



## ADAPTATION FUND

AFB/PPRC.22/17  
7 March 2018

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Adaptation Fund Board  
Project and Programme Review Committee  
Twenty-Second Meeting  
Bonn, Germany, 20-21 March 2018

Agenda Item 8 I)

### **PROPOSAL FOR MONGOLIA**

## Background

1. The Operational Policies and Guidelines (OPG) for Parties to Access Resources from the Adaptation Fund (the Fund), adopted by the Adaptation Fund Board (the Board), state in paragraph 45 that regular adaptation project and programme proposals, i.e. those that request funding exceeding US\$ 1 million, would undergo either a one-step, or a two-step approval process. In case of the one-step process, the proponent would directly submit a fully-developed project proposal. In the two-step process, the proponent would first submit a brief project concept, which would be reviewed by the Project and Programme Review Committee (PPRC) and would have to receive the endorsement of the Board. In the second step, the fully-developed project/programme document would be reviewed by the PPRC, and would ultimately require the Board's approval.

2. The Templates approved by the Board (Annex 5 of the OPG, as amended in March 2016) do not include a separate template for project and programme concepts but provide that these are to be submitted using the project and programme proposal template. The section on Adaptation Fund Project Review Criteria states:

*For regular projects using the two-step approval process, only the first four criteria will be applied when reviewing the 1st step for regular project concept. In addition, the information provided in the 1st step approval process with respect to the review criteria for the regular project concept could be less detailed than the information in the request for approval template submitted at the 2nd step approval process. Furthermore, a final project document is required for regular projects for the 2nd step approval, in addition to the approval template.*

3. The first four criteria mentioned above are:

- (i) Country Eligibility,
- (ii) Project Eligibility,
- (iii) Resource Availability, and
- (iv) Eligibility of NIE/MIE.

4. The fifth criterion, applied when reviewing a fully-developed project document, is:  
(v) Implementation Arrangements.

5. It is worth noting that since the twenty-second Board meeting, the Environmental and Social (E&S) Policy of the Fund was approved and since the twenty-seventh Board meeting, the Gender Policy (GP) of the Fund was also approved. Consequently, compliance with both the ESP and the GP has been included in the review criteria both for concept documents and fully-developed project documents. The proposals template was revised as well, to include sections requesting demonstration of compliance of the project/programme with the ESP and the GP.

6. In its seventeenth meeting, the Board decided (Decision B.17/7) to approve "Instructions for preparing a request for project or programme funding from the Adaptation Fund", contained in the Annex to document AFB/PPRC.8/4, which further outlines applicable review criteria for both concepts and fully-developed proposals. The latest version of this document was launched in October 2016 following an update of the Operational Policies and Guidelines in March 2016.

7. Based on the Board Decision B.9/2, the first call for project and programme proposals was issued and an invitation letter to eligible Parties to submit project and programme proposals to the Fund was sent out on April 8, 2010.

8. According to the Board Decision B.12/10, a project or programme proposal needs to be received by the secretariat no less than nine weeks before a Board meeting, in order to be considered by the Board in that meeting.

9. The following fully-developed project document titled “Flood Resilience in Ulaanbaatar Ger Areas (FRUGA)- Climate Change Adaptation through community-driven small-scale protective and basic services interventions” was submitted by the United Nations Human Settlements Programme (UN-Habitat), which is a Multilateral Implementing Entity of the Adaptation Fund, on behalf of the government of Mongolia.

10. This is the second submission of the proposal using the two-step submission process. It was first submitted as a project concept for consideration by the Board at its thirtieth meeting and the Board decided:

*(a) To endorse the project concept, as supplemented by the clarification response provided by the United Nations Human Settlements Programme (UN-Habitat) to the request made by the technical review;*

*(b) To request the secretariat to transmit to UN-Habitat the observations in the review sheet annexed to the notification of the Board’s decision, as well as the following issues:*

*(i) The fully-developed project document should provide further details on proposed adaptation activities;*

*(ii) The fully-developed project document should provide further information on the ongoing activities related to waste management, including its legal and regulatory framework and overall sustainability;*

*(iii) The fully-developed project document should include information on how to maintain and sustain the proposed priority interventions;*

*(c) To request UN-Habitat to transmit the observations under item (b) to the Government of Mongolia; and*

*(d) To encourage the Government of Mongolia to submit through UN-Habitat a fully-developed project proposal that would address the observations under subparagraph (b) above.*

***(Decision B.30/16)***

11. The current submission of the fully-developed project document was received by the secretariat in time to be considered in the thirty-first Board meeting. The secretariat carried out a technical review of the project proposal, assigned it the diary number MNG/MIE/DRR/2017/1, and completed a review sheet.

12. In accordance with a request to the secretariat made by the Board in its 10th meeting, the secretariat shared this review sheet with UN-Habitat, and offered it the opportunity of providing responses before the review sheet was sent to the PPRC.

13. The secretariat is submitting to the PPRC the summary and, pursuant to decision B.17/15, the final technical review of the project, both prepared by the secretariat, along with the final submission of the proposal in the following section. In accordance with decision B.25.15, the proposal is submitted with changes between the initial submission and the revised version highlighted.



## Project Summary

Mongolia – Flood Resilience in Ulaanbaatar Ger-Areas (FRUGA)- Climate Change Adaptation through community-driven small-scale protective and basic services interventions

Implementing Entity: UN-Habitat

Project/Programme Execution Cost: USD 393,593

Total Project/Programme Cost: USD 4,143,094

Implementing Fee: USD 352,141

Financing Requested: USD 4,495,235

### Project Background and Context:

The seven target Ger communities in Ulaanbaatar are characterized by a high exposure to multiple climate hazards ranging from wind and dust storms, air pollution, and particularly by floods - cited as the main climate issue that required addressing by the communities - during the rapid needs assessment. Climate sensitivity is underpinned by rapid urbanization and population growth, leading to people residing in high-risk areas, in unsanitary conditions engaging in unhygienic behaviour, which exacerbates public health risks. Underlying vulnerabilities are poverty, limited social ties, limited access to basic services, gender inequalities and environmental degradation. Moreover, the adaptive capacities at household, community and governance level are barriers for change as is the very limited knowledge and awareness of risks and their own vulnerability.

To achieve the overall project objective, “enhance the climate change resilience of the seven most vulnerable Ger khoroo settlements focusing on flooding in Ulaanbaatar City,” the project combines horizontally and vertically interrelated resilience strengthening of national and municipal institutions, khoroo communities and their physical, natural and social assets.

Component 1: Producing hazard and risk information / evidence for reducing vulnerability at the city, district and khoroo community level– primarily for Ger areas at high-risk of frequent flooding (USD 401,790)

This component will focus on reducing vulnerability to climate-related hazards and threats both at the city/town and community level by: developing one Ulaanbaatar northern Ger-Area (including the three high risk target districts covering the seven most vulnerable khoros) Territorial Land Use Plan, with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on a simulation model for forecasting future impacts of climate change flooding in UB city & Ger-areas, to be developed through this project; and producing seven Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people. The information generated and included in the land use plans and simulation model will allow the municipality, district authorities and khoroo communities to understand climate change related impacts and risks and to identify appropriate, community specific resilience interventions based on this information.

Component 2: Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroo and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3) (USD 458,346)

This component aims at fully involving communities in the planning and execution of the proposed interventions under component 3; to ensure the proper operation and maintenance (and

implementation of potential risk mitigation measures) of these interventions through community involvement. Under component 3, Khorroos communities will be directly contracted to execute the concrete interventions. The Khorroos communities will develop plans to execute these interventions, including management and maintenance arrangements. In parallel with these plans, technical engineering and hydrology studies will be conducted to ensure the assets are properly designed.

To ensure inhabitants are aware of the main issues and risks (including environmental and social risks of interventions) in their communities and to be able to respond to these issues and risks, awareness raising campaigns will be set-up and trainings conducted.

### Component 3: Enhancing resilience of community level flood protection assets (USD 2,644,684)

During the rapid Khoroo-level vulnerability assessment, prioritization and vulnerable groups consultations, communities identified and confirmed two main concrete resilience building interventions: improved drainage systems to reduce floods and improved sanitation systems that won't overflow during floods and lead to health issues. Thus, these interventions have been selected to respond to the most pressing Khoroo-specific climate change hazards.

As this would be the first time to implement the Peoples Process in some of the proposed Ger areas it is critical that the local authorities and communities are exposed to the rigorous and complex combination of implementation and monitoring approaches and guidelines that will be put in place; from technical compliance and quality to management accountability, transparency and safe-guarding the rights-based approach of the People's Process. An international advisory technical team, familiar with the roll-out of the People's Process closely working with the national execution team to adapt the approach to suit the local context, – with all its' cultural, community, institutional and legal dynamics - will be critical to ensure the success of the implementation.

### Component 4: Awareness raising, knowledge management and communications (USD 244,682)

This component will strengthen urban-level institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses, especially related to floods and ensure the project implementation is fully transparent, all stakeholders are informed of products and results and have access to these for replication. This is done by capturing lessons learned and best practices regarding flood-resilient urban community development and distribute these to other communities, civil society, and policy-makers in government appropriate mechanisms, and conducting trainings to city and district government officials on replication of climate-induced risk (flood) adaptation interventions and process for other vulnerable locations/hazards in Ger areas.



