

# Environmental Monitoring Report

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# Supplementary to Annual Report (January-December 2020)  
August 2021

## Uzbekistan: Affordable Rural Housing Program under supervision of Khokimiyats (private sector pilot scheme)

This is a supplementary report to the disclosed Annual Safeguards Monitoring Report in March 2021 due to changes in the design and implementation arrangements introduced to ARHP following Presidential Resolution No.5886 dated 28 November 2019.

Prepared by Yokubjon Alimov (Management and Monitoring Unit) for the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan and the Asian Development Bank.

This environment monitoring report is a document of the borrower. The views expressed herein do not necessarily represent those of ADB's Board of Directors, Management, or staff, and may be preliminary in nature.

In preparing any country program or strategy, financing any project, or by making any designation of or reference to a particular territory or geographic area in this document, the Asian Development Bank does not intend to make any judgments as to the legal or other status of any territory or area.

# Environmental Monitoring Report

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# **Annual Safeguard Monitoring Report**

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For FI operations

**Project Number:** 3535-UZB

**Reporting period:** September-December 2020

**Uzbekistan:** Affordable Rural Housing Program under the supervision of Khokimiyats (private sector pilot scheme)

**Financed by** Asian Development Bank

**For:** Ministry of economic development and poverty reduction of the Republic of Uzbekistan

**Prepared by:** ESMS Coordinator Yokubjon Alimov

**Endorsed by:** Management and Monitoring Unit  
**August, 2021**

## ABBREVIATIONS

ADB	-	Asian Development Bank
ARHP	-	Affordable Rural Housing Program
SARHP	-	State Affordable Rural Housing Program
CCRA	-	Climate change risk assessment
DLI	-	Disbursement Linked Indicator
EA	-	Executing Agency
EIA	-	Environmental impact assessment
EMP	-	Environmental Management Plan
ESMS	-	Environmental and Social Management System
IA	-	Implementation Agency
IEE	-	Initial Environmental Examination
MMU	-	Management and Monitoring Unit
MOEDPR	-	Ministry of economic development and poverty reduction
PIAL	-	Prohibited Investment Activities List
QQI	-	Qishloq Qurilish Invest
RBL	-	Result Based Lending
SPS	-	Safeguard Policy Statement
TA	-	Technical Assistance
ZVOS	-	National Environmental Impact Assessment

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## I. INTRODUCTION

### 1.1. Short description of the program

The Government of Uzbekistan has started a State Affordable Rural Housing Program (SARHP) which aims to improve the quality of life in rural areas of Uzbekistan through the rural housing construction, employment generation and private sector development. The SARHP is guided by the goal of the national rural development and improving quality of life in rural areas. The SARHP is a proven government strategy for generating rural employment through housing construction and public-private partnership for social and market infrastructure development. The government provides incentives for small and medium-sized enterprises and promotes the local manufacturing hubs for construction materials.

The government has requested a loan of \$ 500 million from ADB's regular capital resources to finance part of the SARHP during 2017-2021. In this regard, results-based lending (RBL), calculated for 5 years, and was approved by the Board of Directors of ADB on June 1, 2017.

On July 6, 2017, a loan agreement on the basis of ARHP – RBL No.3535-UZB between the Republic of Uzbekistan and ADB was signed in the amount of \$500 million in pursuance of Resolution of the President of the Republic of Uzbekistan No.PP-2812 dated from March 2, 2017.

In recent years, the country has taken consistent measures to improve the living conditions of the population by expanding the scale of construction of affordable residential and apartment buildings, introducing new architectural and technical solutions into the industry. At the same time, further improvement of the housing conditions of the population necessitates the formation and development of a modern market system of mortgage lending for individuals, widespread involvement and full transition to housing construction by private contractors (hereinafter referred to as the **private sector**), as well as strengthening the targeting and transparency of state support to families, who need to improve their living conditions.

In order to further expand the scale of mortgage lending, create conditions for the development of private sectors, introduce new mechanisms to provide support to people in need of better housing conditions, rational use of land resources and intensify the processes of urbanization of settlements. A new procedure is being introduced to provide the population with housing at the expense of mortgage loans based on market principles (hereinafter referred to as the **New Order**).

In this way, residential buildings (multi-storey apartments) in accordance with the new order will be built at the expense of the own financial resources of the construction company (contractors), i.e. purchase of building materials, salaries for employees, etc. After the completion of the construction of a multi-storey building, the construction company offers ready-made apartments to the citizens of the Republic of Uzbekistan on the basis of mortgage lending.

Interested citizens of the Republic of Uzbekistan can obtain mortgage loans through ADB financing for ready-made apartments of their choice, which were built by the Private Sector within the Program.

The ARHP is designed as a results-based program and therefore funds part of the SARHP. The result of the implementation of the program will be an increase in the number of rural families who meet the criteria of social justice, who will receive Affordable Housing, built in accordance with national quality standards. The results of the program are as follows:

- **Output 1.** Allocation subsidy, site selection, and housing construction are in accordance with social equity criteria and national quality standards;
- **Output 2.** Improved policies and systems for rural housing sector, which support institutional strengthening, enhanced sustainability, and improved governance;
- **Output 3.** Strengthened program management and performance monitoring.

According to the Decree of the President of the Republic of Uzbekistan No. UP-5886 dated November 28, 2019 "On additional measures to improve the mechanisms of mortgage lending", where the **CUSTOMERS** are the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions, as well as in the development of tender documentation, tenders and contracts with a contractor (**pilot scheme**).

In addition, a **new procedure** for the allocation of subsidies for citizens of the Republic of Uzbekistan dated March 25, 2020 No. 182 "On approval of the regulation on the procedure for paying subsidies to citizens for the purchase of housing" was approved by a Resolution of the Cabinet of Ministers of the Republic of Uzbekistan.

This Procedure includes families with low incomes and those in need of better housing conditions, women in difficult social situations, young people actively participating in the public life of the country and other groups of the population in need of assistance and improvement of housing conditions through social support and transparency of state support to receive subsidies based on social needs for residential buildings in rural areas within the Program.

The pilot scheme implemented for 2,660 dwelling units under ARHP in 2020 will be excluded as per COM instruction No.05/96-120 of 29 June 2021. The construction of an additional 2,900 apartments under the supervision of "Qishloq Qurilish Invest" EC LLC was stipulated instead.

All the work on environmental monitoring under private sector construction was conducted entirely, the report was prepared and submitted to ADB for publication of the report accordingly.

This annual environmental monitoring report has been consolidated and prepared for the Affordable Rural Housing Program (ARHP), based on the annual environmental monitoring reports submitted to the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions in accordance with their respective ESMS.

## **1.2. Summary of activities and project progress during the previous 12 months**

A specific feature of the financing of the program is the selected financing mechanism - results-based lending (RBL), which provides for financing from ADB based on the results of the relevant indicators / indicators related to disbursements (DLI).

According to the new order (*Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019*) for 2020, the 5<sup>th</sup> regions in the private sector within the framework of the Program were selected as a Pilot scheme.

In 2020 - 2,660 mortgage agreements should be concluded in the private sector, which were distributed as follows between five regional khokimiyats (**pilot scheme**):

- khokimiyat of Bukhara region - 500 preferential mortgage loans;
- khokimiyat of Namangan region - 462 preferential mortgage loans;
- khokimiyat of Samarkand region - 900 preferential mortgage loans;
- khokimiyat of Surkhandarya region - 96 preferential mortgage loans;
- khokimiyat of Ferghana region - 702 preferential mortgage loans.

As of February 1, 2021, construction work is underway on all construction sites. The completion of the construction work of 2,660 apartments under the 2020 program is expected at the end of the third quarter of 2021.

### **1.3. Summary of ESMS implementation of PCBs and the consolidation of PCBs' annual Environmental and Social Performance reports**

During the reporting period, the implementation of the ESMS in the khokimiyats was aimed at conducting environmental and social screening of the proposed areas for compliance with the environmental requirements of ADB and the national environmental legislation, monitoring the implementation of environmental protection measures on the selected areas at the construction and reporting stages. Particular attention was paid to the documentation of environmental indicators in each block.

All National Environmental Impact Assessment (ZVOS) reports were prepared in the format agreed in 2019. The agreed format for the national assessment is consistent with ADB's core requirements for an initial environmental impact assessment report. And at the same time, the proposed format fully complies with the national requirements for environmental reports.

The approved "Environmental Management Plan (EMP)" with the procurement specialists of ADB and MMU, the tabular version was included in the tender documentation and since 2020 is part of contracts with contractors.

A detailed description of the work of the ESMS in each khokimiyat is presented in Chapter 4.

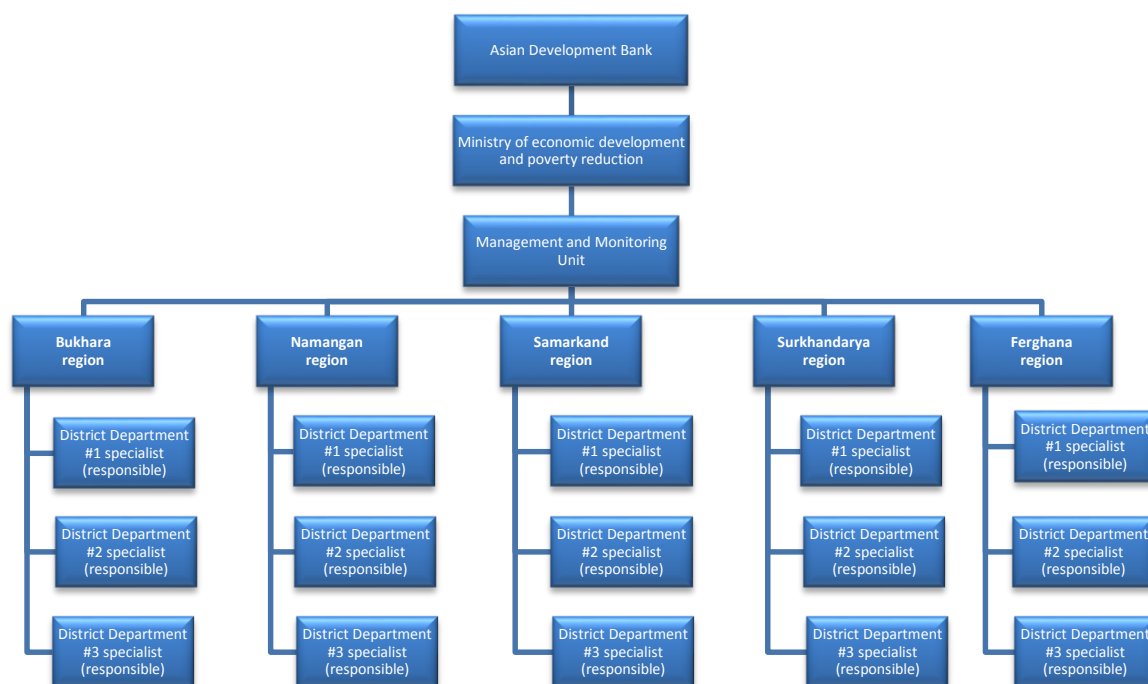
### **1.4. Project organization and environmental management team**

The Ministry of Economic Development and Poverty Reduction (MOEDPR) is the executing agency, the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions are the implementation agency (IA).

The overall responsibility for the development and implementation of the program rests with the MOEDPR, and therefore the MOEDPR at the central level is accountable for the achievement of the results associated with it. The khokimiyats implement this program through their head offices as well as through their district offices, appointing staff to oversee the implementation of the program and submit reports to the MMU / MOEDPR.

All khokimiyats have established an institutional framework for the implementation of the ESMS, and have appointed ESMS coordinators in their head offices and responsible officers in each district participating in ARHP. All coordinators and responsible employees of the ESMS were appointed by the disposition of the leadership of the khokimiyat.

A complete list of coordinators and responsible officers of the ESMS is given in tables 4 of the annual reports of the khokimiyats.



**Figure 1.** Institutional structure of environmental and social project management

## II. ENVIRONMENTAL ISSUES

In accordance with national environmental standards for each array was carried out the national environmental expertise and positive conclusions of the State Environmental Expertise (SEE) were obtained from the regional branches of the State Committee for Ecology and Environmental Protection. Typically, an environmental expertise contains several requirements that must be fulfilled by the contractor during construction. The most common requirements were: timely disposal of waste from construction sites, minimizing tree felling and obtaining permits required for the operational phase. The content of the national environmental assessment report (ZVOS) does not contain a separate section designated as the Environmental Monitoring Plan (EMP).

However, to simplify the environmental monitoring process during construction, a simple checklist for the khokimiyat was used, which was developed for Qishloq Qurilish Invest (QQI) and applied in practice. The checklist includes several parameters that need to be monitored. This checklist has been recommended by the khokimiyat for use in environmental monitoring of construction sites. Samples of completed checklists are provided in Appendixes 8 and 9.

During the reporting period, all khokimiyats carried out monitoring under the ESMS. In particular, in accordance with the requirements of the ESMS, the responsible employees of the khokimiyat visited all the areas that are part of the ARHP to check the compliance of the current construction with environmental requirements. Khokimiyat employees made such visits in most cases on a monthly basis, starting in September, since construction work began around the end of August 2020.

Despite the fact that the National Environmental Legislation does not require environmental monitoring from the side of the khokimiyat, this activity was carried out within the framework of the ESMS requirements. It should be noted that only visual monitoring of the environment was carried out without any instrumental measurements. Instrumental monitoring can be used in the case of complaints from citizens living in the adjacent territories. No complaints were received during the reporting period.

In 4-5 months of the monitoring carried out, on average, each object was visited 3-4 times by the responsible employees of the khokimiyat.

Information on the discrepancies identified by the specialists of the khokimiyat is given in section IV of the annual report. According to the data provided by the khokimiyat, no violations were noted during the site visits.

A summary of the number of site visits carried out by khokimiyats is presented in Table 1. As can be seen from the table, during the reporting period, the total number of site visits was 159.

**Table 1: Summary information on number of site visits conducted by Khokimiyats responsible officers**

Region	Number of conducted monitoring	Number of massifs	Number of observed non-compliance	Observation period
Bukhara	37	10	–	September-December 2020
Namangan	44	11	–	September-December 2020
Samarkand	26	7	–	September-December 2020
Surkhandarya	8	2	–	September-December 2020
Ferghana	44	11	–	September-December 2020
<b>TOTAL:</b>	<b>159</b>	<b>41</b>	–	

*Source: Khokimiyats annual reports for 2020.*

During the environmental monitoring, the employees of the khokimiyat did not register any violation of environmental standards.

Oral notifications were given (*lack of overalls for some workers and the presence of normal conditions for eating*) to the contractors by the specialists of the khokimiyat, the elimination was monitored during subsequent inspections. As a rule, inconsistencies were corrected by contractors within 2-3 weeks and there was no need to register.

During the reporting period, no accidents occurred at construction sites.

### **III. Compliance with ADB social protection requirements and ADB's prohibited investment activities list**

The selection process outlined in the ESMS ensures that all massifs will be selected in full compliance with ADB's social protection requirements and ADB's list of prohibited investment activities.

At the first stage, the employees of the khokimiyat conducted an environmental and social screening of each proposed massive and made a decision on the advisability of including the proposed massifs in the ARHP. At the second stage, responsible employees of the district khokimiyat once again check compliance with environmental and social requirements. Thus, in order to make sure that the requirements of environmental measures were met, the responsible specialists of the ESMS of the khokimiyat checked the massifs for the inclusion of PIAL any measures related to construction. The information provided by the khokimiyat shows that the classification of the massifs was carried out in accordance with their ESMS manual.

As stated in the annual report of the khokimiyat, during the check, the specialists of the district khokimiyat studied the maps with the location of the massifs, checked that the massifs are located on reserved (free) land, which guarantees that there is no need for land acquisition or resettlement. This condition was one of the conditions of the loan agreement.

Also, according to the Decree of the President of the Republic of Uzbekistan "On additional measures to improve the mechanisms of mortgage lending" No. UP-5886 dated November 28, 2019, where paragraph 9 stipulates: "the choice of land plots for the construction of apartment buildings and engineering and transport communications is carried out by the Council of Ministers of the Republic of Karakalpakstan, khokimiyats of regions in agreement with the Urbanization Agency under the Ministry of Economy and Industry, the Ministry of Construction, the Center for Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan and the State Committee of the Republic of Uzbekistan for Land Resources, Geodesy, Cartography and State Cadastre ", not included in the category of the land of the agricultural purpose and forest resources.

It should be noted that, as one of the requirements of the loan agreement, all massifs are tested for the impact of climate change. The government included the Uzhydromet Centre in the regional commissions for the selection of sites for climate change risk assessments (CCRA). In particular, the regional branches of the Uzhydromet Centre are included in the regional precinct commissions for the selection of objects. To date, all relevant reports on CCRA for the massifs (Bukhara, Samarkand, Surkhandarya, Fergana and Namangan regions) of the five project regions of the ADB, prepared by the Uzhydromet Centre, were submitted to the ADB by the letter of the MOEDPR No. 06 / 19-03-5 / GRP-03 dated August 7, 2020, approved by ADB and the relevance of CCRA report concluded by Independent Verification Agency. An example of an approved CCRA report is provided in the Annex 6.

In accordance with tables 2 of the annual reports of the khokimiyat (Annex 1-5), all selected sites are categorized as "B" (ADB) for environmental protection and category "C" for resettlement (ADB). For each massive, a positive conclusion of the state ecological expertise was also received. Information on categorization and the presence of a positive conclusion of the state ecological expertise is presented in tables 2 of the annual reports of the khokimiyat.

Thus, all massifs were selected in full compliance with the requirements of social protection of ADB and the list of prohibited investment activities of ADB at this stage, no corrective action is required.

## IV. ESMS OPERATIONS

During the reporting period, ESMS was implemented through: the implementation of policy and procedures, institutional capacity building, monitoring and reporting.

### 4.1. Policies and Procedure

As indicated in the annual reports, all khokimiyats have an approved ESMS. Each branch of the khokimiyat in the districts has a printed version of the ESMS.

Each regional khokimiyat has an institutional structure for the implementation of the ESMS, in particular, coordinators of the ESMS in the head office and responsible officers in the district offices have been appointed. The lists of coordinators and responsible officers for the ESMS are presented in tables 4 of the annual reports of the khokimiyat. A summary of these employees is presented in the table below.

