 2 саженца за одно срубленное дерево. Место, где будут высажены деревья укажет администрация Айыл окмоту.

Вопрос 7: В нашем селе есть школа, каким-нибудь образом решится вопрос с ее водообеспечением?

Ответ 7: Подключение социальных объектов к системе водоснабжения будет за счет проекта. Также в школах в рамках 2 Компонента проекта «Развитие санитарии и гигиены» будут реабилитированы внутренние санитарные сооружения.

Вопрос 8: Каким образом будет проводиться контроль качества строительных работ?

Ответ 8: Контроль будет вестись как со стороны АРИС, так и со стороны государственных органов. Инженер проекта, инженер по техническому надзору, специалист по мерам безопасности будут проводить мониторинг всего процесса строительных работ. Со стороны государственных органов мониторинг будет вести Государственная экологическая и техническая инспекция (ГЭТИ) и Государственное агентство по охране окружающей среды и лесного хозяйства при Правительстве Кыргызской Республики (ГАООСиЛХ).

Вопрос 9: Предусмотрено ли по проекту сохранение плодородного слоя почвы при рыхле траншей для водопровода?

Ответ 9: Конечно, данные мероприятия по проекту предусмотрены. В проекте заложены средства для снятия почвенно-растительного слоя, транспортировку и укладку его в кавальеры для хранения в специально отведенных местах с последующим использованием для восстановления нарушенных земель.

Вопрос 10: Для строительных работ внутри села вы подготовили План управления окружающей и социальной средой, а для ремонтных работ в школах тоже будет подобный документ?

Ответ 10: Да, для работ по «Реабилитации внутренних санитарных объектов в школах» также будет подготовлен Чек-лист Плана управления окружающей средой, и он будет находиться в составе тендерной документации.

РЕШИЛИ:

Участники общественных слушаний поддержали проект «Реабилитация системы водоснабжения в селе Ак-Булак», как жизненно важный для бесперебойного обеспечения чистой питьевой водой жителей айыл окмоту. ПУОСС был одобрен жителями подпроекта.

Глава айыл окмоту Ак-Булак



Джакупов Т.У

Специалист по мерам безопасности:

Керимбекова М.

Секретарь:

СПИСОК

участников общественных слушаний по обсуждению
Плана управления окружающей и социальной средой (ПУОСС)
при реабилитации системы водоснабжения в подпроекте Ак-Булак

с.Ак-Булак

29 марта 2019г.

№ п/п	Ф.И.О. участника	Организация/Должность	Подпись
1	Калынбасын Ә.	жогорку калың а/з	Т.Калынбасын
2	Саңыбайко Ә.	соз. ажы а/з	А.Саңыбайко
3	Анисеев Фатирбек	психолог	Ф.Анисеев
4	Мұрзуканғашев Қ.	ұй-қоғыншы	Қ.Мұрзуканғашев
5	Жапашаева Р.	адвокат	Р.Жапашаева
6	Тұңғышев Әді	шарашы	Ә.Тұңғышев
7	Дындибаев Н.	Ремонтчик	Н.Дындибаев
8	Сағынбай Ә.	житейникші	Ә.Сағынбай
9	Көлкішібаев Н.	жеке жеке	Н.Көлкішібаев
10	Сұрауанов А.	Д/И	А.Сұрауанов
11	Әтінбай Ә.	Д/И	Ә.Атінбай
12	Сандыков М.	Д/И	М.Сандыков
13	Дарханов Ә.	Д/И	Ә.Дарханов
14	Мұжанбай Ә.	Д/И	Ә.Мұжанбай
15	Нұрмұхамедов Ә.	Д/И	Ә.Нұрмұхамедов
16	Тұлғатаров		Т.Тұлғатаров
17	Шишиков Болат	Д/И	Б.Шишиков
18	Бекназар у құнғын	Д/И	Б.Бекназар
19	Джанабаев Айбек	жеке жеке	А.Джанабаев
20	Салынғашев Н.		Н.Салынғашев
21	Токтаманбетов Нұр	жеке жеке	Н.Токтаманбетов
22	Сағерберген Ә.Ә.	Д/И	Ә.Сағерберген
23	Сұржанғысова Н.	АРК	Н.Сұржанғысова