ADAPTATION FUND

## ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Regular-sized Project

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Country/Region: **Mongolia**  
 Project Title: **Flood Resilience in Ulaanbaatar Ger Areas - Climate Change Adaptation through community-driven small-scale protective and basic-services interventions**  
 AF Project ID: **MNG/MIE/DRR/2017/1**  
 IE Project ID: \_\_\_\_\_  
 Reviewer and contact person: **Rawlestone Moore**  
 IE Contact Person: **Nadine Waheed**

Requested Financing from Adaptation Fund (US Dollars): **4,495,235**  
 Co-reviewer(s): **Dirk Lamberts**

Review Criteria	Questions	Comments on 2 February 2018	Comments on 20 February 2018
Country Eligibility	1. Is the country party to the Kyoto Protocol?	Yes Mongolia ratified the Kyoto Protocol on 15th December 1999	
	2. Is the country a developing country particularly vulnerable to the adverse effects of climate change?	Yes	
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes, a letter from the focal point Dr. Zamba Batjargal is on file.	
	2. Does the project / programme support concrete adaptation actions to assist the country in addressing adaptive capacity to the adverse effects of climate change and build in climate resilience?	Yes the proposed activities support concrete adaptation actions. Central Mongolia, where the main city Ulaanbaatar is located is susceptible to an increased risk of flooding. The project will target the Khoroos communities focussing on flooding. Table 4 identifies the specific activities	
	3. Does the project / programme	The project does provide economic, social and	

	provide economic, social and environmental benefits, particularly to vulnerable communities, including gender considerations, while avoiding or mitigating negative impacts, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	<p>environmental benefits.</p> <p>The identification of beneficiaries is included as a knowledge management product (p. 65). The stakeholder analysis and beneficiaries' description is not (sufficiently) gender-disaggregated in the proposal. This is not in line with the ESP nor the GP. The number of beneficiaries is not clear.</p> <p><b>CAR 1:</b> Please provide accurate, gender-disaggregated figures on project beneficiaries, in line with ESP and GP.</p>	<b>CAR1:</b> Addressed.
	4. Is the project / programme cost effective?	Yes, the proposal is cost effective.	
	5. Is the project / programme consistent with national or sub-national sustainable development strategies, national or sub-national development plans, poverty reduction strategies, national communications and adaptation programs of action and other relevant instruments?	Yes	
	6. Does the project / programme meet the relevant national technical standards, where applicable, in compliance with the Environmental and Social Policy of the Fund??	<p>Partially. The information presented in Table 8 on compliance with relevant national technical standards does not cover the range of potential USPs. The IE's publications or manuals cannot be considered national standards.</p> <p><b>CR 1:</b> Please identify all the national technical standards that are relevant to the project, and show how these standards are met.</p>	<b>CR1:</b> Addressed.
	7. Is there duplication of project / programme with other funding sources?	There is no duplication of funding	

	8. Does the project / programme have a learning and knowledge management component to capture and feedback lessons?	Yes, there is a comprehensive learning component. Objective 1 focuses on improving knowledge and component 4 on knowledge management	
	9. Has a consultative process taken place, and has it involved all key stakeholders, and vulnerable groups, including gender considerations in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	Partially. Consultations of the communities and of beneficiary groups are mentioned but lack specific information beyond a description of the IE's process that was used. The outcome of such consultations is not shown, and there is no information on how the consultation outcomes were incorporated in the project design. Vulnerable groups have not been identified beyond generic statements, and the required gender considerations are not demonstrated.  <b>CR2:</b> Please clarify and provide evidence of the consultations that were held of the project beneficiaries, particularly at community level, in compliance with the ESP and the GP.	<b>CR2:</b> Addressed.
	10. Is the requested financing justified on the basis of full cost of adaptation reasoning?	Yes	
	11. Is the project / program aligned with AF's results framework?	Yes	
	12. Has the sustainability of the project/programme outcomes been taken into account when designing the project?	Yes	
	13. Does the project / programme provide an overview of environmental and social impacts / risks identified, in compliance with the Environmental and Social Policy and Gender Policy of the Fund?	No. The bulk of the project (71% of project activities budget) are unidentified sub-projects (USPs). The argument presented to justify this approach is stated on p. 33: "(...) <i>is required because the current information on climate impacts and risk (...) is not detailed enough to identify appropriate risk reduction and resilience building interventions at the community</i>	<b>CAR2: Not addressed.</b> The claim that all USPs have been identified is a little unclear. Figures 14 and 15 are identical to those included in the previous submission of the funding application. Table

		<p><i>level, (...).</i>" Apart from providing a weak adaptation argument, this does not provide justification for the use of the USP approach as no obstacles have been identified that pre-empt the full identification, design and elaboration of all project activities prior to submission of the funding request. Consequently, identification of environmental and social risks as required by the ESP prior to submission of the proposal is not possible. The risks identification that is presented is not evidence-based, comprehensive or commensurate as required by the ESP.</p> <p><b>CAR2:</b> Please identify the project activities to the stage where effective ESP risks identification is possible, and update the proposal accordingly.</p> <p><b>CAR3:</b> Based on the fully designed project activities, carry out an environmental and social risks identification, as required by the ESP. This should take into account the nature of the project activities, as well as the specific environmental and social settings in which the activity will take place. Please update the related components of the proposal accordingly (impact assessments, possible ESMP, consultations, monitoring etc.).</p> <p>The measures described in Section III.C and Annex 5 reflect a profound lack of appreciation for the nature of the ESP and the compliance requirements. The text refers to risks identifications that have been carried out, as well as subsequent identification of safeguards measures while the majority of project activities have not yet been identified to a stage where such a risk identification can meaningfully be done.</p> <p><b>CR3:</b> The ESMP, if determined to be required after an</p>	<p>4 contains added numbers on women beneficiaries but no further design information on the USPs. Annex 5 - Demonstrating compliance with the Adaptation Fund Social and Environmental Policy (ESP) – contains no new information on the USPs and this would also not be the location for such information. The detailed budget is identical to the one presented earlier, which would need to be clarified how that is justified now that all USPs are claimed to have been identified. The budget notes that have been added in response to CR8 contain information on the length of the sections in which some of the USPs now have been divided but nothing further.</p> <p><b>CAR3: Not addressed.</b> The USPs have not been identified. Table 13 is identical to that of the previous submission. There are no substantive changes to Annex 5. New claims that "All project</p>
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		<p>ESP-compliant risks identification and commensurate impacts assessment, needs to be revised to reflect the four core qualities of the ESP: risk-based (as per the AF ESP 15 principles), evidence-based (as opposed to opinion or categorisation-based), commensurate to the risks, and comprehensive (applying to all the project activities). Please revise the ESMP to reflect these as required.</p> <p>It is unclear how the complex project execution arrangements might contribute to effective and adequate compliance with the ESP.</p> <p><b>CR4:</b> Please review and improve the implementation arrangements for ESP compliance.</p>	<p>activities have been screened against the 15 environmental and social risks.” are not substantiated.</p> <p><b>CR3: Not addressed.</b></p> <p><b>CR4: Not addressed.</b></p>
Resource Availability	1. Is the requested project / programme funding within the cap of the country?	Yes	
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project/programme budget before the fee?	The Implementing Entity Management Fee is 8.59%. Please reduce to 8.5%	<b>Addressed</b>
	3. Are the Project/Programme Execution Costs at or below 9.5 per cent of the total project/programme budget (including the fee)?	Yes	
Eligibility of IE	4. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes	
Implementation Arrangements	1. Is there adequate arrangement for project / programme management, in compliance with the Gender	No. <b>CR5</b> Please clarify how the arrangements for project management take into consideration gender. For example, will there be a dedicated staff member to address gender issues	<b>CR5: Addressed.</b>

	Policy of the Fund?		
	2. Are there measures for financial and project/programme risk management?	Yes	
	3. Are there measures in place for the management of for environmental and social risks, in line with the Environmental and Social Policy and Gender Policy of the Fund?	The measures proposed are inadequate and not in line with the ESP and GP.  <b>CR6:</b> Please identify the management measures that are required for compliance with the ESP and the GP of the Fund.	<b>CR6:</b> Not addressed.
	4. Is a budget on the Implementing Entity Management Fee use included?	Yes, it is included in the main budget	
	5. Is an explanation and a breakdown of the execution costs included?	There is a budget but no written explanation. <b>CR7</b> Please provide an explanation of the execution costs	<b>CR7:</b> Addressed.
	6. Is a detailed budget including budget notes included?	<b>CR8</b> Please provide written detailed budget notes	<b>CR8:</b> Addressed.
	7. Are arrangements for monitoring and evaluation clearly defined, including budgeted M&E plans and sex-disaggregated data, targets and indicators, in compliance with the Gender Policy of the Fund?	Yes	
	8. Does the M&E Framework include a break-down of how implementing entity IE fees will be utilized in the supervision of the M&E function?	Yes	
	9. Does the project/programme's results	Yes	



	framework align with the AF's results framework? Does it include at least one core outcome indicator from the Fund's results framework?		
	10. Is a disbursement schedule with time-bound milestones included?	Yes	

Technical Summary	<p>Mongolia is a landlocked country located in Northeast Asia between Russia and China with a total land area of 1,564,116 square kilometres. It is surrounded by high mountains and is located on highlands at an average elevation of 1,500 meters above sea level. Ulaanbaatar, the capital city, is the coldest capital city in the world. It is home to half of the national population and nearly all of its skilled human capital and financial resources. Mongolia is set to be significantly impacted by the effects of climate change. Although milder climatic forecasts might bring some benefits to a country such as less harsh weather conditions, these are most likely to be outweighed by significant drawbacks for the country. As mean temperatures are to rise, secondary effects such as increases in extreme weather events become more likely. Central Mongolia, where Ulaanbaatar is located, has seen the most prominent increase in warm summer days and nights. A consequence of this has been increased and more frequent flooding in Ulaanbaatar City.</p> <p>To achieve the overall project objective, "to enhance the climate change resilience of the seven most vulnerable Ger khoroo settlements focusing on flooding in Ulaanbaatar City" the project will focus on soft and hard components: combining horizontally and vertically interrelated resilience strengthening of national and city institutions, local government and khoroo communities; and resilience building measures for their physical, natural and social assets.</p> <p>The initial technical review found that, despite a good project design, there were still a number of substantive issues, mainly related to compliance with the Environmental and Social Policy (ESP) of the Fund, which needed to be addressed for this project.</p> <p>The final technical review finds that the ESP compliance issues are not addressed. The following observations are made:</p> <ul style="list-style-type: none"> <li>a) The proposal should ensure that the environmental and social risks identification and management process for the identified adaptation measures is clearly outlined in the environmental and social management plan of the project, including adequate allocation of roles for implementation arrangements,</li> </ul>
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	<p>in line with the Environmental and Social Policy;</p> <p>b) Alternatively, the design of the project activities should be further undertaken to the point where it is possible to comprehensively identify the environmental and social risks and formulate any management measures that are required, in line with the Environmental and Social Policy.</p>
Date:	20 February 2018



ADAPTATION FUND

## REQUEST FOR PROJECT/PROGRAMME FUNDING FROM THE ADAPTATION FUND

The annexed form should be completed and transmitted to the Adaptation Fund Board Secretariat by email or fax.