**Table 2: Number of ESMS officers in Khokimiyats**

#	Implementing Agencies	Number of ESMS officers, including a coordinator
1	Bukhara	10
2	Namangan	8
3	Samarkand	4
4	Surkhandarya	12
5	Ferghana	12

*Source: Khokimiyat annual reports.*

### 4.2. Capacity building

At the end of May 2019, a safeguard specialist was hired by the MMU / MOEDPR. On the side of the national consultant of ADB of the Technical Assistance (TA), a training was held (30/05/2019) on introducing to the ESMS, monitoring and reporting.

In October 2020, a MMU safeguard specialist held an online seminar for khokimiyat employees on the implementation of the ESMS within the program. The online seminar was attended by over 50 people from the khokimiyat.

In addition, the MMU safeguard specialist provided assistance and advice on the preparation of the annual reports of the khokimiyat.

### 4.3. Monitoring and reporting

As part of monitoring the implementation of the ESMS, the khokimiyat employees carried out regular inspections of construction sites. A brief description of the monitoring activities carried out is presented in chapter II of this summary report and in tables 3-8

of the annual reports of the khokimiyat. The format developed by ADB National Consultant specially prepared for this project for “Qishloq Qurilish Invest (QQI)” was used to simplify the monitoring procedure. The format looks like a checklist with all mitigation measures and a list of documents that are required at the construction site. This format was presented to the khokimiyats.

In addition, for effective monitoring of the implementation of the ESMS, it was recommended that a separate folder be created and all documents related to the operation of the ESMS should be placed in this folder. The folder should contain the following documents:

- copy of the manual on ESMS;
- an order / assignment to appoint responsible officials for ESMS;
- for each allocated massif: the conclusion of Uzhydromet on the assessment of climate change, the positive conclusion of the State Committee on Ecology and Environmental Protection; completed form 2 (environmental, social screening sheets);
- completed site visits forms (EMP);
- information on received complaints;
- correspondence with contractors on detected violations and undertaken actions.

All khokimiyats submitted their annual reports, which served as the basis for the preparation of this consolidated report. The report will be published on the ADB website and khokimiyats' websites after ADB approval.

To increase the responsibility of contractors with whom construction contracts were awarded in 2020, an Environmental Monitoring Plan (EMP) form was included in the bidding documents as agreed with ADB.

#### **4.4. Consultations and Complaints**

Each khokimiyat has an internal procedure for citizens' appeals. This procedure is described in sections 6 of the annual reports. The procedures were developed on the basis of the Law of the Republic of Uzbekistan “On appeals of individuals and legal entities”. The head office of the khokimiyat has a Complaints Department. At the district level, legal advisers are assigned for this aspect.

MMU assists the Implementation Agency in the implementation of program activities, including the coordination of ESMS. Accordingly, if MMU receives any complaints about the implementation of ESMS, then MMU immediately contacts the relevant departments of the khokimiyat to take measures to resolve the problem. At the same time, MMU monitors the processing of complaints received under the program; no complaints were received during the reporting period.

According to the law, all received complaints must be considered within 15 days from the date of their receipt. Moreover, any person affected by the project could apply directly to the virtual reception of the khokimiyat or the Cabinet of Ministers of the Republic of Uzbekistan - [www.my.gov.uz](http://www.my.gov.uz).

Public consultations were not held in 2020.

## V. CONCLUSION AND ACTION PLAN

Based on the information provided in the previous chapters of this summary report and the annual reports submitted by the khokimiyats, it can be concluded that ESMS is working effectively. ESMS was officially adopted by all five khokimiyats and approved, the institutional structure of ESMS was created, monitoring is carried out and internal (between the district offices of each khokimiyat) and external (between khokimiyats and MMU) reporting systems are operating.

The National Environmental Assessment (ZVOS) for residential massifs being prepared in accordance with the template agreed in 2019. The EMP format is included in the tender documentation and from 2020 was mandatory for all contractors who have received a contract.

A summary of the action plan for the next reporting period is presented in the table below (according to the annual report of the khokimiyats).

**Table 3: Action plan for the next reporting period**

<b>Implementing Agencies</b>	<b>Issues</b>	<b>Required actions</b>	<b>Responsibility</b>	<b>Period / date</b>
MMU	Consolidation of Annual Environmental Safeguards Monitoring Reports and providing to ADB	Consolidation and compilation of Annual Environmental Safeguards Monitoring Reports, which are based on an Annual Environmental Safeguards Monitoring Report submitted by Khokimiyats in accordance with their respective ESMS	Specialist on the ESMS of MMU	1 <sup>st</sup> quarter of 2021
MMU	As necessary, conducting a series of trainings by the ESMS Coordinator for the specialists of the regional branches	To develop the presentation materials and make a training schedule	Specialist on the ESMS of MMU	During 2021
Khokimiyat of Bukhara region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Bukhara region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021
Khokimiyat of Samarkand region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document	Coordinator ESMS	1 <sup>st</sup> quarter of 2021

		on the website of the khokimiyat		
Khokimiyat of Samarkand region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021
Khokimiyat of Surkhandarya region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Surkhandarya region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021
Khokimiyat of Namangan region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Namangan region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021
Khokimiyat of Ferghana region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Ferghana region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021

## VI. ANNEXES

# **Annual report on monitoring of safeguards measures**

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## *For FI operations*

**Project number:** 3535-UZB

**Reporting period:** September - December 2020

**Full country name:** Republic of Uzbekistan

**Project Name:** Affordable Rural Housing Program - Result based lending with participation of Asian Development Bank

**Financed by:** Asian Development Bank

**Developed by:** ESMS Coordinator A. Gaibullaev

**Name of the organization:** Khokimiyat of Bukhara region

**Country, city:** Republic of Uzbekistan, Bukhara

**Executing Agency:** Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan

**Approved by:** Deputy khokim of Bukhara region N. Khamdamov

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## Part I. Introduction

The Program for the construction of affordable residential buildings based on updated standard projects in rural areas for 2017-2021 was initiated by the Government of the Republic of Uzbekistan in accordance with the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated February 3, 2017 "On additional measures for the implementation of the Program for the construction of affordable residential buildings on updated standard projects in rural areas for 2017-2021 with the participation of the Asian Development Bank".

In pursuance of the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated March 2, 2017 between the Republic of Uzbekistan and ADB signed Loan Agreement No.3535-UZB dated July 6, 2017 for the amount of \$ 500.0 million, which entered into force on July 18, 2017.

The Executing Agency (EA) is the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, which, through the Management and Monitoring Unit (MMU), manages and monitors this program. Regional khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions were identified as implementing agencies (IA).

In recent years, the country has taken consistent measures to improve the housing and living conditions of the population by expanding the scale of construction of affordable residential and apartment buildings, introducing new architectural and technical solutions into the industry. At the same time, further improvement of the housing conditions of the population necessitates the formation and development of a modern market system of mortgage lending for individuals, widespread involvement and full transition to housing construction by private contractors (hereinafter the **private sector**), as well as strengthening the targeting and transparency of the provision of state support to families in need of better living conditions.

In order to further expand the scale of mortgage lending, create conditions for the development of private sectors, introduce new mechanisms to provide support to people in need of better housing conditions, rational use of land resources and intensify the processes of urbanization of settlements. A new procedure is being introduced to provide the population with housing at the expense of mortgage loans based on market principles (hereinafter referred to as the **New Order**).

According to the Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019 "On additional measures to improve the mechanisms of mortgage lending", where the **CUSTOMER** determined the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions, as well as in the development of tender documentation, tenders and contracts with a contractor (**pilot scheme**).

In this way, residential buildings (multi-storey apartments) in accordance with the new order will be built at the expense of the own financial resources of the construction company (contractors), i.e. purchase of building materials, salaries for employees, etc. After the completion of the construction of a multi-storey building, the construction company offers ready-made apartments to the citizens of the Republic of Uzbekistan on the basis of mortgage lending.

Interested citizens of the Republic of Uzbekistan can obtain mortgage loans at the expense of ADB financing for ready-made apartments of their choice, which were built by the private sector within the framework of the Program.

In addition, a new procedure for the allocation of subsidies for citizens of the Republic of Uzbekistan No. 182 dated March 25, 2020 "On approval of the regulation on the procedure for paying subsidies to citizens for the purchase of housing" was approved by the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan.

This Procedure includes families with low incomes and in need of better housing conditions, women in difficult social situations, young people actively participating in the public life of the country and other groups of the population in need of assistance and improvement of housing conditions through social support and transparency of state support to receive subsidies

based on social needs for residential buildings in rural areas within the framework of the Program.

According to the new order (Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019) for 2020, 5 regions for the private sector were selected as a Pilot scheme within the framework of the Program.

In 2020 – 2,660 mortgage agreements should be concluded in the private sector, which were distributed as follows between five regional khokimiyats (pilot scheme):

- khokimiyat of Bukhara region - 500 preferential mortgage loans;
- khokimiyat of Namangan region - 462 preferential mortgage loans;
- khokimiyat of Samarkand region - 900 preferential mortgage loans;
- khokimiyat of Surkhandarya region - 96 preferential mortgage loans;
- khokimiyat of Ferghana region - 702 preferential mortgage loans.

At the same time, the distribution by districts, massifs and the number of houses looked as follows in the framework of the Program in 2020 for the Bukhara region:

**Table 1**

**Distribution of residential buildings in the Bukhara region for 2020 by districts and massifs within the framework of the Program with the participation of the ADB**

#	District	Massifs	Total number of houses	4-storey 24-room apartment		Multi-story houses	
				number of houses	number of apartments	number of houses	number of apartments
1	Bukhara	Rabotak	26			1	26
2	Bukhara	Zarmanok	54	2	54		
3	Jondor	Navgadi	30			1	30
4	Qorakul	Pakhtakor	90			3	90
5	Karovulbazar	Navbahor	30			1	30
6	Peshku	Chigirchi	30			1	30
7	Romitan	Bobur	60			2	60
8	Shafirkon	Boboato	30			1	30
9	Kogon	Sukhor	60			2	60
10	Gijduvan	F.Khujayev	90			3	90
		<b>TOTAL:</b>	<b>500</b>	<b>2</b>	<b>54</b>	<b>15</b>	<b>446</b>

It should be noted that all residential buildings built under the updated standard projects within the framework of the 2020 Program fell under the category "B", which implies a low environmental impact, in accordance with Appendix 4 to the Loan Agreement – Program Execution.

Information about the results of the categorization of massifs is given in tabular form:

**Table 2**

**Results carried out by the khokimiyat of Bukhara region on the categorization of the massifs selected for the construction of affordable residential buildings within the framework of the Program with the participation of ADB in 2020**

#	District	Massifs	Project category on screening sheet on ecology	Project category on screening sheet on sociology	The presence of the conclusion of environmental expertise
1	Bukhara	Rabotak	B	C	Yes
2	Bukhara	Zarmanok	B	C	Yes

3	Jondor	Navgadi	B	C	Yes
4	Qorakul	Pakhtakor	B	C	Yes
5	Karovulbazar	Navbahor	B	C	Yes
6	Peshku	Chigirchi	B	C	Yes
7	Romitan	Bobur	B	C	Yes
8	Shafirkon	Boboato	B	C	Yes
9	Kogon	Sukhor	B	C	Yes
10	Gijduvan	F.Khujayev	B	C	Yes

The selection of massifs for the construction of houses for 2020 was made through screening and categorization of sub-projects, in accordance with the requirements of the Loan Agreement (*Appendix 4 - Program Execution and Appendix 5 - List of Prohibited Activities Not Sponsored by ADB*) and in accordance with the Decree Of the President of the Republic of Uzbekistan No.UP-5886 "On additional measures to improve the mechanisms of mortgage lending" dated November 28, 2019, where paragraph 9 stipulates that: "the choice of land plots for the construction of apartment buildings and engineering and transport communications is carried out by the Council of Ministers of the Republic of Karakalpakstan, khokimiyats of regions in agreement with the Urbanization Agency under the Ministry of Economy and Industry, the Ministry of Construction, the Centre for Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan, and the State Committee of the Republic of Uzbekistan for Land Resources, Geodesy, Cartography and the State cadastre", not included in the category of agricultural land and forest resources.

During the categorization, the screening process forms were filled out, in accordance with Appendix 2 of the ADB Environmental and Social Requirements Manual for the khokimiyat, in 3 stages: 1) environmental screening, 2) climate risk screening, and 3) screening for involuntary resettlement issues. This screening was carried out on site (site) and by studying the contour maps of the location of each massive.

After the start of construction work, the specialists of the district khokimiyat monitored (audited) the implementation of each sub-project to make sure that EMP was implemented in the field, in accordance with the requirements of the guidance for ESMS khokimiyat.

Information on the number of audits conducted by the specialists of the khokimiyat of Bukhara region is given in the following table:

**Table 3**

**Information about the number of audits conducted by the khokimiyat of the Bukhara region within the framework Program with participation of ADB in 2020**

#	District	Massifs	Start date of construction	Number of audits performed	By whom the audit was held *
1	Bukhara	Rabotak	September	4	
2	Bukhara	Zarmanok	September	4	
3	Jondor	Navgadi	September	3	
4	Qorakul	Pakhtakor	September	4	
5	Karovulbazar	Navbahor	September	3	
6	Peshku	Chigirchi	September	4	
7	Romitan	Bobur	September	4	
8	Shafirkon	Boboato	September	4	
9	Kogon	Sukhor	September	3	
10	Gijduvan	F.Khujayev	September	4	
			<b>TOTAL:</b>	<b>37</b>	

\* - The audit was carried out by the specialists responsible for ESMS (production and technical departments) of the regional offices of the khokimiyat of the Bukhara region on the basis of the approved list of the working group.

### ***Implementation of reporting requirements for sub-projects***

The ESMS manual, developed by ADB for the khokimiyat of the Bukhara region, was agreed and approved in December 2020.

The ESMS coordinator and regional representatives of the khokimiyat, in accordance with the requirements of the ESMS manual, who are responsible for the implementation of ESMS requirements in the khokimiyat of Bukhara region, participated in an online seminar that was held from 21 to 22 October 2020 to discuss the effectiveness of the implementation of ESMS in the khokimiyat and relevance systems of protective measures. The online seminar discussed the implementation of ESMS in regional khokimiyats through technical supervision, including monitoring according to the Environmental Management Plan, carried out by specialists of the production and technical departments of the regional offices of the khokimiyat. Table 4 shows a list of employees of the khokimiyat of the Bukhara region, appointed responsible for the implementation of ESMS.

**Table 4**

**Information about the appointed coordinator and specialists ESMS in the field in the khokimiyat of the Bukhara region in the project regions (working group)**

#	District (full name)	Position	Full name	Order / decree on appointment
1	Bukhara city	ESMS coordinator	A. Gaibullaev	According to the approved list of the working group
2	Khokimiyat of Bukhara district	Responsible for the ESMS	K. Muyassarov	
3	Khokimiyat of Jondor district	Responsible for the ESMS	A. Zokirov	
4	Khokimiyat of Kogon district	Responsible for the ESMS	Sh.Khujaev	
5	Khokimiyat of Qorakul district	Responsible for the ESMS	B. Jumaev	
6	Khokimiyat of Gijduvan district	Responsible for the ESMS	A. Akhmedov	
7	Khokimiyat of Peshku district	Responsible for the ESMS	T.Yodgorov	
8	Khokimiyat of Romitan district	Responsible for the ESMS	N. Murotov	
9	Khokimiyat of Shafirkon district	Responsible for the ESMS	M. Amanov	
10	Khokimiyat of Karovulbazar district	Responsible for the ESMS	A.Khodjaev	

## **Part II. Environmental issues**

In the reporting period, environmental monitoring in the project regions was carried out by the responsible specialists for ESMS. In accordance with the letter No. 06/19-GRP-11/09 on August 26, 2020 received from the Ministry of Economic Development and Poverty

Reduction of the Republic of Uzbekistan, the monitoring of each massive was carried out according to the submitted and approved form of the "Environmental Monitoring Plan".

According to ADB's requirements, starting from 2020, the "Environmental Management Plan" was included in the tender documentation and further into the contract agreement to identify cases of violation of ADB's environmental requirements and in accordance with the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 355 dated June 4, 2020.

During the monitoring carried out in 2020, no violations of environmental standards were revealed. Verbal instructions were given to contractors (construction companies) in some construction sites that some workers lack uniforms (overalls) and normal conditions for eating. In the next visit, the identified shortcomings were eliminated (within 2-3 weeks) by contractors (construction companies), and therefore there was no need to register them.

There were no accidents or incidents at the construction sites.

**Table 5**

**Information on identified problems during environmental monitoring conducted by specialists of Khokimiyat on ESMS within the framework 2020 Program**

#	District	Number of audits	Identified discrepancies in:					
			Noise and vibration	Air pollution	Water pollution (visual)	Flora and fauna (visually)	Safety	Accidents
	<b>TOTAL:</b>	<b>37</b>						
1	Bukhara	4	no	no	no	no	no	no
2	Bukhara	4	no	no	no	no	no	no
3	Jondor	3	no	no	no	no	no	no
4	Qorakul	4	no	no	no	no	no	no
5	Karovulbazar	3	no	no	no	no	no	no
6	Peshku	4	no	no	no	no	no	no
7	Romitan	4	no	no	no	no	no	no
8	Shafirkon	4	no	no	no	no	no	no
9	Kogon	3	no	no	no	no	no	no
10	Gijduvan	4	no	no	no	no	no	no

### **Part III: Compliance with ADB's Social Security Requirements and List of Prohibited ADB Investment Activities**

Prior to the signing of the contract for the construction of affordable housing for the updated standard projects in rural areas under the 2020 Program, the responsible specialists for ESMS assessed the sub-projects for compliance with the prohibited types of investment activities listed in the ADB's Prohibited Investment Activities List (PIAL). During the assessment, not a single sub-project was identified that would correspond to the designated list.