№ н/п	Ф.И.О. участника	Организация/Должность	Подпись
24	Артамбергенов Ж	— ПДР тюнингист	Артамбергенов
25	Абдисеитов Ж.	пенсионер	Абдисеитов
26	Кайкысов Ж.	пенсионер	Кайкысов
27	Богомолов Б	пенсионер	Богомолов
28	Шарипов Ж	Чиновник	Шарипов
29	Канышев Ж	Д/Г	Канышев
30	Касимов Улугбек	Д/Г	Касимов
31	Эрсариков Г	Д/Г	Эрсариков
32	Рұспанов Жанис	дружина	Рұспанов
33	Есекеев Акылбек	Д.Г	Есекеев
34	Жасыров Адилжан	Д.Г	Жасыров
35	Бекшатов Сандар	Д.Г	Бекшатов
36.	Чекрабеков Кончакай	Чиновник	Чекрабеков
37.	Момышбеков Мирлан	Д.Г.	Момышбеков
38	Абдикалов Тимашек	Д.Г.	Абдикалов
39	Коринчиков Ринат	Д.Г.	Коринчиков
40	Диабеков, Закир	Д.Г.	Диабеков
41	Шарипов, Канисеек	Д.Г	Шарипов
42	Анаджеков Чынган	Д.Г	Анаджеков
43	Дүрданилов Рахим	Д/Г	Дүрданилов
44	Түркебердиев, Чеди Н.	Тракторист	Түркебердиев
45	Дүсекебеков Жаны	Тракторист	Дүсекебеков
46	Дүспөбеков Асан	Д Г	Дүспөбеков
47	Жиенбеков Нансай	ДГ	Жиенбеков
48	Мешералиев Чаныбек	Д Г	Мешералиев
49	Этисеев Тимашек	Д Г	Этисеев
50	Рынзакулов, Сагиев	Д Г	Рынзакулов
51	Анурданилов Насрат	Д Г	Анурданилов
52	Жиеншукенов Валентин	Д Г	Жиеншукенов
53	Калдуджол, Гаджиев	Д Г	Калдуджол

№ п/п	Ф.И.О. участника	Организация/Должность	Подпись
54	Касиакулов А.	Азот	С.Р.
55	Чиншов А.	Д.2	И.И.
56	Бибешуков З.	Д.2	И.И.
57	Эриков А.	Д.2	И.Р.
58	Садыков Р.	Д.2	И.Сад.
59	Акынзакиров А.	НДК-шахту.	А.Акынзак.
60	Темешев А.	инженер	Т.А.
61	Ошурев С.	Д.2	С.Ошурев
62	Ордакиев Н.	Д.2	Н.Ордакиев
63	Токтосунов Б.б.	Д.2	Б.Токтосунов
64	Сообщенов Н.	Д.7	Н.Сообщенов
65	Сабиров М.А.	Железку Кизел	М.Сабиров
66	Минаков Чучу Н.	Золотод. АК	Н.Минаков
67	Мусаев Байдаран	от. поездов вагонов	Б.Мусаев
68	Назаров Гасан	от. по Куюсса	Г.Назаров
69	Керимбеков М.	шах. по охране ММК	М.Керимбеков
70	Кириллович Чучу З.	инженер АРИС	З.Кириллович
71	Колдаков Абдукадир	инженер АРИС	А.Колдаков
72	Аскарбеков С.Н.	инженер АРИС	С.Аскарбеков
73	Раскулов А.Р.	БСС-7 ЗКОМЕ	А.Р.Раскулов



9 ANNEX 1

Construction Sites Monitoring Checklist				Code: XXXXXX Elaboration/Revision Date: XXXXXXXX Revision n.º: XX
PROJECT: Sustainable Rural Water Supply and Sanitation Development Project (SRWSSDP) SUBPROJECT: CONTRACTOR: INSPECTED BY: DATE:				
1. GENERAL DOCUMENTATION / PLANS				YES NO N/A
1	Environmental and Social Management Plan			
2	Work log			
3	Journal of instructing in labor protection and safety			
2. SUPPORTING CONSTRUCTION SITE				YES NO N/A
4	GENERAL			Perimetral fence clean, preserved, fixed and firm
5				Organization and Cleaning
6				Information boards and signs informing the workers about the rules and norms of works to be followed
7				Access Control
8	SANITARY FACILITIES			Toilet for workers
9				Washbasin workers
10				Shower for workers
11	DRINKING			Drinking water for workers
12	DORMITORIES			Sufficient area available for the number of workers
13				Proper electrical installations
14				Heating runs properly
15				Clean and organized
16	FIRE FIGHTING			Fire Brigade trained and updated
17				Proper storage of flammable materials
18				Fire extinguishers within the expiration date
19	PROVISIONAL ELECTRICAL INSTALLATIONS			Protection against electric discharges from metal containers and equipment
20				Extension cords and sockets in proper conditions
21				Adequate lighting
3. INDIVIDUAL PROTECTION EQUIPMENT				YES NO N/A
22	Uniform			
23	Reflective vest			
24	Safety boots			
25	Rubber boots			
26	Safety glasses			
27	Protective Gloves			
28	Hearing protection (earplugs)			
29	Masks / Respirators			
30	Mask for iron welder			
31	Safety glasses for iron welder			
32	Safety belt			