Please type in the responses using the template provided. The instructions attached to the form provide guidance to filling out the template.

Please note that a project/programme must be fully prepared (i.e., fully appraised for feasibility) when the request is submitted. The final project/programme document resulting from the appraisal process should be attached to this request for funding.

Complete documentation should be sent to:

The Adaptation Fund Board Secretariat  
1818 H Street NW  
MSN P4-400  
Washington, D.C., 20433  
U.S.A  
Fax: +1 (202) 522-3240/5  
Email: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)



ADAPTATION FUND

## PROJECT/PROGRAMME PROPOSAL TO THE ADAPTATION FUND

### PART I: PROJECT/PROGRAMME INFORMATION

Project/Programme Category: Regular  
Country/Cities: Mongolia/ Ulaanbaatar  
Title of Project/Programme: **Flood Resilience in Ulaanbaatar Ger Areas** - Climate Change Adaptation through community-driven small-scale protective and basic-services interventions  
Type of Implementing Entity: Multilateral Implementing Entity  
Implementing Entity: UN-Habitat  
Executing Entity/ies: Programme Execution Unit (PEU) UNOPS, with the Municipality of Ulaanbaatar (MUB) and the Governor's Office, District Governors and Ger-Communities within Songino-khairkhan, Bayanzurkh and Sukhbaatar Districts; INGOs and LNGOs; Ministry of Environment and Tourism (MoET).  
Amount of Financing Requested: US\$ 4.5 million

### 1. Project Background and Context

Mongolia is a landlocked country located in North-east Asia between Russia and China with a total land area of 1,564,116 square kilometres. It is surrounded by high mountains and is located on highlands at an average elevation of 1,500 meters above sea level.

Ulaanbaatar<sup>1</sup> (see picture below), the capital city, is the coldest capital city in the world. It is home to half of the national population and nearly all of its skilled human capital and financial resources.



<sup>1</sup>Ulaanbaatar will hereafter be referred to as UB city in this document.



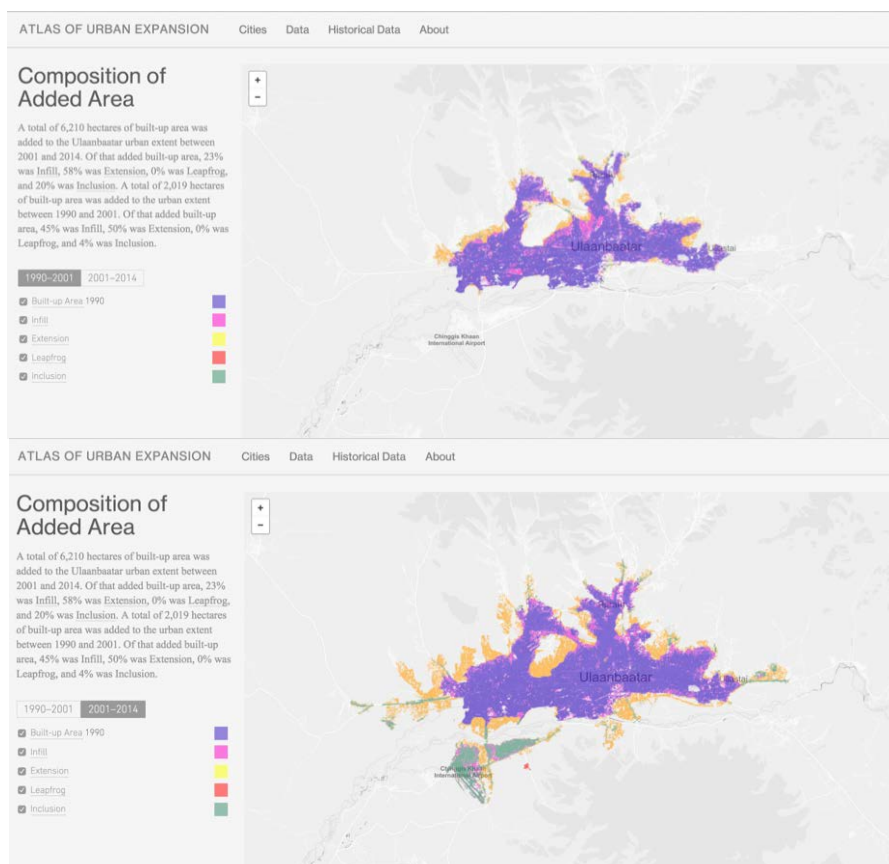
## The problem

### From nomadic resilience to urban vulnerability

Although Mongolia is labelled as a stable economy with regard to its state of development, high rural-urban migration rates and uneven economic development remain major challenges in the country. Twenty percent of Mongolia's population have migrated to Ulaanbaatar over the past three decades. Weather patterns, called dzud, have forced many to leave their traditional way of life herding cattle and sheep and move to the capital. Dzud is an ultra-cold-weather phenomenon (with temperatures down to -50 degrees Celsius) believed to occur in five-yearly cycles, but has been increasing in frequency, especially in the Gobi Desert region of Mongolia. Last year, one million animals died due to the deep freeze, often buried neck-deep in snowdrifts. In 2009 nearly eight million animals were wiped out in one of Mongolia's worst ever winters, destroying the herds many families. The dzuds ruin the farmers' livelihoods, and due to lack of social support systems, the only choice left is to move to Ulaanbaatar and find a job. This process of nomads moving to Ulaanbaatar has created a new class of 'urban poor,' that mostly reside in the fast expanding informal 'Ger' settlements (a Ger is a nomadic tent). This in turn has resulted in increased pressure on public services and the environment. During winter, these 'Ger' areas 'suffer' from the highest levels of air pollution in the world - caused by the burning of coal to keep warm in the Gers and the cities power plants. Besides that, increasing climate change related flood events especially affect these unplanned Ger areas because people reside in high risk areas such as next, or even in, gullies and rivers. Moreover, floods cause the overflow of latrines, resulting in contaminated water and soil, which in turn lead to health problems and water scarcity. Because the inhabitants of the Ger areas are often poor (i.e. 22 percent of the city's population lives in poverty) and the government does not have the resources and technical capacities to provide adequate and climate resilient basic utilities and services to the ever-growing urban poor population, people living in these 'Ger' areas are particularly vulnerable.

Should another catastrophic dzud take place, this would occur at a time of extreme economic hardship and poor levels of preparedness. It is likely that it is the informal urban 'Ger' settlements, where just over one quarter of the entire country's population already resides, will be the most impacted within the capital. Another dzud would further increase the transient population of the city, increase urban density in the most 'at-risk' areas such as around gullies at the bottom of the hills in the city and in riverbeds. This 'forced' mass migration would contribute to the extreme levels of water, soil and air pollution as well as increased risk of flooding and social exclusion.

The combination of these factors and the exponential pace of in-migration have imposed huge pressures on the Government to address the challenges of rapid expansion of informal settlements and associated risks. However, the current economic challenged and the shifts in leadership have resulted in a macro-approach to addressing prevailing challenges and national development, of which some focus on sustainable urban growth, including in ger-areas. The government has shown to be just about able to create the appropriate policy and planning framework in face of rapid urban expansion but does not have the resources to also prepare and plan for climate change impacts, which are only set to deteriorate in future. Thus, the government requires support to address the issue of expanding communities as a consequence of climate change as well as provide immediate attention to these Ger-settlers who are left vulnerable to multiple risks upon arrival. Most urgently, support is needed to avoid future immigrants to reside in high risk areas (through land use planning). Besides that, support is required to reduce the impacts of floods and the consequently overflow of pit latrines, leading to health issues (through the provision of basic infrastructure and resilient latrines), all through the involvement and social cohesion building of communities.

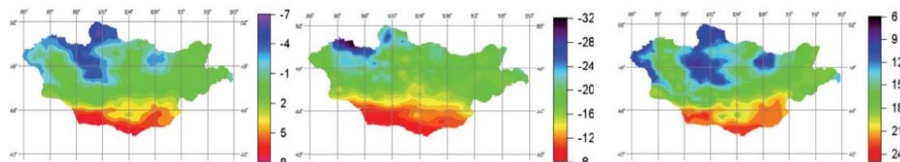


**Figure 1: Shows the expansion of Ulaanbaatar's physical area between the period 1990-2001(top) and 2001-2014 (bottom): A total of 2,019 hectares of built-up area was added to the urban extent between 1990 and 2001; and a total of 6,210 hectares of built-up area was added to the Ulaanbaatar urban extent between 2001 and 2014.** Source: *Atlas of Urban Expansion 2016*, an initiative of UN-Habitat, NYU and the Lincoln Institute of Land Policy. <http://www.atlasofurbanex->

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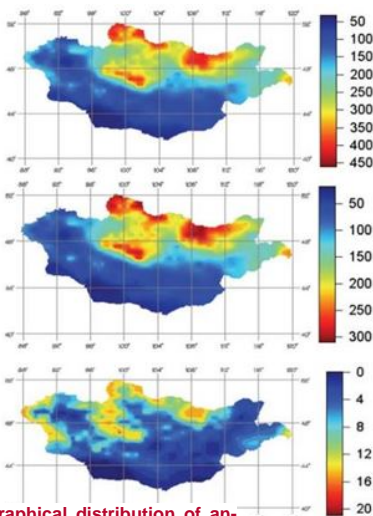


## Climate change projections



**Figure 2: Annual mean air temperature (left), mean air temperature in winter (middle) and mean air temperature in summer (right).** Source: Assessment report on climate change 2009, pp. 36-37.