Table 6

## ADB's Prohibited Investment Activities List

#	ADB's Prohibited Investment Activities	Compliance of the program
1	Any activity classified under the A category of environmental impact (is equivalent to the 1-Class and 2-Class) and under the B category of environmental impact (3-Class and 4-Class), in case of classified as sensitive;	The activities under this program is classified as B-category of environment (3-Class and 4-Class)
2	production or activities involving harmful or exploitative forms of forced labor <sup>1</sup> or child labor <sup>2</sup> ;	This activity does not included into the program
3	production of or trade in any product or activity deemed illegal under host country laws <sup>3</sup> or regulations or international conventions and agreements or subject to international phaseouts or bans, such as (a) pharmaceuticals, pesticides, and herbicides, <sup>4</sup> (b) ozone-depleting substances, <sup>5</sup> (c) polychlorinated biphenyls <sup>6</sup> and other hazardous chemicals, <sup>7</sup> (d) wildlife or wildlife products regulated under the Convention on International Trade in Endangered Species of Wild Fauna and Flora, <sup>8</sup> and (e) transboundary trade in waste or waste products <sup>9</sup> ;	This activity does not included into the program
4	production of or trade in weapons and munitions, including paramilitary materials;	This activity does not included into the program
5	production of or trade in alcoholic beverages, excluding beer and wine <sup>10</sup> ;	This activity does not included into the program
6	production of or trade in tobacco <sup>11</sup> ;	This activity does not included into the program
7	gambling, casinos, and equivalent enterprises;	This activity does not included into the program
8	production of or trade in radioactive materials, <sup>11</sup> including nuclear reactors and components thereof;	This activity does not included into the program
9	production of, trade in, or use of unbonded asbestos fibers; <sup>12</sup>	This activity does not included into the program
10	commercial logging operations or the purchase of logging equipment for use in primary tropical moist forests or old-growth forests;	This activity does not included into the program
11	marine and coastal fishing practices, such as large-scale pelagic drift net fishing and fine mesh net fishing, harmful to vulnerable and protected species in large numbers and damaging to marine biodiversity and habitats; and	This activity does not included into the program
12	mining activities.	This activity does not included into the program

1. Forced labor means all work or services not voluntarily performed, that is, extracted from individuals under threat of force or penalty

2. Child labor means the employment of children whose age is below the host country's statutory minimum age of employment or employment of children in contravention of International Labor Organization Convention No. 138 "Minimum Age Convention" (www.ilo.org).

3. A list of pharmaceutical products subject to phaseouts or bans is available at <http://www.who.int>.

4. A list of pesticides and herbicides subject to phaseouts or bans is available at <http://www.pic.int>.

5. A list of the chemical compounds that react with and deplete stratospheric ozone resulting in the widely publicized ozone holes is listed in the Montreal Protocol, together with target reduction and phaseout dates. Information is available at <http://www.unep.org/ozone/montreal.shtml>.

6. A group of highly toxic chemicals, polychlorinated biphenyls are likely to be found in oil-filled electrical transformers, capacitors, and switchgear dating from 1950 to 1985.

7. A list of hazardous chemicals is available at <http://www.pic.int>.

8. A list is available at <http://www.cites.org>.

9. As defined by the Basel Convention; see <http://www.basel.int>.

10. This does not apply to project sponsors who are not substantially involved in these activities. Not substantially involved means that the activity concerned is ancillary to a project sponsor's primary operations.

11. This does not apply to the purchase of medical equipment, quality control (measurement) equipment, and any equipment for which ADB considers the radioactive source to be trivial and adequately shielded.

12. This does not apply to the purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.

Regarding compliance with social protection requirements, within the framework 2020 ADB Program, there were no cases of forced resettlement of local residents, land acquisition, and not a single person was injured during construction. For this, the ESMS formats were filled in, field visits were carried out.

#### **Part IV: ESMS activities**

As noted above, construction sites for the purpose of environmental monitoring were visited by the responsible persons for ESMS on a monthly basis. The number of such visits is given below.

**Table 7**

**Information on environmental monitoring conducted by specialists on ESMS of Khokimiyat within the framework 2020 Program**

#	District	Number of audits	Purpose of audit	Note
1	Bukhara	4	EMP implementation	
2	Bukhara	4	EMP implementation	
3	Jondor	3	EMP implementation	
4	Qorakul	4	EMP implementation	
5	Karovulbazar	3	EMP implementation	
6	Peshku	4	EMP implementation	
7	Romitan	4	EMP implementation	
8	Shafirkon	4	EMP implementation	
9	Kogon	3	EMP implementation	
10	Gijduvan	4	EMP implementation	
	<b>TOTAL:</b>	<b>37</b>		

During the audit conducted in the project regions, no cases of non-compliance with the safeguards requirements were identified.

**Table 8**

**Information about cases of non-compliance with protective measures identified during environmental monitoring conducted by ESMS specialists within the framework 2020 Program**

#	District	Number of audits	Number of notifications issued by Khokimiyat	Announcement received by	What issues were addressed
1	Bukhara	4	—	—	—
2	Bukhara	4	—	—	—
3	Jondor	3	—	—	—
4	Qorakul	4	—	—	—
5	Karovulbazar	3	—	—	—
6	Peshku	4	—	—	—
7	Romitan	4	—	—	—
8	Shafirkon	4	—	—	—
9	Kogon	3	—	—	—
10	Gijduvan	4	—	—	—

As for the complaints mechanism, in the khokimiyat of Bukhara region, such a mechanism exists and is operating. Thus, in the head office, a department exists to deal with complaints from legal entities and individuals. Also, there is a complaint book at every construction site.

In accordance with the Law of the Republic of Uzbekistan "On appeals of individuals and legal entities" received complaints or appeals must be considered by the khokimiyat within 15 days from the date of their receipt.

At the same time, persons affected by the project can contact the virtual reception of the Government of the Republic of Uzbekistan – [www.my.gov.uz](http://www.my.gov.uz) or go to the website of the khokimiyat at the link [www.buxoro.uz](http://www.buxoro.uz)

During the reporting period, the khokimiyat of Bukhara region did not receive complaints from persons affected by the Program for the construction of affordable housing on updated standard projects in rural areas in 2020.

**Table 9**

**Information on complaints received from persons affected by the Affordable Rural Housing Program 2020**

#	District	Number of complaints received	Type (in writing, orally, by phone)	Main topics for complaints	Number of complaints solved
1	Bukhara	—	—	—	—
2	Bukhara	—	—	—	—
3	Jondor	—	—	—	—
4	Qorakul	—	—	—	—
5	Karovulbazar	—	—	—	—
6	Peshku	—	—	—	—
7	Romitan	—	—	—	—
8	Shafirkon	—	—	—	—
9	Kogon	—	—	—	—
10	Gijduvan	—	—	—	—

## Part V: Conclusion and Action Plan

Based on the results of the reporting period, the khokimiyat of Bukhara region fulfilled all the requirements for safeguards imposed by the terms of the ADB Loan Agreement signed as part of the second phase of the affordable housing construction program using the new results-based lending mechanism.

During the period from September 30 to October 1, 2020, the ADB Review Mission (*auditing company "AARC"*) verified DLI-4 compliance with climate change requirements in the region in accordance with the requirements of Loan Agreement No.3535-UZB dated July 6, 2017. During the ADB Review Mission employees of the khokimiyat of Bukhara region took part and provided assistance.

The khokimiyat of Bukhara region intends to take the following actions in 2021 to improve efficiency:

Table 10

## Action plan of the khokimiyat of Bukhara region for 2021

Implementing Agencies	Issues	Actions required	Responsible	Period / dated
Khokimiyat of Bukhara region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Bukhara region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021

# **Annual report on monitoring of safeguards measures**

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## *For FI operations*

**Project number:** 3535-UZB

**Reporting period:** September - December 2020

**Full country name:** Republic of Uzbekistan

**Project Name:** Affordable Rural Housing Program - Result based lending with participation of Asian Development Bank

**Financed by:** Asian Development Bank

**Developed by:** ESMS Coordinator N.Kudratov

**Name of the organization:** Khokimiyat of Samarkand region

**Country, city:** Republic of Uzbekistan, Samarkand

**Executing Agency:** Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan

**Approved by:** Deputy khokim of Samarkand region A. Shukurov

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## Part I. Introduction

The Program for the construction of affordable residential buildings based on updated standard projects in rural areas for 2017-2021 was initiated by the Government of the Republic of Uzbekistan in accordance with the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated February 3, 2017 "On additional measures for the implementation of the Program for the construction of affordable residential buildings on updated standard projects in rural areas for 2017-2021 with the participation of the Asian Development Bank".

In pursuance of the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated March 2, 2017 between the Republic of Uzbekistan and ADB signed Loan Agreement No.3535-UZB dated July 6, 2017 for the amount of \$ 500.0 million, which entered into force on July 18, 2017.

The Executing Agency (EA) is the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, which, through the Management and Monitoring Unit (MMU), manages and monitors this program. Regional khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions were identified as implementing agencies (IA).

In recent years, the country has taken consistent measures to improve the housing and living conditions of the population by expanding the scale of construction of affordable residential and apartment buildings, introducing new architectural and technical solutions into the industry. At the same time, further improvement of the housing conditions of the population necessitates the formation and development of a modern market system of mortgage lending for individuals, widespread involvement and full transition to housing construction by private contractors (hereinafter the **private sector**), as well as strengthening the targeting and transparency of the provision of state support to families in need of better living conditions.

In order to further expand the scale of mortgage lending, create conditions for the development of private sectors, introduce new mechanisms to provide support to people in need of better housing conditions, rational use of land resources and intensify the processes of urbanization of settlements. A new procedure is being introduced to provide the population with housing at the expense of mortgage loans based on market principles (hereinafter referred to as the **New Order**).

According to the Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019 "On additional measures to improve the mechanisms of mortgage lending", where the **CUSTOMER** determined the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions, as well as in the development of tender documentation, tenders and contracts with a contractor (**pilot scheme**).

In this way, residential buildings (multi-storey apartments) in accordance with the new order will be built at the expense of the own financial resources of the construction company (contractors), i.e. purchase of building materials, salaries for employees, etc. After the completion of the construction of a multi-storey building, the construction company offers ready-made apartments to the citizens of the Republic of Uzbekistan on the basis of mortgage lending.

Interested citizens of the Republic of Uzbekistan can obtain mortgage loans at the expense of ADB financing for ready-made apartments of their choice, which were built by the private sector within the framework of the Program.

In addition, a new procedure for the allocation of subsidies for citizens of the Republic of Uzbekistan No. 182 dated March 25, 2020 "On approval of the regulation on the procedure for paying subsidies to citizens for the purchase of housing" was approved by the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan.

This Procedure includes families with low incomes and in need of better housing conditions, women in difficult social situations, young people actively participating in the public

life of the country and other groups of the population in need of assistance and improvement of housing conditions through social support and transparency of state support to receive subsidies based on social needs for residential buildings in rural areas within the framework of the Program.

According to the new order (Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019) for 2020, 5 regions for the private sector were selected as a Pilot scheme within the framework of the Program.

In 2020 – 2,660 mortgage agreements should be concluded in the private sector, which were distributed as follows between five regional khokimiyats (**pilot scheme**):

- khokimiyat of Bukhara region - 500 preferential mortgage loans;
- khokimiyat of Namangan region - 462 preferential mortgage loans;
- khokimiyat of Samarkand region - 900 preferential mortgage loans;
- khokimiyat of Surkhandarya region - 96 preferential mortgage loans;
- khokimiyat of Ferghana region - 702 preferential mortgage loans.

At the same time, the distribution by districts, massifs and the number of houses looked as follows in the framework of the Program in 2020 for the Samarkand region:

**Table 1**

**Distribution of residential buildings in the Samarkand region for 2020 by districts and massifs within the framework of the Program with the participation of the ADB**

#	District	Massifs	Total number of houses	4-storey 24-room apartment		Multi-story houses	
				number of houses	number of apartments	number of houses	number of apartments
1	Pakhtachi	Istiklol	60			1	60
2	Jomboy	A.Kurbanov	60			1	60
3	Taylok	Charagbon	120			2	120
4	Okdarya	Loyish	180			4	180
5	Payarik	Yangihayot	60			1	60
6	Samarkand	Korasuv	240			3	240
7	Urgut	Mergancha	180			3	180
		<b>TOTAL:</b>	<b>900</b>	<b>-</b>	<b>-</b>	<b>15</b>	<b>900</b>

It should be noted that all residential buildings built under the updated standard projects within the framework of the 2020 Program fell under the category "B", which implies a low environmental impact, in accordance with Appendix 4 to the Loan Agreement – Program Execution.

Information about the results of the categorization of massifs is given in tabular form:

**Table 2**

**Results carried out by the khokimiyat of Samarkand region on the categorization of the massifs selected for the construction of affordable residential buildings within the framework of the Program with the participation of ADB in 2020**

#	District	Massifs	Project category on screening sheet on ecology	Project category on screening sheet on sociology	The presence of the conclusion of environmental expertise
1	Pakhtachi	Istiklol	B	C	YES
2	Jomboy	A.Kurbanov	B	C	YES
3	Taylok	Charagbon	B	C	YES

4	Okdarya	Loyish	B	C	YES
5	Payarik	Yangihayot	B	C	YES
6	Samarkand	Korasuv	B	C	YES
7	Urgut	Mergancha	B	C	YES

The selection of massifs for the construction of houses for 2020 was made through screening and categorization of sub-projects, in accordance with the requirements of the Loan Agreement (*Appendix 4 - Program Execution and Appendix 5 - List of Prohibited Activities Not Sponsored by ADB*) and in accordance with the Decree Of the President of the Republic of Uzbekistan No.UP-5886 "On additional measures to improve the mechanisms of mortgage lending" dated November 28, 2019, where paragraph 9 stipulates that: "the choice of land plots for the construction of apartment buildings and engineering and transport communications is carried out by the Council of Ministers of the Republic of Karakalpakstan, khokimiyats of regions in agreement with the Urbanization Agency under the Ministry of Economy and Industry, the Ministry of Construction, the Centre for Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan, and the State Committee of the Republic of Uzbekistan for Land Resources, Geodesy, Cartography and the State cadastre", not included in the category of agricultural land and forest resources.

During the categorization, the screening process forms were filled out, in accordance with Appendix 2 of the ADB Environmental and Social Requirements Manual for the khokimiyat, in 3 stages: 1) environmental screening, 2) climate risk screening, and 3) screening for involuntary resettlement issues. This screening was carried out on site (site) and by studying the contour maps of the location of each massive.

After the start of construction work, the specialists of the district khokimiyat monitored (audited) the implementation of each sub-project to make sure that EMP was implemented in the field, in accordance with the requirements of the guidance for ESMS khokimiyat.

Information on the number of audits conducted by the specialists of the khokimiyat of Samarkand region is given in the following table:

**Table 3**

**Information about the number of audits conducted by the khokimiyat of the Samarkand region within the framework Program with participation of ADB in 2020**

#	District	Massifs	Start date of construction	Number of audits performed	By whom the audit was held *
1	Pakhtachi	Istiklol	September	4	
2	Jomboy	A.Kurbanov	September	4	
3	Taylok	Charagbon	September	3	
4	Okdarya	Loyish	September	4	
5	Payarik	Yangihayot	September	3	
6	Samarkand	Korasuv	September	4	
7	Urgut	Mergancha	September	4	
			<b>TOTAL:</b>	<b>26</b>	

\* - The audit was carried out by the specialists responsible for ESMS (production and technical departments) of the regional offices of the khokimiyat of the Samarkand region on the basis of the approved list of the working group.

### ***Implementation of reporting requirements for sub-projects***

The ESMS manual, developed by ADB for the khokimiyat of the Samarkand region, was agreed and approved in December 2020.

The ESMS coordinator and regional representatives of the khokimiyat, in accordance with the requirements of the ESMS manual, who are responsible for the implementation of ESMS requirements in the khokimiyat of Samarkand region, participated in an online seminar that was held from 21 to 22 October 2020 to discuss the effectiveness of the implementation of ESMS in the khokimiyat and relevance systems of protective measures. The online seminar discussed the implementation of ESMS in regional khokimiyats through technical supervision, including monitoring according to the Environmental Management Plan, carried out by specialists of the production and technical departments of the regional offices of the khokimiyat. Table 4 shows a list of employees of the khokimiyat of the Samarkand region, appointed responsible for the implementation of ESMS.

**Table 4**

**Information about the appointed coordinator and specialists ESMS in the field in the khokimiyat of the Samarkand region in the project regions (working group)**

#	District (full name)	Position	Full name	Order / decree on appointment
1	Samarkand city	ESMS coordinator	Kudratov Navruz	According to the approved list of the working group
2	Khokimiyat of Taylok district	Chief specialist of the khokimiyat and responsible for the ESMS	Tukhtaev Khurshidjon	
3	Khokimiyat of Samarkand district	Chief specialist of the khokimiyat and responsible for the ESMS	Ochilov Sunnat	
4	Khokimiyat of Pakhtachi district	Chief specialist of the khokimiyat and responsible for the ESMS	Sanakulov Homidjon	
5	Khokimiyat of Jomboy district	Chief specialist of the khokimiyat and responsible for the ESMS	Suvonov Sherzod	
6	Khokimiyat of Okdarya district	Chief specialist of the khokimiyat and responsible for the ESMS	Sa'dullaev Ilxom	
7	Khokimiyat of Urgut district	Chief specialist of the khokimiyat and responsible for the ESMS	Nodir Shodiev	
8	Khokimiyat of Payarik district	Chief specialist of the khokimiyat and responsible for the ESMS	Sherzod Muxammatov	

## **Part II. Environmental issues**

In the reporting period, environmental monitoring in the project regions was carried out by the responsible specialists for ESMS. In accordance with the letter No. 06/19-GRP-11/09 on August 26, 2020 received from the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, the monitoring of each massive was carried out according to the submitted and approved form of the "Environmental Monitoring Plan".

According to ADB's requirements, starting from 2020, the “Environmental Management Plan” was included in the tender documentation and further into the contract agreement to identify cases of violation of ADB's environmental requirements and in accordance with the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 355 dated June 4, 2020.

During the monitoring carried out in 2020, no violations of environmental standards were revealed. Verbal instructions were given to contractors (construction companies) in some construction sites that some workers lack uniforms (overalls) and normal conditions for eating. In the next visit, the identified shortcomings were eliminated (within 1-2 weeks) by contractors (construction companies), and therefore there was no need to register them.

There were no accidents or incidents at the construction sites.