4. COLLECTIVE PROTECTION EQUIPMENT				YES	NO	N/A	OBSERVATIONS / COMMENTS:
33	Shoring excavations						
34	Footbridges						
35	Slope protection						
36	Ladders						
37	Structural masonry guard						
38	Medical kit						
5. WORKS IN CONFINED AREAS				YES	NO	N/A	OBSERVATIONS / COMMENTS:
39	Specific training for this activity						
40	First Aid Training						
41	Specific Individual Protective Equipment						
6. ACTIVITIES				YES	NO	N/A	OBSERVATIONS / COMMENTS:
42	DEMOLITION	Power lines and buried infrastructure verified					
43		Isolation / signaling / movement of third parties on site					
44		Shoring of neighboring buildings / walls /posts					
45		Interference of buried and aerial networks					
46		Material removed deposited at ideal edge distance					
47	MECHANICAL LOAD MOVEMENT	Isolation / signaling / movement of third parties on site					
48		Sound device					
49	PAVEMENT	Isolation / signaling / movement of third parties on site					
50		Sound device					
51		Workers not involved in the activity at a safe distance					
7. ENVIRONMENTAL AND SOCIAL SAFEGUARDS				YES	NO	N/A	OBSERVATIONS / COMMENTS:
52	AIR QUALITY	Operation of vehicles with defective fuel system exceeding the norms of toxicity of exhausted gases					
53		Speed limit of vehicles and selection of routes for minimization of impact of dust					
54		Machinery transporting granular materials with removable canvas covers					
55		Cement to construction sites in pre-pack hermetic packages					
56		Proper storage and transportation of inflammable and contaminating materials (gas tanks, bitumen materials, paints, solvents, glass, and rockwool)					
57		Dusting during dismantling works and concrete works suppressed by sprinkling					
58		Burning of construction and domestic waste					

59	WATER RESOURCES	Oil products that can spill to underground waters with precipitation				
60		Machinery wash at the site				
61		Daily machinery inspection for oil leakages				
62		Working areas with machinery, cement mixers, and fuel tanks are located beyond water protection zones				
63		Site has measures to prevent bed deposits, including arrangement of hay blocks and/or silt-setting tanks to prevent waste discharge from facilities				
64	SOIL	Cutting and storage of vegetation to save it for further use				
65		Non-operating machinery at the working area				
66		Straits of fuels and lubricants, oily areas				
67	FLORA AND FAUNA	Tree cutting agreed with LSGBs and environmental agencies				
68		Environmental zones of habitat and protected areas marked				
69		Drive and parking of vehicles, operation of machinery closer than 1 m to tree crowns				
70		Placement of materials, equipment near trunks				
71	CONSTRUCTION AND DOMESTIC WASTE	Mineral waste from construction and dismantling works separated from common waste				
72		Organic, liquid and chemical waste are classified and stored in special containers				
73		Records on waste removal and disposal				
74		Asbestos materials are being buried				
75		Domestic waste, collection tanks and removal by local agencies				
76	NOISE	Vibrator equipment compliant with standards and vibration- and noise- protection equipment				
77		Covers of engines and generators, air compressors and other driving mechanisms are closed				
78	SAFETY OF POPULATION	Local communities are notified on works by means of publications and /or notices in mass media and/or bill boards in public places (and at work sites)				
79		Fences				
80		Permission for use of waste landfill				
81		Are all wells closed? If open, are they fenced in?				
82		A sufficient number of transitional bridges for residents				
83	Records of inspections performed by State inspectors of Architecture and construction supervision department					
84	Were there any accidents during the reporting period?			YES	NO	N/A
				OBSERVATIONS / COMMENTS:		

N/A NOT APPLICABLE

GENERAL COMMENTS:

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