Mongolia has four distinct seasons, large temperature fluctuations, and little precipitation. The climate varies widely from region to region, not only due to differences in altitude, but those in latitude. The annual mean temperature is between -8°C and 6°C, and varies considerably among regions. Summer temperatures range between 10° and 26.7°C and can reach a maximum of 45°C, while winter temperature ranges between -15° and -30°C, and can even dip below -50°C (Figure 2).



**Figure 3: Geographical distribution of annual precipitation (top), summer precipitation (middle), and winter precipitation (bottom) in mm.** Source: Assessment report on climate change 2009, p. 37.

In general, mean temperatures are highest in south Gobi (>6°C) and decrease to the northern parts of the country, with mean a temperature of 0°C in Mongolia's northern part of the Gobi Desert region. Extreme temperature shifts across seasons (Figure 2, summer and winter) and abrupt shifts within shorter time spans (i.e. Day/night, hour/hour/, day/day) are mainly due to the country's long distance from oceans, the high mountains which surround it and its high elevation of more than 1.5 kilometres above sea level. It should be noted that annual mean air temperature at the land surface has increased by 2.07°C for the years from 1940 until 2013.<sup>2</sup>

Rainfall varies within the country and is strongly influenced by topography, increasing from south to north. Precipitation in Mongolia is generally low with annual averages of 300-400 mm in the northern mountain regions, 250-300 mm in the forest-steppe zones, 150-250 mm in the steppe zones, and 50-100 mm in the southern Gobi Desert (Figure 3, top).

About 85 percent of the annual precipitation is recorded during the months from April to September, of which 50-60 percent falls in the summer months of July and August (Figure 3, middle). Although rainfall is generally low in Mongolia, its intensity is

high. Records show intense rainstorms that receive 40-65 mm of rain in only one hour. Precipitation during the winter months from December to March is highest in the northern mountain areas with 20-30 mm of snow, around 10 mm in the desert region and 10-20 mm in the other regions (Figure 3, bottom).

Due to its location, fragile natural ecosystems, the lifestyle of the people and the economic situation, Mongolia's sensitivity to climate change makes this an important topic to be addressed by the Mongolian government. The impact of already observed climate change related events caused high damages not only to its livestock, but also to the country's ecology

<sup>2</sup>Mongolia Second National Communication under the UNFCCC, p. 41.

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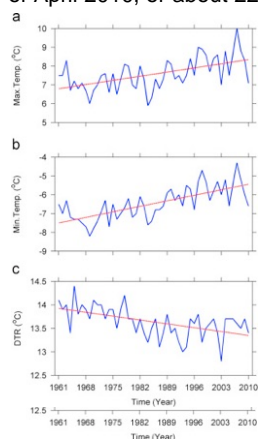
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and socio-economic sectors. According to different scenario models, there will likely be an increase in temperature which intensity is expected to be higher during the summer seasons than the winter seasons. Similar, increased projections are calculated with regard to precipitation. However, projected precipitation for the summer months are less than 10 percent, with slight decreasing projections for the 2011-2030 (2-4 percent decrease) and the 2046-2065 (0-0.4 percent decrease) periods. At the end of this century, in winter, a high intensity pattern of temperature is projected by 5.5-7.50°C in eastern and western regions of the country and by 5.0-5.50°C in the western region in summer. Winter precipitation is projected to increase by 55-75 percent in the central, western and eastern regions, whereas summer precipitation is projected to decrease by 5-10 percent in western Mongolia (Figure 3, bottom).

### Expected impacts

Mongolia is set to be significantly impacted by the effects of climate change. Although milder climatic forecasts might bring some benefits to a country such as less harsh weather conditions, these are most likely to be outweighed by significant drawbacks for the country. As mean temperatures are to rise, secondary effects such as increases in extreme weather events become more likely.

Climate change will exacerbate existing natural resource concerns due to changes in permafrost, or decreases in total glacier areas, for example. As a result, not only will the country's main water resources (lakes or surface water, for example) be significantly diminished, Mongolia will experience more desertification. Desertification has become a national disaster, affecting more than 70 percent of Mongolia's grassland. Moreover, climate related hazards such as heavy rain and snowfall, strong winds, sand and snowstorms, hail, and floods have become more and more frequent in recent years and are likely to intensify in the future. **Zud** or **dzud** – extremely harsh winters – deprive livestock of grazing and is a specific phenomenon that takes its toll in winter and spring with a high number of livestock dying of starvation. "As of end of April 2010, or about 22 percent, of the country's entire livestock, around 8 million animals, were lost as a result of the 2009-2010 winter [dzud] disaster and consequently the livelihoods of over 200,000 rural herdsman living in the affected regions were severely threatened"<sup>3</sup>. Between 2000 and 2010, droughts in Mongolia have also intensified and become increasingly frequent, inducing forest and steppe fires and causing dust and sand storms.



Ulaanbaatar is located at an elevation of 1350 meters above sea level in the Tuul valley, an arm of the Selenga river. The city is fed by downstream water supplies coming from the Upper Tuul ecosystem, which covers an area of over 5000 square kilometres. Ulaanbaatar's water supplies, therefore depend entirely on the Tuul River and recharging of the groundwater aquifers. Any changing ecological conditions in the upstream ecosystem directly impacts the availability and regularity and flow of water resources. Increasing human influence and land use pressures in the Upper Tuul due to intensive grazing, tourism, logging and harvesting have continued to deteriorate the ecosystem, and contributed to increase run off and intensification of the maximum and minimum flows of the river and increased flooding particularly over the past 15 years<sup>4</sup>.

**Figure 4. Climate Variability across Mongolia in Celsius.**  
Source: [Assessment report on climate change 2009, p. 39.](#)

<sup>3</sup> Mongolia Second Assessment Report on Climate Change, 2014, p. 14.

<sup>4</sup> [The Economic Value of the Upper Tuul Ecosystem in Mongolia, World Bank 2009, Page xiv](#)

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The Flood Risk Assessment of Ulaanbaatar also indicated annual mean temperatures have increased by 1.56 C over the past 60 years, which has led to a decrease in both duration and depth of snow cover, altered timing and length of snowmelt period, impacting on downstream flooding regimes.<sup>5</sup> This provides evidence of climate induced temperature changes being a direct consequence of the increased flooding being experienced in Ulaanbaatar and in particular to the poorly prepared Ger-areas.

### Flood risks and vulnerabilities in Ulaanbaatar

As a consequence of increased warm summer days and nights in Central Mongolia, where Ulaanbaatar is located, there has been more frequent flooding in Ulaanbaatar City. As indicated by the recent the Flood Risk Assessment (FRA) study<sup>6</sup> that looked at 35 floods that occurred within the period of 1915-2013, 60 percent of these floods took place within the decade of 2000-2010. The study states that 50 percent of these floods were of 'alluvial' type, occurring due to water flow and run-off from mountain slopes and along dry riverbeds. Besides that, Ulaanbaatar suffers from flash floods and ground water flooding. The 2003 flash floods for instance, killed 15 people, made 30 families homeless and destroyed 93 houses.<sup>7</sup> The Ger area's are hit hardest by all types of floods.

Flood issues are likely to increase in poor, unplanned areas that expand fast, mostly at the north-side of the city. As mentioned above, Ulaanbaatar is located in the Tuul valley, an arm of the Selenga river. An arm of the Tuul, the Selbe streams down from the north and ends in the Tuul at the Southside of the city. Besides the Selbe, there are many other smaller rivers that pass through the city from the north to the south. The city is surrounded by hills and many Khoroos stretch into valleys, mainly to the north, which means that these Khoroos have hills on either side.

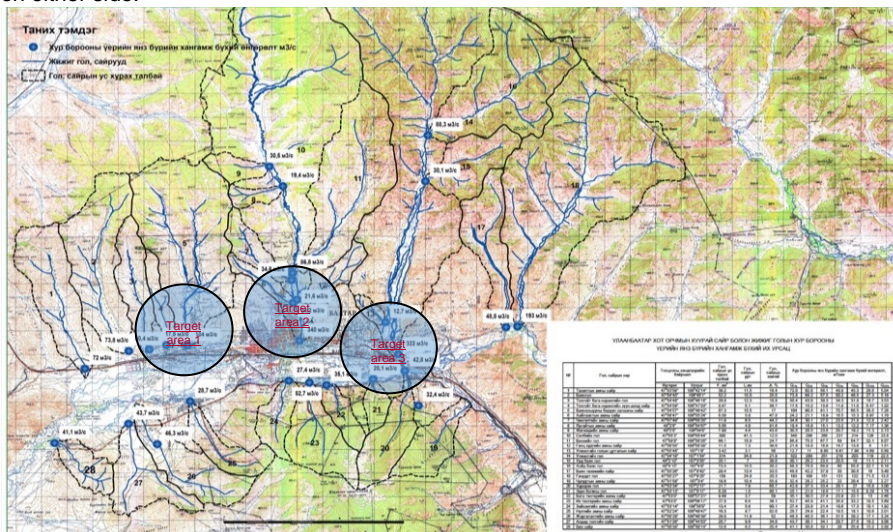


Figure 5: Ulaanbaatar river system. Target areas are along 3 rivers in the north of UB city.