**Table 5**

**Information on identified problems during environmental monitoring conducted by specialists of Khokimiyat on ESMS within the framework 2020 Program**

#	District	Number of audits	Identified discrepancies in:					
			Noise and vibration	Air pollution	Water pollution (visual)	Flora and fauna (visually)	Safety	Accidents
	<b>TOTAL:</b>	<b>26</b>						
1	Pakhtachi	4	–	–	–	–	–	–
2	Jomboy	4	–	–	–	–	–	–
3	Taylok	3	–	–	–	–	–	–
4	Okdarya	4	–	–	–	–	–	–
5	Payarik	3	–	–	–	–	–	–
6	Samarkand	4	–	–	–	–	–	–
7	Urgut	4	–	–	–	–	–	–

### **Part III: Compliance with ADB's Social Security Requirements and List of Prohibited ADB Investment Activities**

Prior to the signing of the contract for the construction of affordable housing for the updated standard projects in rural areas under the 2020 Program, the responsible specialists for ESMS assessed the sub-projects for compliance with the prohibited types of investment activities listed in the ADB's Prohibited Investment Activities List (PIAL). During the assessment, not a single sub-project was identified that would correspond to the designated list.

Table 6

## ADB's Prohibited Investment Activities List

#	ADB's Prohibited Investment Activities	Compliance of the program
1	Any activity classified under the A category of environmental impact (is equivalent to the 1-Class and 2-Class) and under the B category of environmental impact (3-Class and 4-Class), in case of classified as sensitive;	The activities under this program is classified as B-category of environment (3-Class and 4-Class)
2	production or activities involving harmful or exploitative forms of forced labor <sup>1</sup> or child labor <sup>2</sup> ;	This activity does not included into the program
3	production of or trade in any product or activity deemed illegal under host country laws <sup>3</sup> or regulations or international conventions and agreements or subject to international phaseouts or bans, such as (a) pharmaceuticals, pesticides, and herbicides, <sup>4</sup> (b) ozone-depleting substances, <sup>5</sup> (c) polychlorinated biphenyls <sup>6</sup> and other hazardous chemicals, <sup>7</sup> (d) wildlife or wildlife products regulated under the Convention on International Trade in Endangered Species of Wild Fauna and Flora, <sup>8</sup> and (e) transboundary trade in waste or waste products <sup>9</sup> ;	This activity does not included into the program
4	production of or trade in weapons and munitions, including paramilitary materials;	This activity does not included into the program
5	production of or trade in alcoholic beverages, excluding beer and wine <sup>10</sup> ;	This activity does not included into the program
6	production of or trade in tobacco <sup>11</sup> ;	This activity does not included into the program
7	gambling, casinos, and equivalent enterprises;	This activity does not included into the program
8	production of or trade in radioactive materials, <sup>11</sup> including nuclear reactors and components thereof;	This activity does not included into the program
9	production of, trade in, or use of unbonded asbestos fibers; <sup>12</sup>	This activity does not included into the program
10	commercial logging operations or the purchase of logging equipment for use in primary tropical moist forests or old-growth forests;	This activity does not included into the program
11	marine and coastal fishing practices, such as large-scale pelagic drift net fishing and fine mesh net fishing, harmful to vulnerable and protected species in large numbers and damaging to marine biodiversity and habitats; and	This activity does not included into the program
12	mining activities.	This activity does not included into the program

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 1. Forced labor means all work or services not voluntarily performed, that is, extracted from individuals under threat of force or penalty

2. Child labor means the employment of children whose age is below the host country's statutory minimum age of employment or employment of children in contravention of International Labor Organization Convention No. 138 "Minimum Age Convention" (www.ilo.org).

3. A list of pharmaceutical products subject to phaseouts or bans is available at <http://www.who.int>.

4. A list of pesticides and herbicides subject to phaseouts or bans is available at <http://www.pic.int>.

5. A list of the chemical compounds that react with and deplete stratospheric ozone resulting in the widely publicized ozone holes is listed in the Montreal Protocol, together with target reduction and phaseout dates. Information is available at <http://www.unep.org/ozone/montreal.shtml>.

6. A group of highly toxic chemicals, polychlorinated biphenyls are likely to be found in oil-filled electrical transformers, capacitors, and switchgear dating from 1950 to 1985.

7. A list of hazardous chemicals is available at <http://www.pic.int>.

8. A list is available at <http://www.cites.org>.

9. As defined by the Basel Convention; see <http://www.basel.int>.

10. This does not apply to project sponsors who are not substantially involved in these activities. Not substantially involved means that the activity concerned is ancillary to a project sponsor's primary operations.

11. This does not apply to the purchase of medical equipment, quality control (measurement) equipment, and any equipment for which ADB considers the radioactive source to be trivial and adequately shielded.

12. This does not apply to the purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.

Regarding compliance with social protection requirements, within the framework 2020 ADB Program, there were no cases of forced resettlement of local residents, land acquisition, and not a single person was injured during construction. For this, the ESMS formats were filled in, field visits were carried out.

#### **Part IV: ESMS activities**

As noted above, construction sites for the purpose of environmental monitoring were visited by the responsible persons for ESMS on a monthly basis. The number of such visits is given below.

**Table 7**

**Information on environmental monitoring conducted by specialists on ESMS of Khokimiyat within the framework 2020 Program**

#	District	Number of audits	Purpose of audit	Note
1	Pakhtachi	4	EMP implementation	
2	Jomboy	4	EMP implementation	
3	Taylok	3	EMP implementation	
4	Okdarya	4	EMP implementation	
5	Payarik	3	EMP implementation	
6	Samarkand	4	EMP implementation	
7	Urgut	4	EMP implementation	
	<b>TOTAL:</b>	<b>26</b>		

During the audit conducted in the project regions, no cases of non-compliance with the safeguards requirements were identified.

**Table 8**

**Information about cases of non-compliance with protective measures identified during environmental monitoring conducted by ESMS specialists within the framework 2020 Program**

#	District	Number of audits	Number of notifications issued by Khokimiyat	Announcement received by	What issues were addressed
1	Pakhtachi	4	—	—	—
2	Jomboy	4	—	—	—
3	Taylok	3	—	—	—
4	Okdarya	4	—	—	—
5	Payarik	3	—	—	—
6	Samarkand	4	—	—	—
7	Urgut	4	—	—	—

As for the complaints mechanism, in the khokimiyat of Samarkand region, such a mechanism exists and is operating. Thus, in the head office, a department exists to deal with complaints from legal entities and individuals. Also, there is a complaint book at every construction site.

In accordance with the Law of the Republic of Uzbekistan "On appeals of individuals and legal entities" received complaints or appeals must be considered by the khokimiyat within 15 days from the date of their receipt.

At the same time, persons affected by the project can contact the virtual reception of the Government of the Republic of Uzbekistan – [www.my.gov.uz](http://www.my.gov.uz) or go to the website of the khokimiyat at the link [www.samarkand.uz](http://www.samarkand.uz)

During the reporting period, the khokimiyat of Samarkand region did not receive complaints from persons affected by the Program for the construction of affordable housing on updated standard projects in rural areas in 2020.

**Table 9**

**Information on complaints received from persons affected by the Affordable Rural Housing Program 2020**

#	District	Number of complaints received	Type (in writing, orally, by phone)	Main topics for complaints	Number of complaints solved
1	Pakhtachi	–	–	–	–
2	Jomboy	–	–	–	–
3	Taylok	–	–	–	–
4	Okdarya	–	–	–	–
5	Payarik	–	–	–	–
6	Samarkand	–	–	–	–
7	Urgut	–	–	–	–

### Part V: Conclusion and Action Plan

Based on the results of the reporting period, the khokimiyat of Samarkand region fulfilled all the requirements for safeguards imposed by the terms of the ADB Loan Agreement signed as part of the second phase of the affordable housing construction program using the new results-based lending mechanism.

The khokimiyat of Samarkand region intends to take the following actions in 2021 to improve efficiency:

**Table 10**

**Action plan of the khokimiyat of Samarkand region for 2021**

Implementing Agencies	Issues	Actions required	Responsible	Period / dated
Khokimiyat of Samarkand region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Samarkand region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021

# **Annual report on monitoring of safeguards measures**

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## *For FI operations*

**Project number:** 3535-UZB

**Reporting period:** September - December 2020

**Full country name:** Republic of Uzbekistan

**Project Name:** Affordable Rural Housing Program - Result based lending with participation of Asian Development Bank

**Financed by:** Asian Development Bank

**Developed by:** ESMS Coordinator M. Boymurodov

**Name of the organization:** Khokimiyat of Surkhandarya region

**Country, city:** Republic of Uzbekistan, Termez

**Executing Agency:** Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan

**Approved by:** Deputy khokim of Surkhandarya region F.B. Mamanov

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## Part I. Introduction

The Program for the construction of affordable residential buildings based on updated standard projects in rural areas for 2017-2021 was initiated by the Government of the Republic of Uzbekistan in accordance with the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated February 3, 2017 "On additional measures for the implementation of the Program for the construction of affordable residential buildings on updated standard projects in rural areas for 2017-2021 with the participation of the Asian Development Bank".

In pursuance of the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated March 2, 2017 between the Republic of Uzbekistan and ADB signed Loan Agreement No.3535-UZB dated July 6, 2017 for the amount of \$ 500.0 million, which entered into force on July 18, 2017.

The Executing Agency (EA) is the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, which, through the Management and Monitoring Unit (MMU), manages and monitors this program. Regional khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions were identified as implementing agencies (IA).

In recent years, the country has taken consistent measures to improve the housing and living conditions of the population by expanding the scale of construction of affordable residential and apartment buildings, introducing new architectural and technical solutions into the industry. At the same time, further improvement of the housing conditions of the population necessitates the formation and development of a modern market system of mortgage lending for individuals, widespread involvement and full transition to housing construction by private contractors (hereinafter the **private sector**), as well as strengthening the targeting and transparency of the provision of state support to families in need of better living conditions.

In order to further expand the scale of mortgage lending, create conditions for the development of private sectors, introduce new mechanisms to provide support to people in need of better housing conditions, rational use of land resources and intensify the processes of urbanization of settlements. A new procedure is being introduced to provide the population with housing at the expense of mortgage loans based on market principles (hereinafter referred to as the **New Order**).

According to the Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019 "On additional measures to improve the mechanisms of mortgage lending", where the **CUSTOMER** determined the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions, as well as in the development of tender documentation, tenders and contracts with a contractor (**pilot scheme**).

In this way, residential buildings (multi-storey apartments) in accordance with the new order will be built at the expense of the own financial resources of the construction company (contractors), i.e. purchase of building materials, salaries for employees, etc. After the completion of the construction of a multi-storey building, the construction company offers ready-made apartments to the citizens of the Republic of Uzbekistan on the basis of mortgage lending.

Interested citizens of the Republic of Uzbekistan can obtain mortgage loans at the expense of ADB financing for ready-made apartments of their choice, which were built by the private sector within the framework of the Program.

In addition, a new procedure for the allocation of subsidies for citizens of the Republic of Uzbekistan No. 182 dated March 25, 2020 "On approval of the regulation on the procedure for paying subsidies to citizens for the purchase of housing" was approved by the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan.

This Procedure includes families with low incomes and in need of better housing conditions, women in difficult social situations, young people actively participating in the public life of the country and other groups of the population in need of assistance and improvement of housing conditions through social support and transparency of state support to receive subsidies

based on social needs for residential buildings in rural areas within the framework of the Program.

According to the new order (Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019) for 2020, 5 regions for the private sector were selected as a Pilot scheme within the framework of the Program.

In 2020 – 2,660 mortgage agreements should be concluded in the private sector, which were distributed as follows between five regional khokimiyats (pilot scheme):

- khokimiyat of Bukhara region - 500 preferential mortgage loans;
- khokimiyat of Namangan region - 462 preferential mortgage loans;
- khokimiyat of Samarkand region - 900 preferential mortgage loans;
- khokimiyat of Surkhandarya region - 96 preferential mortgage loans;
- khokimiyat of Ferghana region - 702 preferential mortgage loans.

At the same time, the distribution by districts, massifs and the number of houses looked as follows in the framework of the Program in 2020 for the Surkhandarya region:

**Table 1**

**Distribution of residential buildings in the Surkhandarya region for 2020 by districts and massifs within the framework of the Program with the participation of the ADB**

#	District	Massifs	Total number of houses	4-storey 24-room apartment		Multi-story houses	
				number of houses	number of apartments	number of houses	number of apartments
1	Oltinsoy	Ipok	60			2	60
2	Boysun	Rabot	36	1	36		
		<b>TOTAL:</b>	<b>96</b>	<b>1</b>	<b>36</b>	<b>2</b>	<b>60</b>

It should be noted that all residential buildings built under the updated standard projects within the framework of the 2020 Program fell under the category "B", which implies a low environmental impact, in accordance with Appendix 4 to the Loan Agreement – Program Execution.

Information about the results of the categorization of massifs is given in tabular form:

**Table 2**

**Results carried out by the khokimiyat of Surkhandarya region on the categorization of the massifs selected for the construction of affordable residential buildings within the framework of the Program with the participation of ADB in 2020**

#	District	Massifs	Project category on screening sheet on ecology	Project category on screening sheet on sociology	The presence of the conclusion of environmental expertise
1	Oltinsoy	Ipok	B	C	Yes
2	Boysun	Rabot	B	C	Yes

The selection of massifs for the construction of houses for 2020 was made through screening and categorization of sub-projects, in accordance with the requirements of the Loan Agreement (*Appendix 4 - Program Execution and Appendix 5 - List of Prohibited Activities Not Sponsored by ADB*) and in accordance with the Decree Of the President of the Republic of Uzbekistan No.UP-5886 "On additional measures to improve the mechanisms of mortgage

lending" dated November 28, 2019, where paragraph 9 stipulates that: "the choice of land plots for the construction of apartment buildings and engineering and transport communications is carried out by the Council of Ministers of the Republic of Karakalpakstan, khokimiyats of regions in agreement with the Urbanization Agency under the Ministry of Economy and Industry, the Ministry of Construction, the Centre for Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan, and the State Committee of the Republic of Uzbekistan for Land Resources, Geodesy, Cartography and the State cadastre", not included in the category of agricultural land and forest resources.

During the categorization, the screening process forms were filled out, in accordance with Appendix 2 of the ADB Environmental and Social Requirements Manual for the khokimiyat, in 3 stages: 1) environmental screening, 2) climate risk screening, and 3) screening for involuntary resettlement issues. This screening was carried out on site (site) and by studying the contour maps of the location of each massive.

After the start of construction work, the specialists of the district khokimiyat monitored (audited) the implementation of each sub-project to make sure that EMP was implemented in the field, in accordance with the requirements of the guidance for ESMS khokimiyat.

Information on the number of audits conducted by the specialists of the khokimiyat of Surkhandarya region is given in the following table:

**Table 3**

**Information about the number of audits conducted by the khokimiyat of the Surkhandarya region within the framework Program with participation of ADB in 2020**

#	District	Massifs	Start date of construction	Number of audits performed	By whom the audit was held *
1	Oltinsoy	Ipok	September	4	
2	Boysun	Rabot	September	4	
		<b>TOTAL:</b>		<b>8</b>	

\* - The audit was carried out by the specialists responsible for ESMS (production and technical departments) of the regional offices of the khokimiyat of the Surkhandarya region on the basis of the approved list of the working group.

### ***Implementation of reporting requirements for sub-projects***

The ESMS manual, developed by ADB for the khokimiyat of the Surkhandarya region, was agreed and approved in December 2020.

The ESMS coordinator and regional representatives of the khokimiyat, in accordance with the requirements of the ESMS manual, who are responsible for the implementation of ESMS requirements in the khokimiyat of Surkhandarya region, participated in an online seminar that was held from 21 to 22 October 2020 to discuss the effectiveness of the implementation of ESMS in the khokimiyat and relevance systems of protective measures. The online seminar discussed the implementation of ESMS in regional khokimiyats through technical supervision, including monitoring according to the Environmental Management Plan, carried out by specialists of the production and technical departments of the regional offices of the khokimiyat. Table 4 shows a list of employees of the khokimiyat of the Surkhandarya region, appointed responsible for the implementation of ESMS.

**Table 4**

**Information about the appointed coordinator and specialists ESMS in the field in the khokimiyat of the Surkhandarya region in the project regions (working group)**

#	District (full name)	Position	Full name	Order / decree on appointment
1	Termez city	ESMS coordinator	S. Akhedov	According to the approved list of the working group
2	Termez city	ESMS coordinator	M. Boymurodov	
3	Khokimiyat of Boysun district	Responsible for the ESMS	O. Azizov	
4	Khokimiyat of Oltinsoy district	Responsible for the ESMS	H. Khudoykulov	

## Part II. Environmental issues

In the reporting period, environmental monitoring in the project regions was carried out by the responsible specialists for ESMS. In accordance with the letter No. 06/19-GRP-11/09 on August 26, 2020 received from the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, the monitoring of each massive was carried out according to the submitted and approved form of the "Environmental Monitoring Plan".

According to ADB's requirements, starting from 2020, the "Environmental Management Plan" was included in the tender documentation and further into the contract agreement to identify cases of violation of ADB's environmental requirements and in accordance with the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 355 dated June 4, 2020.

During the monitoring carried out in 2020 in two massifs, no violations of environmental standards and the requirement of the ESMS were revealed, as well as no accidents or incidents at the construction sites.

**Table 5**

**Information on identified problems during environmental monitoring conducted by specialists of Khokimiyat on ESMS within the framework 2020 Program**

#	District	Number of audits	Identified discrepancies in:					
			Noise and vibration	Air pollution	Water pollution (visual)	Flora and fauna (visually)	Safety	Accidents
	<b>TOTAL:</b>	<b>8</b>						
1	Oltinsoy	4	no	no	no	no	no	no
2	Boysun	4	no	no	no	no	no	no

## Part III: Compliance with ADB's Social Security Requirements and List of Prohibited ADB Investment Activities

Prior to the signing of the contract for the construction of affordable housing for the updated standard projects in rural areas under the 2020 Program, the responsible specialists for ESMS assessed the sub-projects for compliance with the prohibited types of investment activities

listed in the ADB's Prohibited Investment Activities List (PIAL). During the assessment, not a single sub-project was identified that would correspond to the designated list.