<sup>5</sup>Flood Risk Assessment and Management Strategy of Ulaanbaatar City 2015-Volume 1, World Bank, Page 52

<sup>6</sup>Flood Risk Assessment and Management Strategy of Ulaanbaatar City 2015-Volume 1, World Bank, Page 13

<sup>7</sup>OCHA Mongolia flash floods situation report, 2003. Online at <http://reliefweb.int/report/mongolia/mongolia-flash-floods-ocha-situation-report-no-1>

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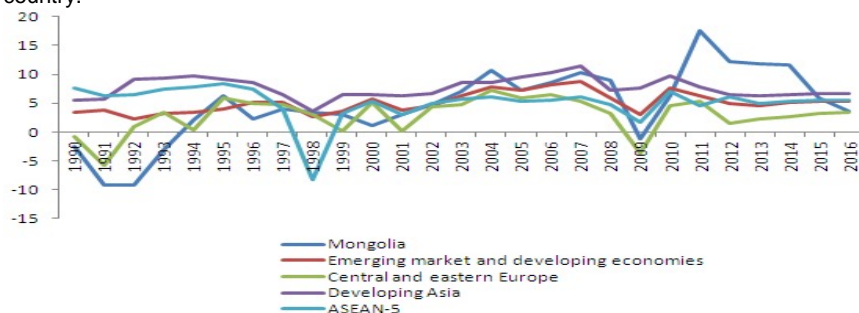
## Economic context

Mongolia was experiencing high levels of growth in 2011 due to its vast and rich natural resources, with the highest recorded growth figures of 17.5 percent globally, before the economic growth slowed down in 2012/2013 until only 0.1 percent in 2016. This was largely due to the fall in commodity prices and decrease in exports to China (95 percent of exports go to China) and a parallel decline in foreign investment that took place due to some policy changes which made international investment in the country more challenging. According to most recent statistics published by the World Bank, Mongolia's Gross National Income (GNI) amounted to US\$3,870 per capita, yielding economic growth of only 0.1 percent in 2016. This trend is projected to slightly increase with forecasted GDP growth rates of 2 to 3.7 percent for the years 2017 and 2019, respectively.<sup>8</sup>

Mongolia's economy is not very diversified and driven by two main sectors: Mineral industry and agriculture. While the country's economic base was fundamentally agricultural, its mining industry contributes to around 20.3 percent to the country's GDP, and accounts for more than 80 percent of its export and 40 percent of government revenues<sup>9</sup>. The agriculture sector, on the other hand, is failing to realize its growth potential due to fallen commodity prices and the impacts of climate change.<sup>10</sup>

Ulaanbaatar (UB City) is a key, if not the key economic region in Mongolia accounting for approximately 64 percent of Mongolia's GDP. However, UB City also experiences very high inequality with 22 percent of the city residents below the poverty line and living on 2\$ a day; with these based primarily in the Ger areas. The on-going Ger area redevelopment programmes maintain a key focus on facilitating the growth of the informal sector, for strengthening micro-small-medium enterprise (MSME) sector and improving connectivity to the urban core, as potential drivers for improving the economic conditions of Ger Areas and UB city as a whole.

The diversification of the economy toward a healthier local business environment - promoting self-sufficiency and reduction of inequalities- while moving away from extreme reliance on export commodities - is clearly the way forward to achieve more economic stability for the country.



<sup>8</sup>The World Bank, 2017. Per capita GNI is displayed using the World Bank's Atlas method, which smoothes a country's GNI per capita by price variations and exchange rate fluctuations, taking into account the year of observation and the two previous years. It further adjusts the country's own and the international rate of inflation, with the international inflation rate being the euro area, the United Kingdom, the United States and Japan since 2001. Online at <http://data.worldbank.org/country/mongolia>

<sup>9</sup> UN-Habitat – Mongolia Country Profile.

<sup>10</sup> IMF Country Report No. 03/277, p. 2.

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**Figure 6: Comparative GDP growth.<sup>11</sup>**  
**Social context**

Mongolia has a population of 3.03 million, growing at a rate of 1.7 percent annually<sup>12</sup>. Almost half (47 percent) of the country's population is currently living in its capital city (1.38 million) and the share of the urban population has increased to 67 percent of the total population<sup>13</sup>.

Since the 1990s, UB city has had limited formal extension of its core, which largely comprises apartment blocks with comprehensive utility services, including dedicated heating, water, and sanitation. However, successive waves of in-migration with Ger tents have reshaped the city's geography, with (i) little upgrading or extension of basic urban services; and (ii) government policy, since 2003, to grant each citizen about 700 square meters of land. A vast, low-density peri-urban area, commonly and collectively referred to as Ger areas, now extends around the city core- with three informal settlement tiers around the formal urban core area, the inner, middle, and fringe locations- these are characterized by unplanned settlements of low and medium income households with land ownership, un-serviced plots, unpaved roads and poor facilities. Settlement growth here is much faster than urban development and is projected to increase by another 40 percent by 2020.

Although poverty is more pronounced in rural areas, inequality, particularly in access to various services, is higher in urban areas<sup>14</sup> and especially in Ger areas where there are very low levels of public services available and very few households that are connected to the city's water distribution network.

The Ger area population is estimated at 800,000, representing 60 percent of Ulaanbaatar. Approximately 40,000-people migrate to UB city per year, of which most end up in Ger areas. Despite their size, Ger areas have until recently been considered temporary settlements. However, their official integration in the 2013 city master plan provides the necessary provision to plan the redevelopment of the Ger areas into a formal peri-urban area.

Lack of long-term planning, infrastructure investment, and land use regulation in Ger areas have resulted in haphazard development, limited availability of space for public facilities, poor access to socioeconomic services and insufficient livelihood opportunities. The lack of basic urban infrastructure is preventing people to move out of poverty.

The service gap between the city core and Ger areas means Ger residents are badly connected to the city core and poorly integrated in the urban economy, and this is one of the most urgent and difficult development challenges. While various government and development partner initiatives have significantly improved living conditions in Ger areas, approaches have generally focused on specific sectors, failing to design a sustainable vision and provide integrated solutions for the problems of peri-urban development.

<sup>11</sup><https://www.asiapathways-adbi.org/2014/04/development-via-regional-integration-mongolias-chance-for-a-prosperous-future/><https://www.asiapathways-adbi.org/2014/04/development-via-regional-integration-mongolias-chance-for-a-prosperous-future/>

<sup>12</sup>The World Bank, World Development Indicators, 2017.<http://data.worldbank.org/indicator/SP.POP.GROW?locations=MN><http://data.worldbank.org/indicator/SP.POP.GROW?locations=MN>

<sup>13</sup>United Nations Statistics Division, 2017. Online at <http://data.un.org/Data.aspx?q=mongolia+urban+d=POP&f=tableCodepercent3a1percent3bcountryCodepercent3a496><http://data.un.org/Data.aspx?q=mongolia+urban+d=POP&f=tableCodepercent3a1percent3bcountryCodepercent3a496>

<sup>14</sup>Government of Mongolia, UNDP and SIDA (2011, p87) Mongolia human development report

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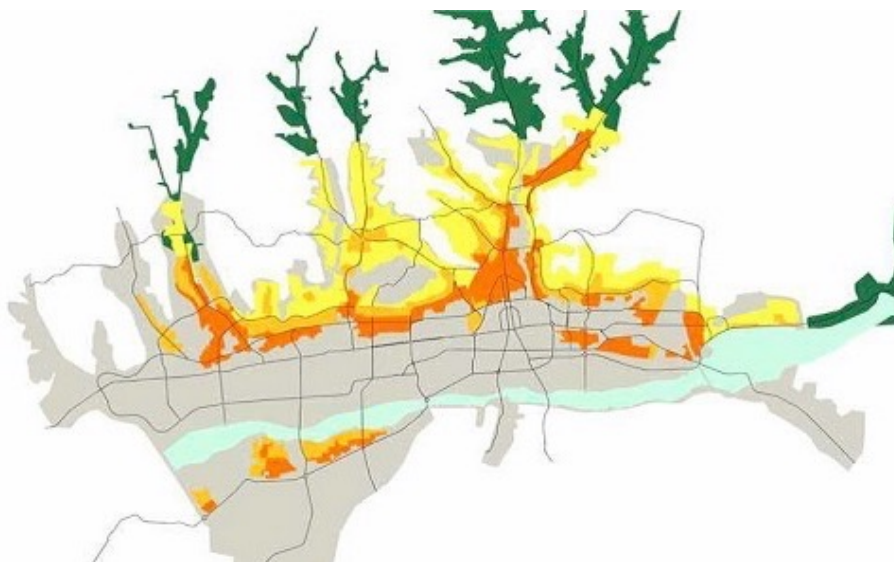


Figure 7: Ger district sections. Aqua blue-river basin, bright orange-central Ger areas, orange-middle Ger areas, yellow-peripheral Ger areas, grey-city area, green-green/camp zones. Source: Ulaanbaatar City Development Strategy-2020 and Development trend until 2030.

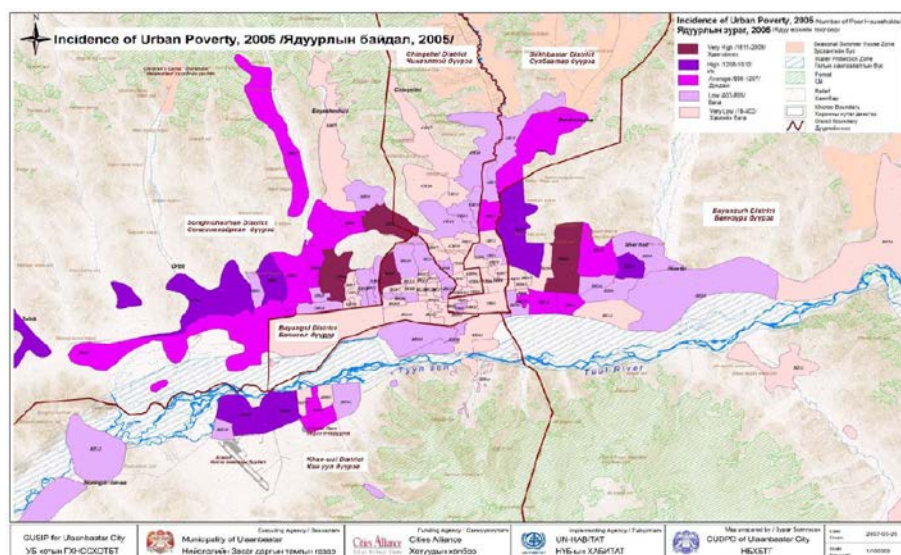
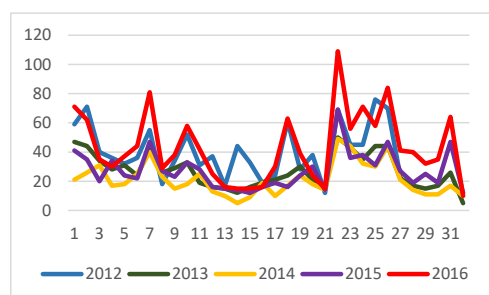


Figure 8: The Urban Poverty Profile – generated as part of the Citywide Pro-poor “Ger Upgrading Strategy and Investment Plan” (GUSIP) programme by Cities Alliance and UN-Habitat in collaboration with the Government provides a snapshot of Urban Poverty, especially in the Ger Areas of Ulaanbaatar City in 2005.