**Table 6**

**ADB's Prohibited Investment Activities List**

#	ADB's Prohibited Investment Activities	Compliance of the program
1	Any activity classified under the A category of environmental impact (is equivalent to the 1-Class and 2-Class) and under the B category of environmental impact (3-Class and 4-Class), in case of classified as sensitive;	The activities under this program is classified as B-category of environment (3-Class and 4-Class)
2	production or activities involving harmful or exploitative forms of forced labor <sup>1</sup> or child labor <sup>2</sup> ;	This activity does not included into the program
3	production of or trade in any product or activity deemed illegal under host country laws <sup>3</sup> or regulations or international conventions and agreements or subject to international phaseouts or bans, such as (a) pharmaceuticals, pesticides, and herbicides, <sup>4</sup> (b) ozone-depleting substances, <sup>5</sup> (c) polychlorinated biphenyls <sup>6</sup> and other hazardous chemicals, <sup>7</sup> (d) wildlife or wildlife products regulated under the Convention on International Trade in Endangered Species of Wild Fauna and Flora, <sup>8</sup> and (e) transboundary trade in waste or waste products <sup>9</sup> ;	This activity does not included into the program
4	production of or trade in weapons and munitions, including paramilitary materials;	This activity does not included into the program
5	production of or trade in alcoholic beverages, excluding beer and wine <sup>10</sup> ;	This activity does not included into the program
6	production of or trade in tobacco <sup>11</sup> ;	This activity does not included into the program
7	gambling, casinos, and equivalent enterprises;	This activity does not included into the program
8	production of or trade in radioactive materials, <sup>11</sup> including nuclear reactors and components thereof;	This activity does not included into the program
9	production of, trade in, or use of unbonded asbestos fibers; <sup>12</sup>	This activity does not included into the program
10	commercial logging operations or the purchase of logging equipment for use in primary tropical moist forests or old-growth forests;	This activity does not included into the program
11	marine and coastal fishing practices, such as large-scale pelagic drift net fishing and fine mesh net fishing, harmful to vulnerable and protected species in large numbers and damaging to marine biodiversity and habitats; and	This activity does not included into the program
12	mining activities.	This activity does not included into the program

1. Forced labor means all work or services not voluntarily performed, that is, extracted from individuals under threat of force or penalty

2. Child labor means the employment of children whose age is below the host country's statutory minimum age of employment or employment of children in contravention of International Labor Organization Convention No. 138 "Minimum Age Convention" ([www.ilo.org](http://www.ilo.org)).

3. A list of pharmaceutical products subject to phaseouts or bans is available at <http://www.who.int>.

4. A list of pesticides and herbicides subject to phaseouts or bans is available at <http://www.pic.int>.

5. A list of the chemical compounds that react with and deplete stratospheric ozone resulting in the widely publicized ozone holes is listed in the Montreal Protocol, together with target reduction and phaseout dates. Information is available at <http://www.unep.org/ozone/montreal.shtml>.

6. A group of highly toxic chemicals, polychlorinated biphenyls are likely to be found in oil-filled electrical transformers, capacitors, and switchgear dating from 1950 to 1985.

7. A list of hazardous chemicals is available at <http://www.pic.int>.

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9. As defined by the Basel Convention; see <http://www.basel.int>.

10. This does not apply to project sponsors who are not substantially involved in these activities. Not substantially involved means that the activity concerned is ancillary to a project sponsor's primary operations.
11. This does not apply to the purchase of medical equipment, quality control (measurement) equipment, and any equipment for which ADB considers the radioactive source to be trivial and adequately shielded.
12. This does not apply to the purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.

Regarding compliance with social protection requirements, within the framework 2020 ADB Program, there were no cases of forced resettlement of local residents, land acquisition, and not a single person was injured during construction. For this, the ESMS formats were filled in, field visits were carried out.

#### **Part IV: ESMS activities**

As noted above, construction sites for the purpose of environmental monitoring were visited by the responsible persons for ESMS on a monthly basis. The number of such visits is given below.

**Table 7**

**Information on environmental monitoring conducted by specialists on ESMS of Khokimiyat within the framework 2020 Program**

#	District	Number of audits	Purpose of audit	Note
1	Oltinsoy	4	EMP implementation	
2	Boysun	4	EMP implementation	
	<b>TOTAL:</b>	<b>8</b>		

During the audit conducted in the project regions, no cases of non-compliance with the safeguards requirements were identified.

**Table 8**

**Information about cases of non-compliance with protective measures identified during environmental monitoring conducted by ESMS specialists within the framework 2020 Program**

#	District	Number of audits	Number of notifications issued by Khokimiyat	Announcement received by	What issues were addressed
1	Oltinsoy	4	—	—	—
2	Boysun	4	—	—	—

As for the complaints mechanism, in the khokimiyat of Surkhandarya region, such a mechanism exists and is operating. Thus, in the head office, a department exists to deal with complaints from legal entities and individuals. Also, there is a complaint book at every construction site.

In accordance with the Law of the Republic of Uzbekistan "On appeals of individuals and legal entities" received complaints or appeals must be considered by the khokimiyat within 15 days from the date of their receipt.

At the same time, persons affected by the project can contact the virtual reception of the Government of the Republic of Uzbekistan – [www.my.gov.uz](http://www.my.gov.uz) or go to the website of the khokimiyat at the link [www.surxondaryo.uz](http://www.surxondaryo.uz)

During the reporting period, the khokimiyat of Surkhandarya region did not receive complaints from persons affected by the Program for the construction of affordable housing on updated standard projects in rural areas in 2020.

**Table 9**

**Information on complaints received from persons affected by the Affordable Rural Housing Program 2020**

#	District	Number of complaints received	Type (in writing, orally, by phone)	Main topics for complaints	Number of complaints solved
1	Oltinsoy	—	—	—	—
2	Boysun	—	—	—	—

### Part V: Conclusion and Action Plan

Based on the results of the reporting period, the khokimiyat of Surkhandarya region fulfilled all the requirements for safeguards imposed by the terms of the ADB Loan Agreement signed as part of the second phase of the affordable housing construction program using the new results-based lending mechanism.

The khokimiyat of Surkhandarya region intends to take the following actions in 2021 to improve efficiency:

**Table 10**

**Action plan of the khokimiyat of Surkhandarya region for 2021**

Implementing Agencies	Issues	Actions required	Responsible	Period / dated
Khokimiyat of Surkhandarya region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Surkhandarya region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021

# **Annual report on monitoring of safeguards measures**

## ***For FI operations***

**Project number:** 3535-UZB

**Reporting period:** September - December 2020

**Full country name:** Republic of Uzbekistan

**Project Name:** Affordable Rural Housing Program - Result based lending with participation of Asian Development Bank

**Financed by:** Asian Development Bank

**Developed by:** ESMS Coordinator J. Abdullaev

**Name of the organization:** Khokimiyat of Namangan region

**Country, city:** Republic of Uzbekistan, Namangan

**Executing Agency:** Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan

**Approved by:** Deputy khokim of Namangan region S. Sultanov

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## Part I. Introduction

The Program for the construction of affordable residential buildings based on updated standard projects in rural areas for 2017-2021 was initiated by the Government of the Republic of Uzbekistan in accordance with the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated February 3, 2017 "On additional measures for the implementation of the Program for the construction of affordable residential buildings on updated standard projects in rural areas for 2017-2021 with the participation of the Asian Development Bank".

In pursuance of the Decree of the President of the Republic of Uzbekistan No.PP-2812 dated March 2, 2017 between the Republic of Uzbekistan and ADB signed Loan Agreement No.3535-UZB dated July 6, 2017 for the amount of \$ 500.0 million, which entered into force on July 18, 2017.

The Executing Agency (EA) is the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, which, through the Management and Monitoring Unit (MMU), manages and monitors this program. Regional khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions were identified as implementing agencies (IA).

In recent years, the country has taken consistent measures to improve the housing and living conditions of the population by expanding the scale of construction of affordable residential and apartment buildings, introducing new architectural and technical solutions into the industry. At the same time, further improvement of the housing conditions of the population necessitates the formation and development of a modern market system of mortgage lending for individuals, widespread involvement and full transition to housing construction by private contractors (hereinafter the **private sector**), as well as strengthening the targeting and transparency of the provision of state support to families in need of better living conditions.

In order to further expand the scale of mortgage lending, create conditions for the development of private sectors, introduce new mechanisms to provide support to people in need of better housing conditions, rational use of land resources and intensify the processes of urbanization of settlements. A new procedure is being introduced to provide the population with housing at the expense of mortgage loans based on market principles (hereinafter referred to as the **New Order**).

According to the Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019 "On additional measures to improve the mechanisms of mortgage lending", where the **CUSTOMER** determined the khokimiyats of Bukhara, Namangan, Samarkand, Surkhandarya and Ferghana regions, as well as in the development of tender documentation, tenders and contracts with a contractor (**pilot scheme**).

In this way, residential buildings (multi-storey apartments) in accordance with the new order will be built at the expense of the own financial resources of the construction company (contractors), i.e. purchase of building materials, salaries for employees, etc. After the completion of the construction of a multi-storey building, the construction company offers ready-made apartments to the citizens of the Republic of Uzbekistan on the basis of mortgage lending.

Interested citizens of the Republic of Uzbekistan can obtain mortgage loans at the expense of ADB financing for ready-made apartments of their choice, which were built by the private sector within the framework of the Program.

In addition, a new procedure for the allocation of subsidies for citizens of the Republic of Uzbekistan No. 182 dated March 25, 2020 "On approval of the regulation on the procedure for paying subsidies to citizens for the purchase of housing" was approved by the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan.

This Procedure includes families with low incomes and in need of better housing conditions, women in difficult social situations, young people actively participating in the public life of the country and other groups of the population in need of assistance and improvement of housing conditions through social support and transparency of state support to receive

subsidies based on social needs for residential buildings in rural areas within the framework of the Program.

According to the new order (Decree of the President of the Republic of Uzbekistan No.UP-5886 dated November 28, 2019) for 2020, 5 regions for the private sector were selected as a Pilot scheme within the framework of the Program.

In 2020 – 2,660 mortgage agreements should be concluded in the private sector, which were distributed as follows between five regional khokimiyats (pilot scheme):

- khokimiyat of Bukhara region - 500 preferential mortgage loans;
- khokimiyat of Namangan region - 462 preferential mortgage loans;
- khokimiyat of Samarkand region - 900 preferential mortgage loans;
- khokimiyat of Surkhandarya region - 96 preferential mortgage loans;
- khokimiyat of Ferghana region - 702 preferential mortgage loans.

At the same time, the distribution by districts, massifs and the number of houses looked as follows in the framework of the Program in 2020 for the Namangan region:

**Table 1**

**Distribution of residential buildings in the Namangan region for 2020 by districts and massifs within the framework of the Program with the participation of the ADB**

#	District	Massifs	Total number of houses	4-storey 24-room apartment		Multi-story houses	
				number of houses	number of apartments	number of houses	number of apartments
1	Kosonsoy	Takhtakuprik	30			1	30
2	Mingbulok	Mustakillik	48	2	48		
3	Namangan	Kichik Toshbulok	60			1	60
4	Norin	Buzilmas	48			2	48
5	Pop	Mirishkor	48	2	48		
6	Turakurgon	Chustkuprik	50			1	50
7	Uychi	Hurriyat	48	2	48		
8	Uchkurgon	Sanoat	40			1	40
9	Chortok	Dustlik	30			1	30
10	Chust	Sadacha	30			1	30
11	Yangikurgon	Obod	30			1	30
		<b>TOTAL:</b>	<b>462</b>	<b>6</b>	<b>144</b>	<b>9</b>	<b>318</b>

It should be noted that all residential buildings built under the updated standard projects within the framework of the 2020 Program fell under the category "B", which implies a low environmental impact, in accordance with Appendix 4 to the Loan Agreement – Program Execution.

Information about the results of the categorization of massifs is given in tabular form:

**Table 2**

**Results carried out by the khokimiyat of Namangan region on the categorization of the massifs selected for the construction of affordable residential buildings within the framework of the Program with the participation of ADB in 2020**

#	District	Massifs	Project category on screening sheet on ecology	Project category on screening sheet on sociology	The presence of the conclusion of environmental expertise
1	Kosonsoy	Takhtakuprik	B	C	YES
2	Mingbulok	Mustakillik	B	C	YES
3	Namangan	Kichik Toshbulok	B	C	YES
4	Norin	Buzilmas	B	C	YES
5	Pop	Mirishkor	B	C	YES
6	Turakurgon	Chustkuprik	B	C	YES
7	Uychi	Hurriyat	B	C	YES
8	Uchkurgon	Sanoat	B	C	YES
9	Chortok	Dustlik	B	C	YES
10	Chust	Sadacha	B	C	YES
11	Yangikurgon	Obod	B	C	YES

The selection of massifs for the construction of houses for 2020 was made through screening and categorization of sub-projects, in accordance with the requirements of the Loan Agreement (*Appendix 4 - Program Execution and Appendix 5 - List of Prohibited Activities Not Sponsored by ADB*) and in accordance with the Decree Of the President of the Republic of Uzbekistan No.UP-5886 "On additional measures to improve the mechanisms of mortgage lending" dated November 28, 2019, where paragraph 9 stipulates that: "the choice of land plots for the construction of apartment buildings and engineering and transport communications is carried out by the Council of Ministers of the Republic of Karakalpakstan, khokimiyats of regions in agreement with the Urbanization Agency under the Ministry of Economy and Industry, the Ministry of Construction, the Centre for Hydrometeorological Service under the Cabinet of Ministers of the Republic of Uzbekistan, and the State Committee of the Republic of Uzbekistan for Land Resources, Geodesy, Cartography and the State cadastre", not included in the category of agricultural land and forest resources.

During the categorization, the screening process forms were filled out, in accordance with Appendix 2 of the ADB Environmental and Social Requirements Manual for the khokimiyat, in 3 stages: 1) environmental screening, 2) climate risk screening, and 3) screening for involuntary resettlement issues. This screening was carried out on site (site) and by studying the contour maps of the location of each massive.

After the start of construction work, the specialists of the district khokimiyat monitored (audited) the implementation of each sub-project to make sure that EMP was implemented in the field, in accordance with the requirements of the guidance for ESMS khokimiyat.

Information on the number of audits conducted by the specialists of the khokimiyat of Namangan region is given in the following table:

**Table 3**

**Information about the number of audits conducted by the khokimiyat of the Namangan region within the framework Program with participation of ADB in 2020**

#	District	Massifs	Start date of construction	Number of audits performed	By whom the audit was held *
1	Kosonsoy	Takhtakuprik	September	4	
2	Mingbulok	Mustakillik	September	4	
3	Namangan	Kichik Toshbulok	September	4	
4	Norin	Buzilmas	September	4	
5	Pop	Mirishkor	September	4	
6	Turakurgon	Chustkuprik	September	4	
7	Uychi	Hurriyat	September	4	
8	Uchkurgon	Sanoat	September	4	
9	Chortok	Dustlik	September	4	
10	Chust	Sadacha	September	4	
11	Yangikurgon	Obod	September	4	
			<b>TOTAL:</b>	<b>44</b>	

\* - The audit was carried out by the specialists responsible for ESMS (production and technical departments) of the regional offices of the khokimiyat of the Namangan region on the basis of the approved list of the working group.

#### ***Implementation of reporting requirements for sub-projects***

The ESMS manual, developed by ADB for the khokimiyat of the Namangan region, was agreed and approved in December 2020.

The ESMS coordinator and regional representatives of the khokimiyat, in accordance with the requirements of the ESMS manual, who are responsible for the implementation of ESMS requirements in the khokimiyat of Namangan region, participated in an online seminar that was held from 21 to 22 October 2020 to discuss the effectiveness of the implementation of ESMS in the khokimiyat and relevance systems of protective measures. The online seminar discussed the implementation of ESMS in regional khokimiyats through technical supervision, including monitoring according to the Environmental Management Plan, carried out by specialists of the production and technical departments of the regional offices of the khokimiyat. Table 4 shows a list of employees of the khokimiyat of the Namangan region, appointed responsible for the implementation of ESMS.

**Table 4**

**Information about the appointed coordinator and specialists ESMS in the field in the khokimiyat of the Namangan region in the project regions (working group)**

#	District (full name)	Position	Full name	Order / decree on appointment
1	Namangan city	ESMS coordinator	J. Abdullaev	According to the approved list of the working group
2	Khokimiyat of Mingbulok district	Chief specialist of the khokimiyat and responsible for the ESMS	Fozilov Rustamjon	
3	Khokimiyat of Kosonsoy district	Chief specialist of the khokimiyat and responsible for the ESMS	Komiljon Mamazhonov	
4	Khokimiyat of Namangan district	Chief specialist of the khokimiyat and responsible for the ESMS	Akbarov Jamshidbek	
5	Khokimiyat of Norin district	Chief specialist of the khokimiyat and responsible for the ESMS	Aripov Ahadjon	
6	Khokimiyat of Pop	Chief specialist of the khokimiyat and	Ermatorov Aziz	

	district	responsible for the ESMS	
7	Khokimiyat of Turakurgon district	Chief specialist of the khokimiyat and responsible for the ESMS	Turaev Akmaljon
8	Khokimiyat of Uychi district	Chief specialist of the khokimiyat and responsible for the ESMS	Urinov Bakhtiyor
9	Khokimiyat of Uchkurgon district	Chief specialist of the khokimiyat and responsible for the ESMS	Atakhanov Tohirjon
10	Khokimiyat of Chortok district	Chief specialist of the khokimiyat and responsible for the ESMS	Abrollov Ibrokhim
11	Khokimiyat of Chust district	Chief specialist of the khokimiyat and responsible for the ESMS	Boltaev Bakhodir
12	Khokimiyat of Yangiurgon district	Chief specialist of the khokimiyat and responsible for the ESMS	Gofurjonov Ilkhomon

## Part II. Environmental issues

In the reporting period, environmental monitoring in the project regions was carried out by the responsible specialists for ESMS. In accordance with the letter No. 06/19-GRP-11/09 on August 26, 2020 received from the Ministry of Economic Development and Poverty Reduction of the Republic of Uzbekistan, the monitoring of each massive was carried out according to the submitted and approved form of the "Environmental Monitoring Plan".

According to ADB's requirements, starting from 2020, the "Environmental Management Plan" was included in the tender documentation and further into the contract agreement to identify cases of violation of ADB's environmental requirements and in accordance with the Resolution of the Cabinet of Ministers of the Republic of Uzbekistan No. 355 dated June 4, 2020.

During the monitoring carried out in 2020, no violations of environmental standards were revealed. Verbal instructions were given to contractors (construction companies) in some construction sites that some workers lack uniforms (overalls) and normal conditions for eating. In the next visit, the identified shortcomings were eliminated (within 1-2 weeks) by contractors (construction companies), and therefore there was no need to register them.

There were no accidents or incidents at the construction sites.

**Table 5**

**Information on identified problems during environmental monitoring conducted by specialists of khokimiyat on ESMS within the framework 2020 Program**

#	District	Number of audits	Identified discrepancies in:					
			Noise and vibration	Air pollution	Water pollution (visual)	Flora and fauna (visually)	Safety	Accidents
	<b>TOTAL:</b>	<b>44</b>						
1	Kosonsoy	4	–	–	–	–	–	–
2	Mingbulok	4	–	–	–	–	–	–
3	Namangan	4	–	–	–	–	–	–
4	Norin	4	–	–	–	–	–	–
5	Pop	4	–	–	–	–	–	–
6	Turakurgon	4	–	–	–	–	–	–

7	Uychi	4	–	–	–	–	–	–
8	Uchkurgon	4	–	–	–	–	–	–
9	Chortok	4	–	–	–	–	–	–
10	Chust	4	–	–	–	–	–	–
11	Yangikurgon	4	–	–	–	–	–	–

### Part III: Compliance with ADB's Social Security Requirements and List of Prohibited ADB Investment Activities

Prior to the signing of the contract for the construction of affordable housing for the updated standard projects in rural areas under the 2020 Program, the responsible specialists for ESMS assessed the sub-projects for compliance with the prohibited types of investment activities listed in the ADB's Prohibited Investment Activities List (PIAL). During the assessment, not a single sub-project was identified that would correspond to the designated list.

**Table 6**

#### ADB's Prohibited Investment Activities List

#	ADB's Prohibited Investment Activities	Compliance of the program
1	Any activity classified under the A category of environmental impact (is equivalent to the 1-Class and 2-Class) and under the B category of environmental impact (3-Class and 4-Class), in case of classified as sensitive;	The activities under this program is classified as B-category of environment (3-Class and 4-Class)
2	production or activities involving harmful or exploitative forms of forced labor <sup>1</sup> or child labor <sup>2</sup> ;	This activity does not included into the program
3	production of or trade in any product or activity deemed illegal under host country laws <sup>3</sup> or regulations or international conventions and agreements or subject to international phaseouts or bans, such as (a) pharmaceuticals, pesticides, and herbicides, <sup>4</sup> (b) ozone-depleting substances, <sup>5</sup> (c) polychlorinated biphenyls <sup>6</sup> and other hazardous chemicals, <sup>7</sup> (d) wildlife or wildlife products regulated under the Convention on International Trade in Endangered Species of Wild Fauna and Flora, <sup>8</sup> and (e) transboundary trade in waste or waste products <sup>9</sup> ;	This activity does not included into the program
4	production of or trade in weapons and munitions, including paramilitary materials;	This activity does not included into the program
5	production of or trade in alcoholic beverages, excluding beer and wine <sup>10</sup> ;	This activity does not included into the program
6	production of or trade in tobacco <sup>11</sup> ;	This activity does not included into the program
7	gambling, casinos, and equivalent enterprises;	This activity does not included into the program
8	production of or trade in radioactive materials, <sup>11</sup> including nuclear reactors and components thereof;	This activity does not included into the program
9	production of, trade in, or use of unbonded asbestos fibers; <sup>12</sup>	This activity does not included into the program
10	commercial logging operations or the purchase of logging equipment for use in primary tropical moist forests or old-growth forests;	This activity does not included into the program
11	marine and coastal fishing practices, such as large-scale pelagic drift net fishing and fine mesh net fishing, harmful to vulnerable and protected species in large numbers and damaging to marine biodiversity and habitats; and	This activity does not included into the program
12	mining activities.	This activity does not included into the program

1. Forced labor means all work or services not voluntarily performed, that is, extracted from individuals under threat of force or penalty
2. Child labor means the employment of children whose age is below the host country's statutory minimum age of employment or employment of children in contravention of International Labor Organization Convention No. 138 "Minimum Age Convention" ([www.ilo.org](http://www.ilo.org)).
3. A list of pharmaceutical products subject to phaseouts or bans is available at <http://www.who.int>.
4. A list of pesticides and herbicides subject to phaseouts or bans is available at <http://www.pic.int>.
5. A list of the chemical compounds that react with and deplete stratospheric ozone resulting in the widely publicized ozone holes is listed in the Montreal Protocol, together with target reduction and phaseout dates. Information is available at <http://www.unep.org/ozone/montreal.shtml>.
6. A group of highly toxic chemicals, polychlorinated biphenyls are likely to be found in oil-filled electrical transformers, capacitors, and switchgear dating from 1950 to 1985.
7. A list of hazardous chemicals is available at <http://www.pic.int>.
8. A list is available at <http://www.cites.org>.
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10. This does not apply to project sponsors who are not substantially involved in these activities. Not substantially involved means that the activity concerned is ancillary to a project sponsor's primary operations.
11. This does not apply to the purchase of medical equipment, quality control (measurement) equipment, and any equipment for which ADB considers the radioactive source to be trivial and adequately shielded.
12. This does not apply to the purchase and use of bonded asbestos cement sheeting where the asbestos content is less than 20%.

Regarding compliance with social protection requirements, within the framework 2020 ADB Program, there were no cases of forced resettlement of local residents, land acquisition, and not a single person was injured during construction. For this, the ESMS formats were filled in, field visits were carried out.

#### Part IV: ESMS activities

As noted above, construction sites for the purpose of environmental monitoring were visited by the responsible persons for ESMS on a monthly basis. The number of such visits is given below.

**Table 7**

**Information on environmental monitoring conducted by specialists on ESMS of Khokimiyat within the framework 2020 Program**

#	District	Number of audits	Purpose of audit	Note
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6	Turakurgon	4	EMP implementation	
7	Uychi	4	EMP implementation	
8	Uchkurgon	4	EMP implementation	
9	Chortok	4	EMP implementation	
10	Chust	4	EMP implementation	
11	Yangikurgon	4	EMP implementation	
	<b>TOTAL:</b>	<b>44</b>		

During the audit conducted in the project regions, no cases of non-compliance with the safeguards requirements were identified.

**Table 8**

**Information about cases of non-compliance with protective measures identified during environmental monitoring conducted by ESMS specialists within the framework 2020 Program**

#	District	Number of audits	Number of notifications issued by Khokimiyat	Announcement received by	What issues were addressed
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4	Norin	4	—	—	—
5	Pop	4	—	—	—
6	Turakurgon	4	—	—	—
7	Uychi	4	—	—	—
8	Uchkurgon	4	—	—	—
9	Chortok	4	—	—	—
10	Chust	4	—	—	—
11	Yangikurgon	4	—	—	—

As for the complaints mechanism, in the khokimiyat of Namangan region, such a mechanism exists and is operating. Thus, in the head office, a department exists to deal with complaints from legal entities and individuals. Also, there is a complaint book at every construction site.

In accordance with the Law of the Republic of Uzbekistan "On appeals of individuals and legal entities" received complaints or appeals must be considered by the khokimiyat within 15 days from the date of their receipt.

At the same time, persons affected by the project can contact the virtual reception of the Government of the Republic of Uzbekistan – [www.my.gov.uz](http://www.my.gov.uz) or go to the website of the khokimiyat at the link [www.namangan.uz](http://www.namangan.uz)

During the reporting period, the khokimiyat of Namangan region did not receive complaints from persons affected by the Program for the construction of affordable housing on updated standard projects in rural areas in 2020.

**Table 9**

**Information on complaints received from persons affected by the Affordable Rural Housing Program 2020**

#	District	Number of complaints received	Type (in writing, orally, by phone)	Main topics for complaints	Number of complaints solved
1	Kosonsoy	—	—	—	—
2	Mingbulok	—	—	—	—
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5	Pop	—	—	—	—
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7	Uychi	—	—	—	—
8	Uchkurgon	—	—	—	—
9	Chortok	—	—	—	—
10	Chust	—	—	—	—
11	Yangikurgon	—	—	—	—

## Part V: Conclusion and Action Plan

Based on the results of the reporting period, the khokimiyat of Namangan region fulfilled all the requirements for safeguards imposed by the terms of the ADB Loan Agreement signed as part of the second phase of the affordable housing construction program using the new results-based lending mechanism.

During the period from 28 to 29 September 2020, the ADB Review Mission (auditing company "AARC") verified DLI-4 compliance with climate change requirements in the region in accordance with the requirements of Loan Agreement No.3535-UZB dated July 6, 2017. During the ADB Review Mission employees of the khokimiyat of Namangan region took part and provided assistance.

The khokimiyat of Namangan region intends to take the following actions in 2021 to improve efficiency:

**Table 10**

**Action plan of the khokimiyat of Namangan region for 2021**

Implementing Agencies	Issues	Actions required	Responsible	Period / dated
Khokimiyat of Namangan region	Publication of the annual report of the khokimiyat for 2020 on the khokimiyat website	After approval of the submitted annual report of the khokimiyat on the ESMS by the ADB, ensure the publication of the document on the website of the khokimiyat	Coordinator ESMS	1 <sup>st</sup> quarter of 2021
Khokimiyat of Namangan region	As necessary, conducting Seminars for those responsible for the ESMS in conjunction with MMU in the region / districts	Develop presentation materials and schedule seminars	Coordinator ESMS and MMU	During 2021

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**(ОРИК) для программы доступного жилья**  
**в сельской местности**

*(частный сектор)*



**Название регионального органа:** Бухарское областное управление по гидрометеорологии.

**Бухара - 2020 г.**

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**ОТЧЕТ**  
по оценке рисков изменения климата (ОРИК) для программы доступного жилья в сельской местности  
в Бухарской области

**Раздел 1. Введение.**

**Название проекта:** Строительство сельских домов Бухарской области в Бухарском, Пешкунском, Караулбазарском, Шафирканском, Каракульском, Джандарском, Рамитанском, Каганском и Гиждуванском районах.

**1.1. Дата проведения обследования**

Обследование проводилось в период с 20.06.2020г. по 01.07.2020 г.

В обследовании приняли участие начальник Бухарского УГМ – Хусаинов М.А. и техник агрометеоролог Бухарского УГМ - Мухиддинова Р.Ф.

**1.2. Географическое и административное расположение объектов**

№	Местность	Район	Массив	Площадь (га)	Кол-во квартир	Ближайшая метеостанция	Расстояние от метеостанции до массива (км)	Расположение массива		Координаты массива
								Рядом с существующим населенным пунктом	На не освоенной территории	
1	Равнина	Бухараский	Работак	0,06	26	АМСГ Бухара	10км	Да	-	39°49'47.30"C 64°25'36.50"B
2		Бухараский	Зарманак	0,17	54	АМСГ Бухара	10км	Да	-	39°44'24.5"C 64°23'54.7"B
3		Рамитанский	Бабур	0,24	60	АМСГ Бухара	20км	Да	-	39°55'57.60"C 64°22'12.20"B
4		Караулбазарский	Навбахор	0,5	30	АМСГ Бухара	42км	Да	-	39°29'33.40"C 64°49'12.50"B
5		Каракульский	Пахтакор	0,34	90	МС Каракуль	7 км	Да	-	39°31'50.7"C 63°50'09.1"B
6		Гиждуванский	Ф.Хаджаев	0,30	90	АМСГ Бухара	40км	Да	-	40° 6'28.30"C 64°40'28.10"B
7		Жандарский	Навгади	0,05	30	АМСГ Бухара	30км	Да	-	39°44'28.50"C 64°10'16.00"B
8		Пешкунский	Чекирчи	0,2	30	АМСГ Бухара	30км	Да	-	40°01'53.5"C 64°23'41.6"B
9		Шафирканский	Бобоата	0,1	30	АМСГ Бухара	37км	Да	-	40° 6'27.20"C 64°30'25.00"B
10		Каганский	Сухор	0,30	60	АМСГ Бухара	8км	Да	-	39°45'44.0"C 64°34'04.5"B

Рис. 1. Географическое расположение массивов в Бухарской области

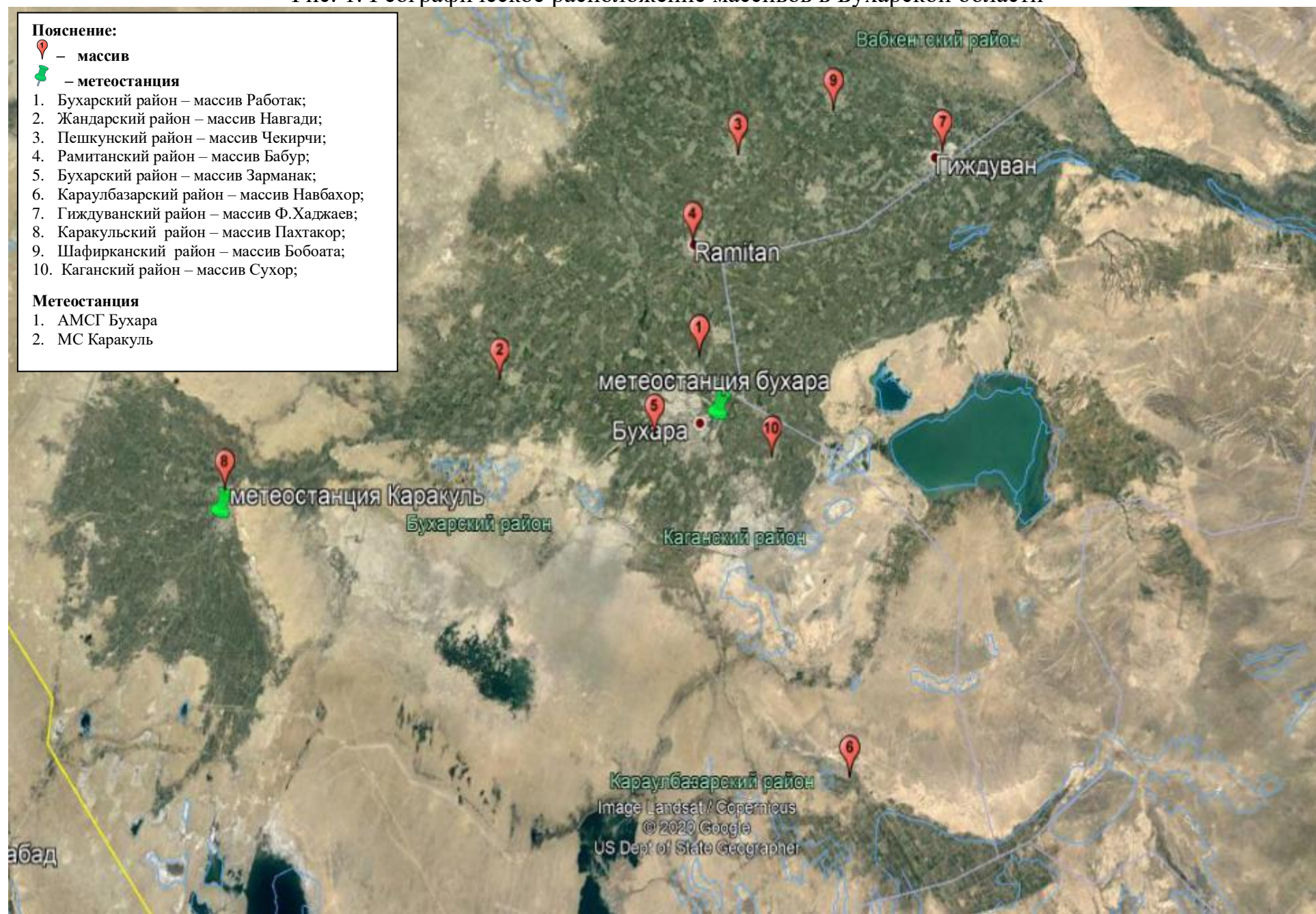
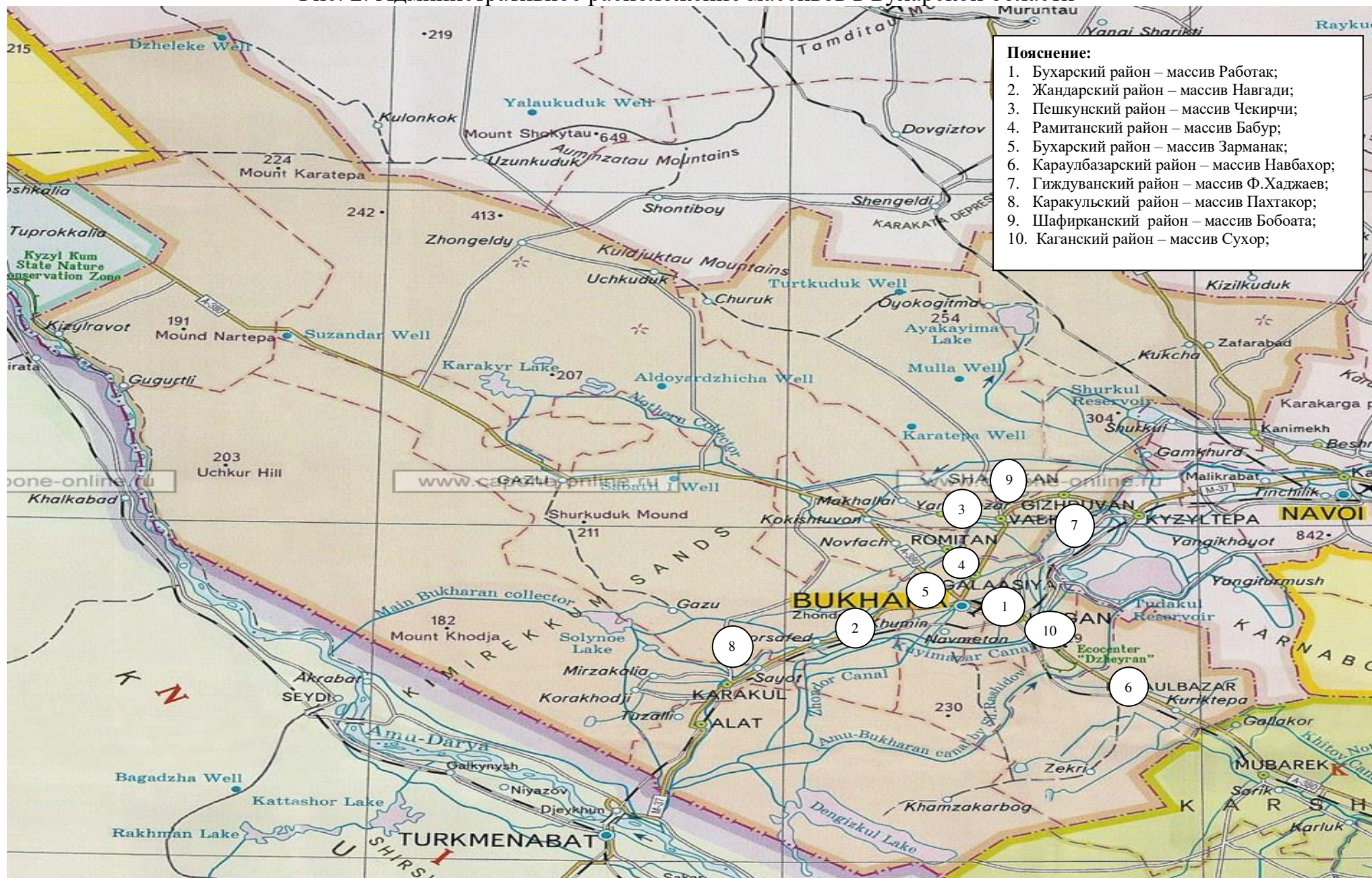