## Environmental context

The Mongolian topography is characterized by a clear north-south divide. While the north is dominated by huge mountain ranges, deep forests and steppe, the southern parts of the country are of much lower elevation, and consist of mainly parched lands such as deserts and desert steppe. A significant area of the south is covered by the Gobi Desert, one of the largest desert regions in Asia that also covers parts of northern and north-western China. Mongolia is rich in mineral resources such as gold, silver, coal, precious stones, and gravel. Its mining sector is among the driving economic forces in the country, however these industrial activities are a major cause of parts of rivers becoming heavily polluted. Rivers, such as the Tuul River for example, are not only utilized for industrial purposes, but also for household and drinking water consumption. The Tuul River is among the most polluted fresh water sources in the country. It flows through the centre of Mongolia as well as UB City.

The negative environmental impacts of city growth are urban air pollution caused by increased energy consumption and use of coal, pressure on water resources, accumulation of solid wastes, impact on forests and protected areas nearby. The city core where jobs and services are concentrated has experienced unprecedented congestion, due to rapidly increasing private vehicle ownership and use, while the urban road and public transport networks have not kept pace with this rapid growth in traffic demand.



**Figure 9: Infectious disease (hepatitis, dysentery, salmonella, food poisoning, etc.) incidents within 32 Khorroos in Songinohairkhan District during 2012-2016**

Air pollution is among the worst in the world, particularly during winter because of inadequate household heating systems, traffic jams and dust from unpaved roads. Access to water, supplied by kiosks operated by the Ulaanbaatar Water Supply and Sewerage Authority (USUG), is limited. There is a significant in-equality in access to water between ger residents who have to pay a premium for the cost of water, above all other residents/industries/businesses/institutions – it was found that the total volume of water use/consumption by ger residents (who constitute 60% of the city population) was 1.7 m3 mill/year equating to 2.1% of the total consumption by the entire city; they however pay the highest water tariffs amongst local residents at 442 Tug/m3 – higher than piped water to metered apartments (40 tug/m3), piped water to households (95 tug/m3) and even higher than piped water to industries and businesses (200 tug/m3).

In the same vein, a pressing issue to note is the significant decline in groundwater tables in Ulaanbaatar over the past 50 years. Current annual demand for water is in excess of 77 million cubic metres (supplied by USUG). With the population forecasted to rise by another 400,000

Living conditions in Ger areas are particularly inadequate. Poor sanitation—households almost exclusively rely on open pit latrines—and poor waste collection practices have created highly unsanitary living conditions. Related to this, Infectious diseases (especially dysentery and hand and mouth diseases) are increasingly becoming a problem in Ger areas where toilets often overflow, leading to water and soil pollution.

over the next 5 years, the demand will also increase significantly. Furthermore, land management practices for industry, tourism and settlements expansion upstream in the Tuul ecosystem will also have an impact on the availability of clean, regular and sufficient river flow and groundwater resources for UB city.

Upstream ecological conditions in the Tuul ecosystem therefore have a direct relation the availability of groundwater and surface water downstream in Ulaanbaatar, where demand will continue to rise.

## Project approach

With six out of every ten Mongolians living in urban areas, approaches for reducing vulnerability and increasing sustainability in urban areas will have a significant impact on national level development.

As Ulaanbaatar pursues its sustainability agenda by following the initiatives of wealthier nations through mass urbanisation, ambitious urban renewal projects and adapting the city to handle mobility issues around increasing traffic; it is at risk of ignoring the increased vulnerabilities to climate change related risks which then gradually reduces its own capacity for resilience. It is ironic that one of the historically most resilient and adaptive populations (through its nomadic heritage) is rapidly becoming one of the most at-risk and least prepared for climate change. For this process to be reversed, Mongolia's policy makers and urban planners should not only design the city as they believe it 'should be', based on archaic principles of projection-based top-down urban planning but also 'plan' the cities as a place for people -design it with the population at its core, using bottom-up community led approaches. UB City is faced with a limited, and urgent, window of opportunity to address increased vulnerabilities to climate change related risks and increase its own capacity for resilience.

At the basis of increasing urban resilience is to create incentives for the community to adapt by themselves, empowering the Ger-district communities to become the key stakeholders in their own resilience strategies. A key positive externality of such participative capacity building is the creation of a common social thread between the members of the community who have been removed from their tight-knit rural communities and find themselves living in an increasingly overcrowded environment. Stronger social ties amongst the urban poor reduces the threat of conflict and provides an essential support group post-disaster and at times of need. Without a strong and connected community at its foundation, strategies for improving their lives, including becoming more resilient to climate change, becomes very challenging. The creation of a sense of social harmony between the urban policy makers, the residents and the emergency responders allows for improved communication and the sharing of experiences which would ultimately lead to greater social resilience.

UN-Habitats' community development approach, the People's Process<sup>15</sup> lends itself to achieve this purpose very well, as successfully demonstrated by previous and ongoing projects implemented in Ger- communities on the areas of *water sanitation and infrastructure services* as well as *urban health systems strengthening, urban planning and affordable housing*, primarily in partnership with the Municipality of Ulaanbaatar and other stakeholders.

Building on the policy directions and strategies of the Government of Mongolia on climate change and resilience and complemented by consultation with national government experts, the Governor's office, District level Governor's and khoroo authorities on (i) the priority climate adaptation need for flood resilience and (ii) identification of the most vulnerable locations which experience repetitive flooding; UN-Habitat has conducted Rapid Assessments and con-

<sup>15</sup>See Annexes 5,6 People's Process brochure and Poster.

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sultations in these Ger-Areas with most at risk communities and designed the project components based on the finding of this evidence within the framework of national policies and strategies.

### Target Khoros (communities)

The Flood Risk Assessment and Management Strategy of Ulaanbaatar City supported by the World Bank, specified the most vulnerable target settlements for hazard and risk mapping and the production and improvement of adaptive infrastructure, which were: (1) Tolgoit zuunsalaa, (2) Mon Laa (3) District III, IV flood control levee (4) Selbe river (5) Gorkhi and (6) Baatarkhairkhan Uliastai river. These are located on the territories of i) 12, 13, and 14<sup>th</sup> khoros of Sukhbaatar district; ii) 21, 27, 8, 23<sup>rd</sup> khoros of Bayanzurkh district; iii) 25, 7<sup>th</sup> khoros of Songinokhairkhan district; and iv) 9<sup>th</sup> khoroo of Bayangol district<sup>16</sup>.

Further consultation with Governor's and the three (3) district authorities of SonginoKhairkhan, Sukhbaatar and Bayanzurkh districts identified the below 7 khoros (sub-districts) as the most vulnerable in terms of either being impacted by floods or areas from which run-off takes place on a frequent basis. These districts fall amongst the biggest in terms of population size and the fastest growing in Ulaanbaatar. The 7 Khoros have a total population of 88,839.

In these areas, in summer, when ice melts and rain falls, water comes down from the northern hills, leading to floods around gully's and rivers. These floods affect houses, other assets and lead to overflow of latrines, heavily polluting water and soil, which in turn lead to increased incidents of disease often affecting children. Extreme flood incidents are also increasingly recorded in Ulaanbaatar, not only destroying houses and assets, but also causing death. This is especially relevant in Khoroo (i.e community) 24, where new informal settlers have started to move into the riverbed. In the downhill / lower-lying Khoros, another problem besides floods is stagnant water build-up and rising groundwater. This stagnant water, which is polluted due to overflow of the latrines, often from upstream, can stay for months and impedes the mobility of residents and access to critical services, with cars, ambulances, fire trucks, etc. not being able to enter the Khoroo. After the summer, the stagnant and polluted water freezes to then melt again in summer.

From a technical perspective, the situation is aggravated by non-existent or not properly designed drainage systems and low-quality and basic design latrines that not take into account flood risks. Besides that, there is limited awareness of flood risk zones and health risk. As mentioned above, people build their houses in the middle of the river or in the path of gully's. Moreover, pit latrines are sometimes emptied on the street.

### Overview of 3 target areas and localized climate change / flood impacts and resilient building needs

#### Area 1: Songino-khairkhan district (north-west) Khoros 24, 25 and 7

Khoroo 24 and 25, which are located between hills in the west and east and above Khoroo 7, experiences floods gullies from the west and east and in the case of Khoroo 24, from the river coming from the north. The main issues here is new informal settlers moving into the river bed and sanitation issues due to floods. The polluted flood water going down then enters Khoroo 7, which also receives polluted flood water from 25 in the north-east. Besides that, stagnant water is considered a big problem as it causes health issues and limits access. Due to high

<sup>16</sup>Flood Risk Assessment and Management Strategy of Ulaanbaatar City 2015-Volume 1, World Bank, Page 3

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population density and prevalence of above issues, this is considered the hotspot area of this project.