Рис. 2. Административное расположение массивов в Бухарской области



**Раздел 2. Исследование опасностей.** Исследование на наличие рисков проявления опасных гидрометеорологических явлений

**2.1. Гидрологические и снеголавинные явления**

№	Район	Массив	Гидрологические явление		Снеголавинные явления
			Селепаводковые явления	Подтопления / затопления	
1	Бухарский	Работак	не зарегистрированы	не зарегистрированы	Риск отсутствует
2	Пешкунский	Чекирчи	не зарегистрированы	не зарегистрированы	Риск отсутствует
3	Рамитанский	Бабур	не зарегистрированы	не зарегистрированы	Риск отсутствует
4	Караулбазарский	Навбахор	не зарегистрированы	не зарегистрированы	Риск отсутствует
5	Каракульский	Пахтакор	не зарегистрированы	не зарегистрированы	Риск отсутствует
6	Гиждуванский	Ф.Хаджаев	не зарегистрированы	не зарегистрированы	Риск отсутствует
7	Жандарский	Навгади	не зарегистрированы	не зарегистрированы	Риск отсутствует
8	Бухаский	Зарманак	не зарегистрированы	не зарегистрированы	Риск отсутствует
9	Шафирканский	Бобоата	не зарегистрированы	не зарегистрированы	Риск отсутствует
10	Каганский	Сухор	не зарегистрированы	не зарегистрированы	Риск отсутствует

## 2.2. Климатическая информация по данным метеостанции Бухара за период 1981-2010 годы

(максимальные и минимальные значения метеопараметров предоставлены за период наблюдений)

Параметры	Месяцы												Год
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
Средняя месячная температура воздуха, °C	1,4	4,0	9,7	17,0	22,8	28,1	29,5	27,2	21,2	14,2	8,1	2,8	15,5
Абсолютный максимум температуры воздуха за период 1921-2017 гг., °C	24,8	28,5	33,1	38,1	42,8	46,2	46,0	44,6	42,4	37,8	31,7	26,4	46,2
Абсолютный минимум температуры воздуха за период 1921-2017 гг., °C	-23,5	-24,5	-18,3	-5,9	-0,5	6,7	12,0	7,0	-1,8	-8,4	-19,6	-24,9	-24,9
Среднее месячное количество осадков, мм	19,1	18,9	29,5	20,1	12,4	1,8	0,7	0,2	1,0	2,0	12,0	17,3	135,0
Среднее месячное число дней с осадками	10	10	10	8	7	2	1	1	1	4	7	9	70
Максимальное суточное количество осадков за период наблюдений 1921-2017 гг, мм	24,9	23,0	42,4	36,3	37,3	31,6	11,9	8,2	9,8	12,6	26,5	23,1	42,4
Максимальная высота снега за период наблюдений 1922-2017 гг, см	20	16	13								6	15	20
Средняя скорость ветра за месяц, м/сек	3,2	3,5	3,7	3,8	3,9	4,1	4,4	4,4	3,8	3,0	2,9	3,1	3,7
Абсолютный максимум скорости ветра, м/сек	20	21	24	25	27	27	23	25	20	21	21	21	27

Географическое расположение метеостанции Бухара: 39°46' северной широты, 64°28' восточной долготы.

Метеорологические данные метеостанции показывают, что в районе наблюдаются сильные ветры 27 м/с, заморозки до -24,9 °C, ливневые осадки до 42.4 мм, высота снега до 20 см.

## 2.2. Климатическая информация по данным метеостанции Каракуль за период 1981-2010 годы

(максимальные и минимальные значения метеопараметров предоставлены за период наблюдений)

Параметры	Месяцы												Год
	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	
Средняя месячная температура воздуха, °С	1,8	4,3	10,0	17,4	23,1	28,2	29,7	27,6	21,5	14,5	8,5	3,2	<b>15,8</b>
Абсолютный максимум температуры воздуха за период 1947-2017 гг., °С	23,6	27,8	33,6	38,2	42,3	44,5	<b>46,4</b>	43,5	42,0	36,6	31,8	24,5	<b>46,4</b>
Абсолютный минимум температуры воздуха за период 1947-2017 гг., °С	-23,5	<b>-24,2</b>	-18,7	-5,5	-0,5	7,6	11,2	9,1	-1,2	-8,7	-17,4	-21,8	<b>-24,2</b>
Среднее месячное количество осадков, мм	18,2	18,3	29,5	28,9	11,1	1,5	1,7	0,3	0,7	2,3	11,0	17,3	<b>140,8</b>
Среднее месячное число дней с осадками	8	8	9	8	6	2	1	1	1	3	6	8	<b>61</b>
Максимальное суточное количество осадков за период наблюдений 1961-2017 гг, мм	19,5	27,7	<b>43,2</b>	26,2	35,9	35,6	16,9	11,3	9,1	9,3	15,2	25,8	<b>43,2</b>
Максимальная высота снега за период наблюдений 1981-2017 гг, см	<b>15</b>	8										8	<b>15</b>
Средняя скорость ветра за месяц, м/сек	2,8	3,1	3,2	3,2	3,2	3,4	3,6	3,5	3,0	2,5	2,6	2,7	<b>3,1</b>
Абсолютный максимум скорости ветра, м/сек	24	22	24	34	<b>40</b>	28	23	24	20	28	20	20	<b>40</b>

Географическое расположение метеостанции Каракуль: 39°29' северной широты, 63°50' восточной долготы.

Метеорологические данные метеостанции показывают, что в районе наблюдаются сильные ветры до 40 м/с, заморозки до -24,2°С, ливневые осадки 43,2 мм и высота снежного покрова до 15 см.

### Раздел 3. Посещение участка и опрос местного населения

#### 3.1. Результаты проведенного опроса местного населения

Опрос проведен начальником Бухарского управления по гидрометеорологии Хусаинов М. А. и техник – агрометеоролог Бухарского управления по гидрометеорологии Мухиддинова Р.Ф. в период с 20.06.2020 г. по 01.07.2020 г.

№	Массив	Кол-во участников опроса (человек)	Результаты опроса по проявлению опасных гидрометеорологических явлений (рисков) на территории и (или) вблизи массивов				Примечание
			Сильный ветер	Ливневые осадки	Сели / паводки	Подтопления / затопления	
1	Работак	3	Нет	Да	Нет	Нет	-
2	Чекирчи	2	Нет	Да	Нет	Нет	-
3	Бабур	3	Нет	Да	Нет	Нет	-
4	Навбахор	3	Нет	Да	Нет	Нет	-
5	Пахтакор	2	Да	Да	Нет	Нет	-
6	Ф.Хаджаев	3	Нет	Да	Нет	Нет	-
7	Навгади	2	Да	Да	Нет	Нет	-
8	Зарманак	4	Да	Да	Нет	Нет	-
9	Бобоата	2	Нет	Да	Нет	Нет	-
10	Сухор	3	Нет	Да	Нет	Нет	-

## Раздел 4. Изменения климата в Бухарской области

### 4.1. Наблюдаемые тенденции изменения климата

Тенденции к потеплению проявляются по всем станциям Республики, имеющим длительные ряды наблюдений. Практически на всех станциях Узбекистана отмеченное повышение среднегодовых температур воздуха превысило естественную изменчивость и является статистически значимым.



Рисунок 4.1. Изменение среднегодовой температуры воздуха по данным метеостанции Бухара



Рисунок 4.2. Изменение среднегодовой температуры воздуха по данным метеостанции Каракуль

Проведенный анализ изменения среднегодовой температуры воздуха по станциям Бухара и Каракуль показывает тренды роста среднегодовой температуры воздуха за наблюдаемый период.

#### 4.2.2. Изменение количества осадков



Рисунок 4.3. Изменение годового количества осадков по данным метеостанции Бухара



Рисунок 4.4. Изменение годового количества осадков по данным метеостанции Каракуль

Оценка изменения сумм годового количества осадков по данным станций Бухара и Каракуль показывают, что тенденций изменения годового количества осадков на данных станциях не наблюдается.

Таблица 4.1. Рассчитанные в соответствии со сценариями эмиссии ожидаемые изменения среднегодовых температур воздуха и годовых сумм осадков относительно базового периода (1961-1990 годы)

Районы Узбекистана	B2						A2					
	Температура, °C			Осадки, %			Температура, °C			Осадки, %		
	2030	2050	2080	2030	2050	2080	2030	2050	2080	2030	2050	2080
Центральные пустынные равнины (Навоийская и Бухарская области)	1,6	2,3	3,5	104	105	104	1,2	2,3	4,2	114	116	110

(Источник: Второе национальное сообщение РУз по РКИК ООН)

По сценариям изменения климата A2, B2 за счет ожидаемого роста температуры воздуха увеличится доля жидких осадков

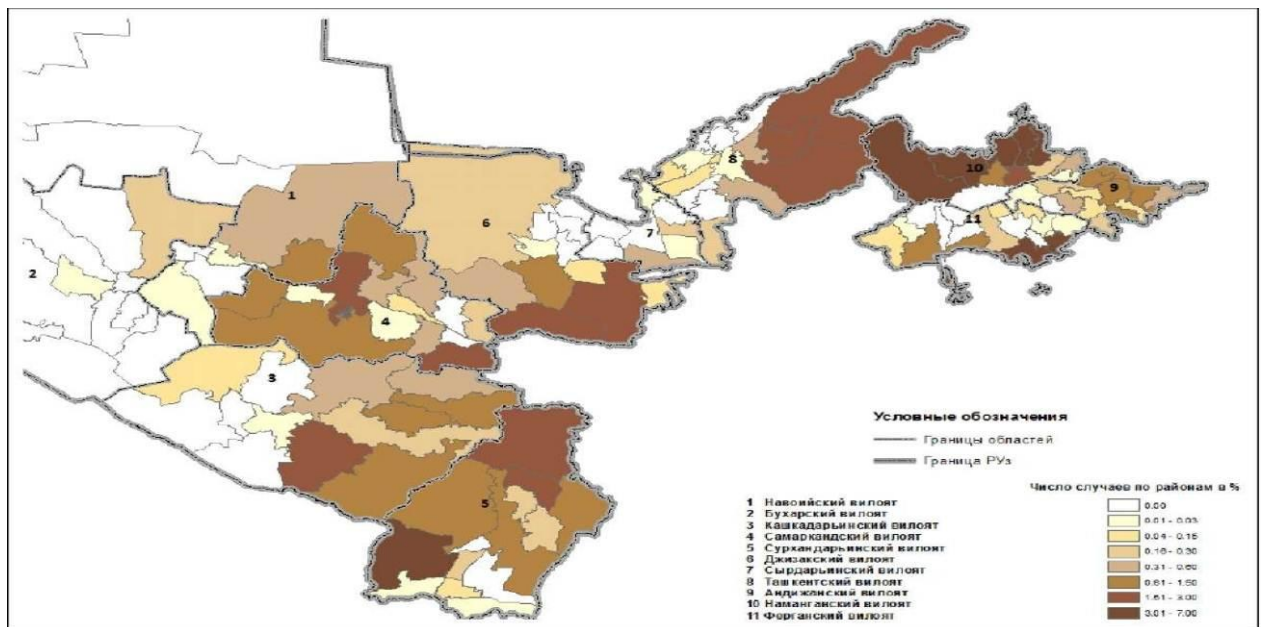


Рис 4.5. Территориальное распределение селеопасных зон и по административным районам Республики Узбекистан.

Согласно карте селеопасных зон (Рисунок 4.5) Гиждуванский и Ромитанский районы Бухарской области считаются селеопасными.

#### 4.2.3. Изменение рисков, связанных с температурой

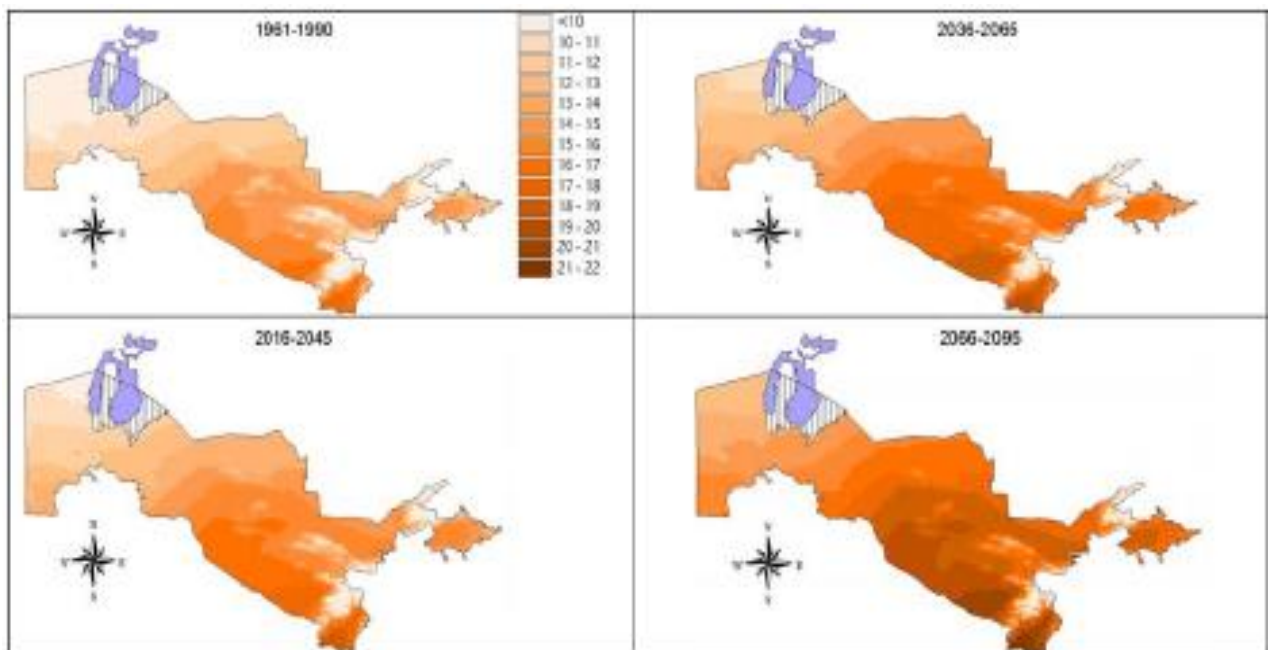


Рисунок 4.6. Современная базовая норма (1961-1990 годы) среднегодовой температуры воздуха ( $T$ , °C) и ее ожидаемое значение к 2030, 2050 и 2080 годам в соответствии со сценарием эмиссии A2 и учетом влияния сульфатных аэрозолей (статистическая интерпретация осредненных по шести моделям).

Согласно карте-схеме (Рисунок 4.6) по всей территории Узбекистана будет продолжаться тенденция роста среднегодовой температуры воздуха.

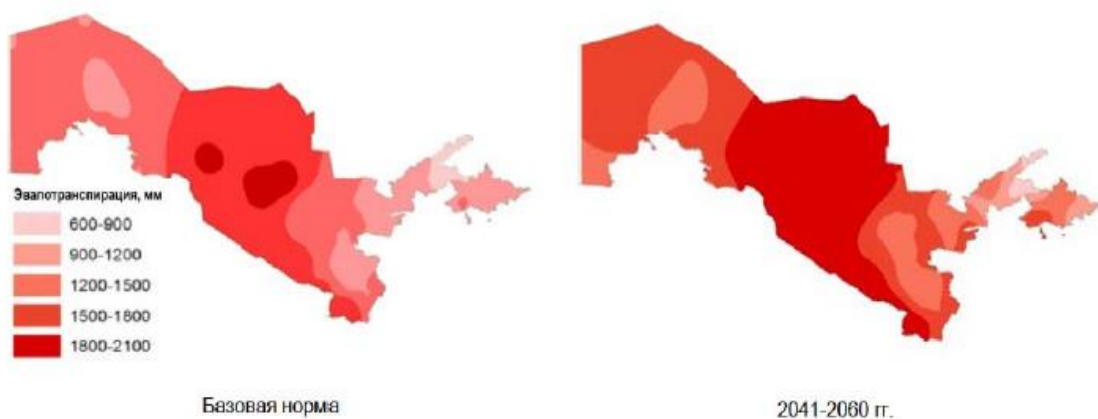


Рисунок 4.7. Карта-схема распределения среднегодовой эвапотранспирации за базовый климатический период и прогнозный период по сценарию WRE450

Карты-схемы (рисунок 4.7) иллюстрируют территориальное распределение наблюдаемой годовой эвапотранспирации за базовый климатический период (1980-1999 гг.) и оценки по сценарию WRE450 к 2050 г. Из рисунка следует, что даже в условиях реализации мягкого сценария выбросов парниковых газов возможно значительное расширение зон с высокой потенциальной эвапотранспирацией.