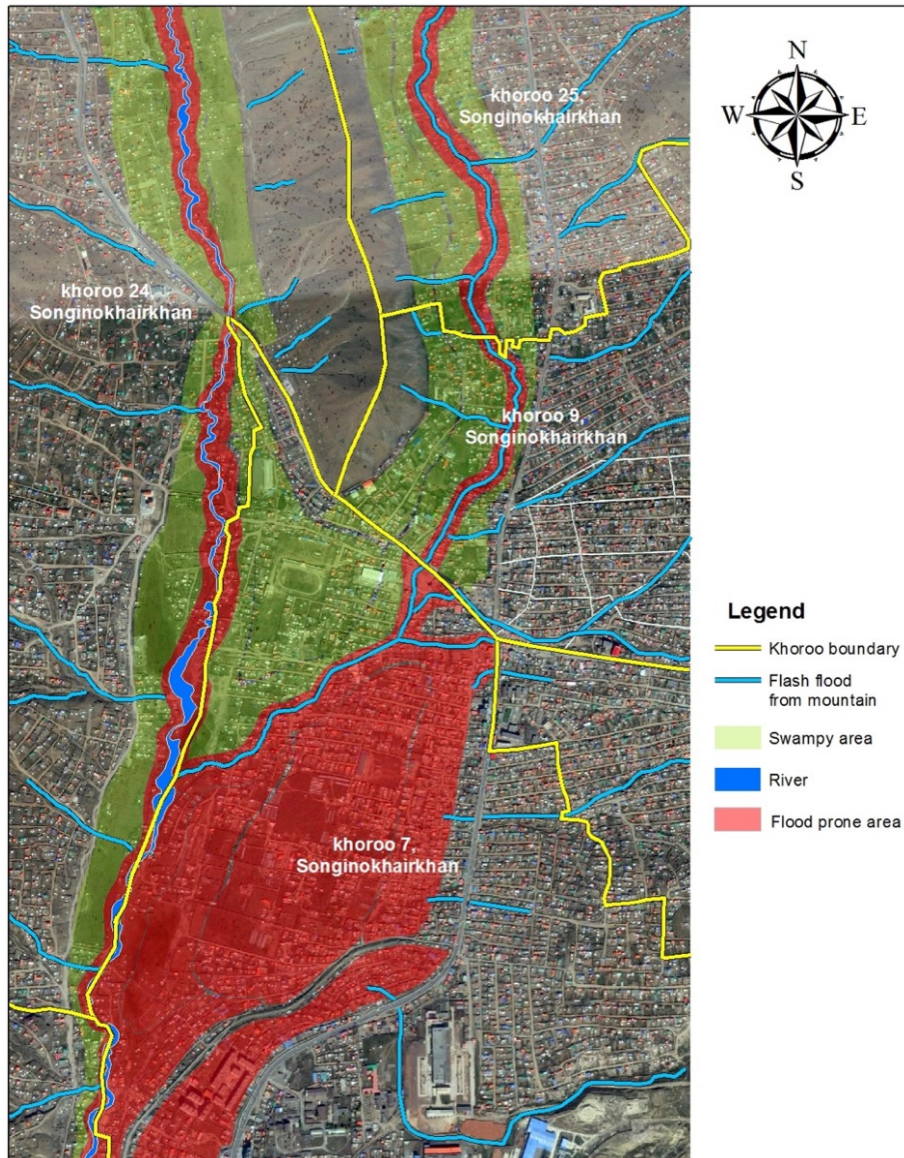


Figure 10: Area 1- Songino-khairkhan district (north-west) Khoros 24, 25 and 7 localized climate change / flood impacts



## Area 2: Sukhbaatar district (north-central) Khoroo 12, 13 and 16

Khoroo 12, 13 and 16 are located next to the main Selbe river. Khoroo 16, on the east side, experiences floods from the river and is muddy / wet, leading to extremely poor sanitation issues. The same muddy / wet situation continues in Khoroo 12 and 13 on the west side of the river. However, these two khoros are protected from the river by walls on the east side and the water here, comes from flash floods from the hills to the west



#### Legend

- Khoroo boundary
- Swampy area
- River
- the area affected by rain water coming from road
- Flood prone area

Figure 11: Area 2: Sukhbaatar district (north-central) Khoroo 16 localized climate change / flood impacts

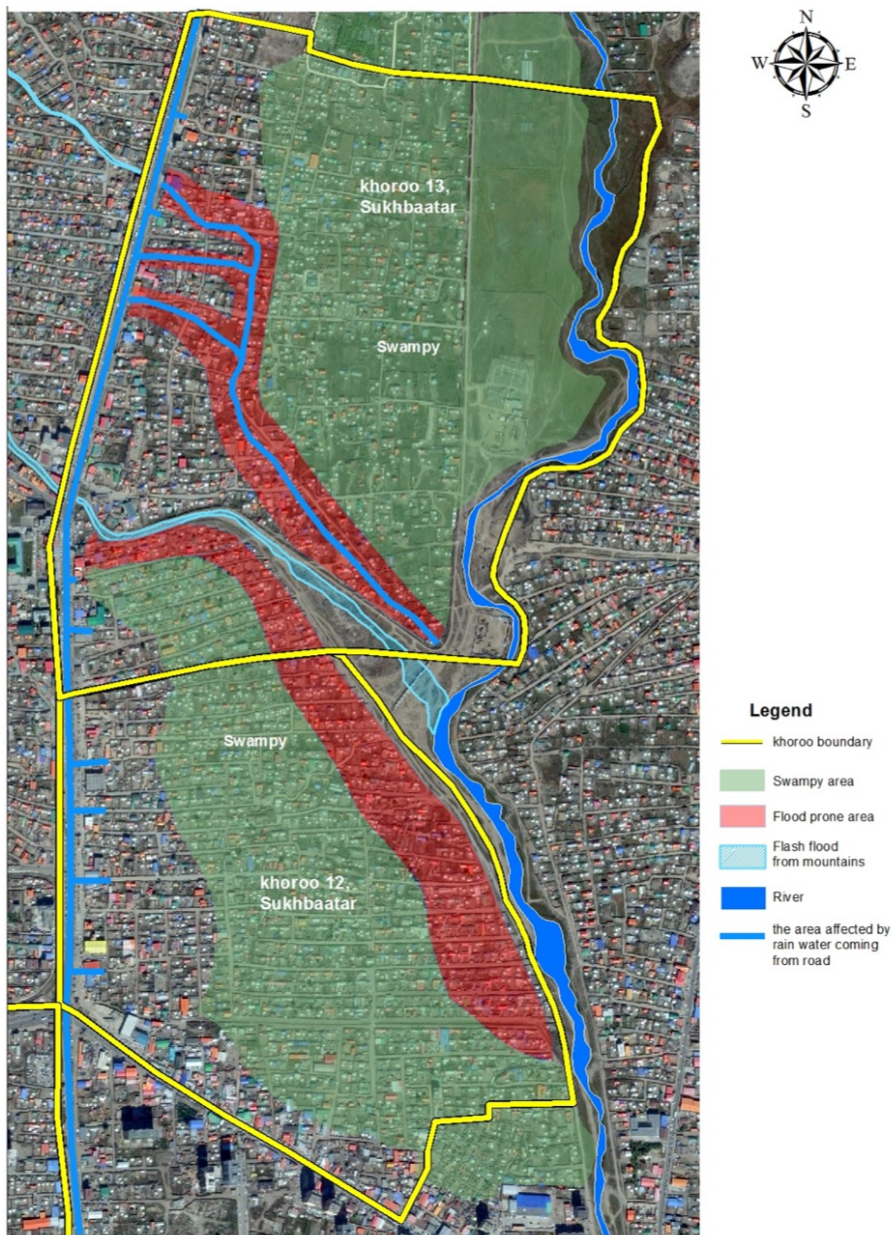


Figure 12: Area 2: Sukhbaatar district (north-central) Khoroo 12 and 13 localized climate change / flood impacts



### Area 3: Bayanzurkh district (north-east). Khoroo 9

Khoroo 9, which is located next to a hill in the north and the main Uliastai river on the east experiences floods from both the hill and a secondary arm of the river. This water from the arm flows south into an informal area literally through house plots. In this area, there is also a problem of stagnant water and sanitation overflow. In the center of the Khoroo, a school and hospital and the south-eastern part are of risk of floods from gullies from the north-west. Khoroo 9, as can be seen by the prevalence of floods, as the second flood hotspot risk area.



Figure 13: Area 3: Bayanzurkh district (north-east). Khoroo 9 localized climate change / flood impacts

Table 1 below provides an overview of the target Khorooos with the localized climate change impacts and effects, vulnerabilities, barriers to adaptation and prioritized concrete resilience building interventions by the communities. It is clear that the main problems are river and flash floods, water and soil pollution due to overflow of pit latrines and muddy / swampy areas, caused by a combination of floods and groundwater coming to the surface. In summer, these muddy / swampy areas are not accessible to cars, ambulances, fire trucks, etc. and difficult to cross by foot. In winter, these areas are frozen.

When examining the disaggregated population data, it becomes clear that the demographic of these ger populations resembles that of a developing country with a high prevalence of youth /children\* at more than 30%. The characteristics of such populations are high dependency ratio of younger population over the older/working population accompanied by a smaller percentage of older population who also have a shorter life expectancy of around 60 years.

\*Moreover, youth by UN definition, falls within the 18-30 year age group and the under 18 age group are classified as children – so the proportion of children and youth amongst these Ger-populations are likely to be even higher and possible more than 50% prevalence.

The project proposal has considered taking an approach which prioritizes the involvement of youth in project activities even though earlier attempt to do so have shown little success. Women on the other hand are very active in the communities as well as the government.

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Therefore, the project will especially target women committees and particularly younger women/youth within the 18-30 age group. The project will also make efforts, through focus group discussions for instance, to identify barriers to youth involvement in project activities as well as identify opportunities and synergies for their involvement, during implementation of community led 'People's Process' activities.