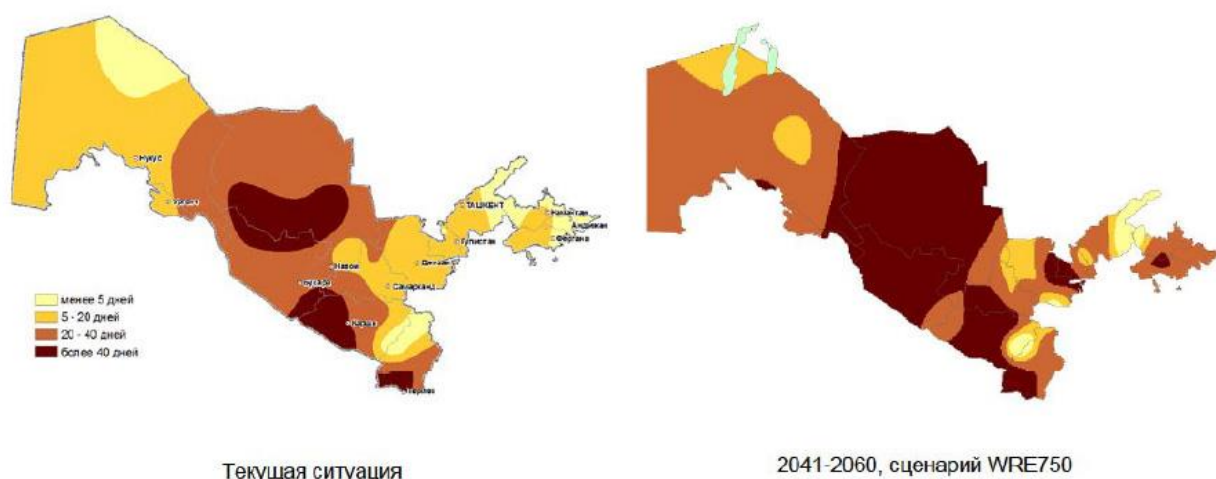


Рисунок 4.8. Карты-схемы распределения числа дней с дефицитом влажности воздуха  $D > 50 \text{ гПа}$  в настоящее время и к 2050 г. для сценария выбросов ЛГ WRE750

В настоящее время наибольшее число дней с атмосферной засухой (более 40) наблюдается в Навоийской, Бухарской, Кашкадарьинской и Сурхандарьинской областях (рис. 4.8. - текущая ситуация). Согласно сценарию WRE750, число дней с атмосферной засухой увеличится к 2041-2060 годам.

## Раздел 5. Оценка уровня опасностей и рисков с учетом изменения климата и соответствующие адаптационные меры.

### 5.1. Оценка уровня опасностей и рисков с учетом изменения климата.

Оценка уровня опасностей и рисков проводилась посредством осмотра участков для строительства, опроса местного населения, с учетом расположения естественных водных объектов (при их наличии) на территории отведенной под строительство, ожидаемого роста температуры и изменчивости осадков.

**Таблица 5.1. Оценка уровня опасностей и рисков по районам (и группам массивов)**

Район-массив	Бухара - Работак Каракуль – Пахтакор Пешку – Чекирчи Бухара – Зарманак Гиждуван – Ф.Хужаев	Рамитан – Бабур Каравулбазар – Навбахор Жандар – Навгади Шафиркан – Бобаата Каган - Сухор	
	Рельеф местности да/нет		
	Местность с плоским рельефом/ равнинная территория	Да	Да
	Пересеченная местность	Нет	Нет
Горная местность			
Русло реки/ близость зоны затопления			
Уровни риска высокий / умеренный / низкий/ риск отсутствует			
Высокие t°	Умеренный		
Низкие t°	Умеренный		
Ливневые паводки	Низкий		
Сели	Риск отсутствует		
Лавины	Риск отсутствует		
Сильные ветра	Умеренный		
Песчаные/пылевые бури	Умеренный		
Солевые бури	Низкий		
Обильные осадки	Низкий		
Засухи	Умеренный		
Подтопление/затопление	Риск отсутствует		

## 5.2. Рекомендация по адаптационным мерам

Для обоснования адаптационных мер к климатическим рискам в масштабе области, необходима развитие климатического мониторинга путем установки автоматических метеорологических станций в местах отсутствия наблюдений на всей территории области, которые дадут возможность получить качественные, локальные данные и улучшить качество прогнозов и оценок климатических рисков на локальном уровне. В данном отчете использованы данные фоновой оценки изменения климата. Также в качестве адаптационных мер необходимо, развитие систем раннего предупреждения, строительство противопаводковых и противоселевых гидротехнических сооружений на территории, находящейся под селевой опасностью, повышение информированности общественности о возможных рисках, связанных с повышением климатической изменчивости. Рекомендуется при строительстве домов использовать строительные нормы и правила (СНиП) с учетом метеорологических данных, приведенных в таблице 2.2 для ближайшей метеостанции (учет сильных ветров, ливневых осадков, экстремальных температур).

**Таблица 5.2. Рекомендуемые адаптационные меры по районам (и группам массивов)**

Район-массив	Бухара–Работак Каракуль – Пахтакор Пешку - Чекирчи Бухара – Зарманак Гиждуван – Ф.Хужаев	Рамиган – Бабур Каравулбазар – Навбахор Жандар – Навгади Шафиркан – Бобаата Каган- Сухор
Адаптационные меры		
Высокие t°	Адаптировать конструкцию стен по данным экстремальных температур ближайшей метеостанции, возведение зеленых зон	
Низкие t°	Адаптировать конструкцию стен по данным экстремальных температур метеостанции	
Ливневые паводки	Риск низкий	
Сели	Риск отсутствует	
Лавины	Риск отсутствует	
Сильные ветра	Адаптировать конструкцию крыши по данным ближайшей метеостанции	
Песчаные/пылевые бури	*Мероприятия по стабилизации песчаных почв (путем посадки солеустойчивых и засухоустойчивых растений)	
Солевые бури	*Мероприятия по стабилизации песчаных почв (путем посадки солеустойчивых и засухоустойчивых растений)*	
Обильные осадки	Предусмотреть ливневые канализации	
Засухи	Водосберегающие технологии, система капельного орошения, система раннего предупреждения засухи	
Подтопление/затопление	Риск отсутствует	

*\* В соответствии с постановлениями Президента Республики Узбекистан ПП-2731 от 18.01.2017г. О государственной программе по развитию региона Приаралья на 2017-2021 годы и Постановления Кабинета Министров ПКМ-132 от 15.02.2019. О мерах по ускорению строительства защитных лесов «Яшил Қопламар» в засушливых районах бассейна Аральского моря намечены масштабные мероприятия по улучшению экологических и социальных условий (обстановки) в регионе Приаралья. В настоящее время произведены лесные насаждения на обсохшем дне Аральского моря на площади около 500 тыс. га. Создание защитных лесных насаждений из пустынных пород растительности является одним из эффективных средств борьбы с переносом вредных соле-пылевых частиц. В зоне защитных насаждений резко сокращается подъем вредных мелких частиц с поверхности земли, корневая система саксаула и других кустарников укрепляет песчаные барханы, что способствует появлению травяного покрова и, тем самым, восстановлению экосистемы, а также создает условия для возникновения пастбищ, где в перспективе могут быть организованы животноводческие хозяйства.*

*Все указанные выше мероприятия способствуют снижению рисков солевых и песчаных бурь в Бухарской области и в том числе являются составляющей адаптационных мер по снижению рисков.*

## **Раздел 6. Заключение и рекомендации**

Результаты обследования показали, что нижеследующие массивы находятся на равнинной территории:

1. Бухарский район – массив Работак;
2. Пешкунский район – массив Чекирчи;
3. Рамитанский район – массив Бабур;
4. Караулбазарский район – массив Навбахор;
5. Каракульский район – массив Пахтакор;
6. Гиждуванский район – массив Ф.Хаджаев;
7. Жандарский район – массив Навгади;
8. Бухарский район – массив Зарманак;
9. Шафирканский район – массив Бобоата;
10. Каганский район – массив Сухор;

По массивам Работак, Зарманак, Навбахор, Бабур, Чекирчи, Ф.Хаджаев, Бобоата, Сухор согласно метеоданным станции АМСГ Бухара рекомендуется при строительстве учесть влияние сильных ветров (максимум 27 м/с), заморозков (минимум -24,9 °С), ливневых осадков (максимум 42,4 мм в сутки) и выпадение снега высотой до 8 см.

По массивам Пахтакор, Навгади, согласно метеоданным станции МС Каракуль рекомендуется при строительстве учесть влияние сильных ветров (максимум 40 м/с), заморозков (минимум -24,2 °С), ливневых осадков (максимум 43,2 мм в сутки) и выпадение снега высотой до 5 см.

При разработке проектов домов и их строительстве в указанных массивах, необходимо учитывать наблюдавшиеся на ближайших метеостанциях АМСГ Бухара и МС Каракуль метеорологические данные

(максимальные и минимальные температуры воздуха, скорости и порывы ветра, а также количество осадков). Предусмотреть строительство ливневой канализации с соответствующей пропускной способностью паводковых вод (осадков) и адаптационные меры по устойчивости конструкции крыш зданий и сооружений.

## **6.2 Проблемы и ограничения**

Исследования изменения климата проводились на региональном и страновом уровне, не проводились на уровне областей и районов Узбекистана, следовательно, существует ограничение в получении климатических данных по районам и массивам. В данном отчете использованы данные фоновой оценки изменения климата.

Отсутствие густой сети гидрометеорологических наблюдений создает неопределенность при проведении анализа ситуации и оценки на местном уровне. Также необходимо разработать детальные сценарии и модели изменения климата и оценки воздействия, которые могли быть полезными при оценке климатических рисков на локальном уровне.

Необходимо улучшить критерии проектирования СНиП с учетом долгосрочного воздействия изменения климата.

***При изменении места стройплощадки массива данный отчет подлежит к изменению и дополнению.***

Начальник Бухарского  
управления Гидрометеорологии:

Техник агрометеоролог Бухарского  
управления Гидрометеорологии:


Хусаинов А.М.

Мухиддинова Р.Ф.

## Список использованных данных

1. Гидрологический ежегодник о поверхностных ресурсах Республики Узбекистан;
2. Метеорологический ежегодник станций АМСГ Бухара, МС Каракуль;
3. Профиль климатических рисков Узбекистана: [http://crm.climatechange.uz/images/ca-crm/pdf/CRP\\_RUS\\_24042015.pdf](http://crm.climatechange.uz/images/ca-crm/pdf/CRP_RUS_24042015.pdf) и [http://crm.climatechange.uz/images/ca-crm/pdf/CRP\\_UZB\\_24042015.pdf](http://crm.climatechange.uz/images/ca-crm/pdf/CRP_UZB_24042015.pdf) ;
4. Второе национальное сообщение РУз: [http://unfccc.int/essential\\_background/library/items/3599.php?rec=j&priref=6568#beg](http://unfccc.int/essential_background/library/items/3599.php?rec=j&priref=6568#beg) ;
5. Третье национальное сообщение РУз: [http://unfccc.int/national\\_reports/non-annex\\_i\\_natcom/items/10124.php](http://unfccc.int/national_reports/non-annex_i_natcom/items/10124.php)
6. Научные продукты Landsat: <https://landsat.usgs.gov/landsat-science-data-products> ;
7. Глобальные карты с HAND-классификацией: <http://global-hand.appspot.com/> ;
8. Глобальные метеорологические данные и инструменты масштабирования на меньший размер (даунскейлинг) из проекта Earth2Observe: <https://wci.earth2observe.eu/portal/>, <http://e2o-downscaling-tools.readthedocs.io/en/latest/index.html>.
9. Карта: [http://www.capone-online.ru/uzbekistan\\_map\\_uzbekistan.html](http://www.capone-online.ru/uzbekistan_map_uzbekistan.html)

## Annex 7. Photos from construction sites



Construction of houses



instructing workers



Construction of houses



Construction of houses



lunch time



Watering the territory with water



Construction of houses



Construction of houses



Beneficiaries

## ANNEX 8. TEMPLATE FOR ENVIRONMENTAL MONITORING CHECKLIST

### Environmental Management Plan

\_\_\_\_\_  
Name of site

\_\_\_\_\_  
date mm/dd/yy

Activities, places	Anticipated impact on environment	Proposing mitigation measures	Status of implementation (Y/N)	Notes
Construction works Construction and labor camps,	Air pollution and noise	<ul style="list-style-type: none"> <li>• Apply watering of construction sites and roads inside settlements during dry season;</li> </ul>		
		<ul style="list-style-type: none"> <li>• Cover transported bulk materials;</li> </ul>		
		<ul style="list-style-type: none"> <li>• Prohibit open burning of solid wastes generated particularly from labor camps and construction activities</li> </ul>		
		<ul style="list-style-type: none"> <li>• schedule construction so as to minimize the multiple use of the noisiest equipment near sensitive receivers;</li> </ul>		
		<ul style="list-style-type: none"> <li>• schedule working hours between 8 am and 8 pm;</li> </ul>		
	Pollution of surface and ground water	<ul style="list-style-type: none"> <li>• Construction and labor camps, including storage places for lubricant, fuel and other oils shall be located 50 m away from water bodies;</li> </ul>		
		<ul style="list-style-type: none"> <li>• Conduction of refueling, oil replacement or repairing works shall be banded at the area within 50 m from water streams;</li> </ul>		
		<ul style="list-style-type: none"> <li>• Sanitary waters and solid wastes shall not be released directly into water streams;</li> </ul>		
	Waste Management	<ul style="list-style-type: none"> <li>• Segregation of wastes on recyclable and non-recyclable wastes, hazardous and non-hazardous;</li> <li>• Timely disposal of construction and domestic wastes from construction sites</li> </ul>		
	Soil pollution	<ul style="list-style-type: none"> <li>• Soil spillages shall be removed on construction site</li> </ul>		
	PPE (Personal Protective Measures)	<ul style="list-style-type: none"> <li>• Usage of PPE at construction site</li> </ul>		
	Logbooks	<ul style="list-style-type: none"> <li>• Maintenance of logbook,               <ol style="list-style-type: none"> <li>1) Incidents on construction site and camps;</li> <li>2) complaints</li> <li>3) register</li> <li>4) conducted training on EH&amp;S for new workers and on-going</li> </ol> </li> </ul>		

		trainings		
	Health and Safety	<ul style="list-style-type: none"> <li>• Presence of poster on H&amp;S, first aid set.</li> </ul>		
	Sanitarian conditions	<ul style="list-style-type: none"> <li>• Clean drinking water availability</li> <li>• Bathrooms and toilets</li> <li>• Dining facilities, refrigerator, proper storage places for meal and etc.</li> <li>• Prevention of infections caused by the COVID-19 pandemic (availability of medical masks and disinfectants, observance of a working distance of at least 2 meters (if possible)).</li> </ul>		

Contractor/subcontractor's representatives

Name \_\_\_\_\_

Signature \_\_\_\_\_

Khokimiyat's representative

Name \_\_\_\_\_

Signature \_\_\_\_\_

## ANNEX 9. Sample filled checklist

## ЭКОЛОГИК МОНИТОРИНГ РЕЖАСИ ( 9 -сонли ЛОТ)

Бухоро вилояти, Пешку тумани, Чигирчи массиви

сана (бажарилди): 24.12.2020 й.

Иш тури	Атроф-мухитга мумкин бўлган таъсир	Таъсирни енгиллаштириш учун таклиф этилаётган амаллар	Мониторинг: Бажарилдими? Ҳа / Йўқ	ИЗОҲЛАР
Курилиш ишлари, Курилиш майдонлари ва ишчилар истиқоматгоҳи, техника эксплуатацияси	Ҳавонинг ифлосланиши	• Кургоқчилик пайтида қурилиш майдонларига ва аҳоли яшаш пунктлари ички йўллариға сув сеппиб туриш;	Ҳа	
		• Сочилувчан материаллар ташувчи транспорт воситаларини устуни ёпиб юриш;	Ҳа	
		• Атроф мухит ва аҳолига шовкин таъсири (тасдиқланган иш жадвали), шикоят ва таклифлар қайдномаси журнали / китоби;	Ҳа	
		• Қаттиқ чиқиндиларни очик ёндиришга йўл қўймаслик, айниқса ишчилар истиқоматгоҳидан ва қурилиш майдонларда;	Ҳа	
	Ер ости ва усти сувларининг ифлосланиши	• Қурилиш майдонлари ва ишчилар истиқоматгоҳи, ёнилғи ва мойлаш материалларни сақлаш омборлари, сув хавзаларидан камида 50 метр радиус узокда бўлиши шарт;	Ҳа	
		• Ёнилғи қуйиш, мой алмаштириш ёки ремонт ишлари сув хавзаларидан камида 50 метр узокда бажарилиши шарт;	Ҳа	
		• Ёнилғи ва мойларни сақлаш жойи, ва ёнилғи қуйиш ускуналари (ҳимояланган сирт);	Ҳа	
	Маиший ва қурилиш чиқиндиларини сақлаш	• Маиший чиқиндиларни, қурилиш чиқиндиларни, Ёқилғи - мой маҳсулотларни алоҳида сақлаш;	Ҳа	
	Тупроқнинг ифлосланиши	• Ёқилғи - мой маҳсулотларни тупроқнинг устки қатламларига тўкилишини олдини олиш;	Ҳа	
	Шахсий ҳимоя воситалари	• Қурилиш ишлари пайтида маҳсус иш кийимлари мавжудлиги – Шахсий ҳимоя воситалари (каска, респираторлар, ҳимоя кўзойнаклари, маҳсус пойафзаллар) таъминлаш;	Ҳа	
Қайдномалар	Қайдномалар	• Қайднома журнали, 1) жароҳатлар, бахтсиз ходисалар, иш вақтидаги жароҳатлар қайди; 2) шикоят ва таклифлар; 3) ишчиларни ишга келиб кетиш вақти; 4) қурилиш майдонларида хавфсизлик техникаси ва атрофни муҳофаза қилиш бўйича ўтказилган ўқув машғулотлари рўйхати;	Ҳа	
		• Дастлабки тиббий ёрдам ва хавфсизлик техникасини намоён этувчи стендларни мавжудлиги (аптечка);	Ҳа	
	Хавфсизлик техникаси	• Тоза ичимлик суви мавжудлиги; • Ҳаммом (душ) ва ҳожатхоналар мавжудлиги (кўчма); • Санитария талабларига жавоб берадиган ошхоналар ёки кўчма ошхона (музлатгич, озиқ-овқат маҳсулотларини алоҳида сақлаш). • COVID-19 пандемия оқибатида инфекциянинг (вируси) олдини олиш мақсадида СанПиН № 0372-20 ( <a href="https://minzdrav.uz/openData/csv/saphin0372-20new.pdf">https://minzdrav.uz/openData/csv/saphin0372-20new.pdf</a> ) талабларига риоя қилиш	Ҳа	
Санитария стандартлари			Ҳа	

Пудратчи: "Пешку Транс Курилиш" вакили

Аслонов Жўрабек

Туман ҳокимияти вакили

Т.Т.Ёдгоров