**Table 1:** Target areas, local climate change impacts and effect, vulnerabilities, barriers to adapt and prioritized concrete resilience building interventions

Kho-roo	Popu-lation / bene-fi-ciaries	Main climate change impacts / Hazards	Effects on communities	Underlying vul-nerability	Barriers to adapt	Resilience building interventions priori-tized by community
District: Songino-khairkhan (north-west)						
7	<b>20.128</b> Households: 5510 (3,7 per house) Women: 10.259 >65: 775 <18: 6241 Disabled: 254	<ul style="list-style-type: none"> <li>- Floods from Khoroo 24 and 25</li> <li>- Flash floods</li> <li>- Stagnant water</li> <li>- Harsh winter and air pollution</li> </ul>	<ul style="list-style-type: none"> <li>- Flood leading to damaged / de-stroyed assets and toilet overflow and water / soil pollution</li> <li>- Diarrhoea and other infectious disease are caused by water / soil contamination</li> <li>- Muddy area in summer resulting in cars, ambulances, etc. not able to enter</li> </ul>	<ul style="list-style-type: none"> <li>- High poverty</li> <li>- Limited basic services</li> <li>- No secondary drainage system and waste from ceramic industry</li> </ul>	<ul style="list-style-type: none"> <li>- Limited financial means / no Khoroo budget for flood control</li> <li>- Lack of awareness and empowerment</li> <li>- Lack of community self-or-ganization</li> <li>- Lack of central sewerage sys-tem to dispose grey water and for connecting latrines</li> </ul>	<ol style="list-style-type: none"> <li>1. Flood reduction / drainage measures</li> <li>2. Address latrine over-flow / water &amp; soil pollution</li> <li>3. Address problem of muddy areas</li> </ol>
24	<b>13.689</b> Households: 4040 (3,4 per house) Women: 7145 >65: 706 <18: 2736 Disabled: 45	<ul style="list-style-type: none"> <li>- Floods</li> <li>- Flash floods</li> <li>- Strong wind and storm</li> <li>- Harsh winter and air pollution</li> </ul>	<ul style="list-style-type: none"> <li>- Floods causing high risk of informal settlers in river bank.</li> <li>- Flood leading to damaged / de-stroyed assets and toilet overflow and water pollution</li> <li>- Diarrhoea and other infectious disease are caused by water / soil contamination</li> </ul>	<ul style="list-style-type: none"> <li>- Informal settlers (immigrants) in riverbed</li> <li>- High poverty</li> <li>- Limited basic services</li> </ul>		<ol style="list-style-type: none"> <li>1. Flood reduction / drainage measures</li> <li>2. Address latrine over-flow / water &amp; soil pollution</li> <li>3. Land use / street planning</li> </ol>
25	<b>13.680</b> Households: 3488 (3,9 per house) Women: 7082 >65: 1536 <18: 4801 Disabled: 290		<ul style="list-style-type: none"> <li>- Flood leading to damaged / de-stroyed assets and toilet overflow and water pollution</li> <li>- Diarrhea and other infectious disease are caused by water / soil contamination</li> </ul>	<ul style="list-style-type: none"> <li>- High poverty</li> <li>- Limited basic services</li> </ul>		<ol style="list-style-type: none"> <li>1. Flood reduction / drainage measures</li> <li>2. Address latrine over-flow / water &amp; soil pollution</li> <li>3. Land use / street planning</li> </ol>
District: Sukhbaatar (north-central)						
12	<b>7.162</b> Households: 2182 (3,3 per house) Women: 3585 >65: 416 <18: 2446 Disabled: 213	<ul style="list-style-type: none"> <li>- Floods</li> <li>- Flash floods</li> <li>- Stagnant water</li> <li>- Harsh winter and air pollution</li> </ul>	<ul style="list-style-type: none"> <li>- Flood leading to damaged / de-stroyed assets and toilet overflow and water /soil pollution</li> <li>- Diarrhoea and other infectious disease are caused by water / soil contamination</li> <li>- Muddy area in summer resulting in cars, ambulances, etc. not able to enter</li> </ul>	<ul style="list-style-type: none"> <li>- High poverty</li> <li>- Limited basic services</li> <li>- Poor or non-ex-istent drainage system</li> <li>- Dam situated in the middle of the khoroo is highly polluted</li> </ul>	<ul style="list-style-type: none"> <li>- Limited financial means / no Khoroo budget for flood control</li> <li>- Lack of awareness and empowerment</li> <li>- Lack of community self-or-ganization</li> <li>- Lack of central sewerage sys-tem to dispose grey water and for connecting latrines</li> </ul>	<ol style="list-style-type: none"> <li>1. Flood reduction / drainage measures</li> <li>2. Address latrine over-flow / water &amp; soil pollution</li> <li>3. Address health is-sues</li> <li>4. Address problems related to ground water coming up</li> </ol>

				- Low elevation	- Police and khoroo office's co-operation is weak in surveillance of garbage disposal	
13	<b>9.136</b> Households: 2522 (3,6 per house) Women: 4617 >65: 281 <18: 2879 Disabled: 239				- See above - Residents try to fix canals but lack professional know how - 5 people are in charge of cleaning the khoroo for small salary but it is not stable as cleaning happens only before important events or national holidays	1. Address swampy / muddy issue caused by flood water 2. Flood reduction / drainage measures 3. Address latrine overflow / water & soil pollution
16	<b>11.945</b> Households: 3127 (3,8 per house) Women: 6128 >65: 466 <18: 4329 Disabled: 288	- Flood from the main river Flash floods - Harsh winter and air pollution		- High poverty - Limited basic services - Poor or non-existent drainage system - Waste and burnt materials comes down from waste recycle center	- Limited financial means / no Khoroo budget for flood control - Lack of awareness and empowerment - Lack of community self-organization - Lack of central sewerage system to dispose grey water and for connecting latrines	1. Flood reduction / drainage measures 2. Address swampy / muddy issue caused by flood water 3. Address latrine overflow / water & soil pollution
<b>District Bayanzurkh (north-east)</b>						
9	<b>13.701</b> Households: 3785 (3,6 per house) Women: 6994 >65: 239 <18: 4980 Disabled: 537	- Floods - Flash floods - Heavy air pollution in winter	- Flood leading to damaged / destroyed assets and toilet overflow and water / soil pollution - Diarrhea and other infectious disease are caused by water / soil contamination	- High poverty - Limited basic services - Poor or non-existent drainage system - Lack of toilets at last bus stop	- Limited financial means / no Khoroo budget for flood control - Lack of awareness and empowerment - Lack of community self-organization - Lack of central sewerage system to dispose grey water and for connecting latrines	1. Address latrine overflow / water & soil pollution 2. Flood reduction / drainage measures 3. Address health issues

During the rapid assessment and consultations of these Khorooos by the UN-Habitat community mobilization team (see full assessments link in the consultation section), the areas on the maps below have been identified and confirmed by the communities as high-risk flood areas.

## Flood impacts in target communities – in photos

Songino-khairkhan district 7<sup>th</sup> khoroo (Rain in 2017.06.20)



Flooding of main road sinkhole constructed by the Geodetic Water Facility Office of the Housing Authority (UN-Habitat June 2017)



Polluted Photo (UN-Habitat June 2017)







Basement of the 12<sup>th</sup> apartment of Khilchin hothon – flood water and ground-water penetrating from the walls and floors leading to power cut restriction of 670 households *Photo (UN-Habitat June 2017)*



Flood due to lack of flood sewage and canal in households near 0119<sup>th</sup> military unit and 1-4 streets *Photo (UN-Habitat June 2017)*

## 2. Project Objectives

### Main objective

The main objective of the proposed project is to **enhance the climate change resilience of the seven most vulnerable Ger khoroo settlements focusing on flooding<sup>17</sup> in Ulaanbaatar City** by:

1. Improving the knowledge on flood hazard and risk exposure and vulnerability for these areas
2. Improving the resilience and adaptive capacity of the Ger settlements through a Community-Based approach (i.e. building social cohesion per Khoroo)
3. Increasing resilience Ger area physical infrastructure and services, supported by enhanced capacities of responsible district level and khoroo authorities.
4. Strengthened institutional capacity to reduce risks and capture and replicate lessons and good practices

The main component of the project will be the provision of flood resilient physical infrastructure and services, building on the priorities as communicated by the UB city authorities and Khoroo communities; evidence made available and supplemented with hazard and risk mapping and land use planning; and delivered within the framework of enhanced capacities and awareness for resilience and risk reduction at Ger -district and community level.

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<sup>17</sup>As identified in the Flood Risk Assessment and Management Strategy of Ulaanbaatar City supported by the World Bank

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### 3. Project Components and Financing

**Table 2:** Project components and financing

Project Components	Expected Concrete Outputs	Expected Concrete Outcomes	Amount (US\$)
<b>Component 1</b>  National/City Level Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at UB City level.	<b>Output 1.1</b>  <b>One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan</b> , with legal framework recommendations and a specific focus on flood risk reduction - building on 1.2 <sup>18</sup> *(includes the three (3) high risk target districts covering the seven (7) most vulnerable khoroos)	Relevant threat, hazard information, evidence and recommendations (on land use and zoning) generated for increasing resilience at the city level	91,790
	<b>Output 1.2.</b>  <b>Simulation model</b> for forecasting future impacts of climate change flooding in UB city & Ger-areas established. <sup>19</sup>	(In line with AF outcome 1: reduced exposure at national level (which is also city level in Mongolia) to climate-related hazards and threats).	60,000
	<b>Output 1.3</b>  <b>Seven (7) Detailed Ger-khoroos level Land Use Plans</b> with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people <sup>20</sup>		250,000
	<b>Total</b>		<b>401,790</b>
	<b>Component 2</b>  Khoroo/Community level Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroos and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3).	<b>Output 2.1</b>  <b>Seven (7) Khoroo-level floods resilience action plans</b> to implement the interventions identified under component 3; A series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3. <sup>21</sup>	Target community members are aware of resilience building and climate risk reduction processes and have ownership over proposed interventions at the District, Khoroo and community level
<b>Output 2.2</b>  <b>Khoroo community level interventions operation &amp; maintenance* and awareness campaigns and trainings</b> to support the sustainable implementation of interventions under component 3.		(In line with AF outcome 3: strengthened awareness and ownership of adaptation and climate risk reduction processes at local level).	212,000
<b>Total</b>		<b>407,000</b>	

<sup>18</sup> In line with National priority: Nationally Determined Contribution: Relevant adaptation needs: to conduct disaster risk assessments at local and sub-national levels. Also in line with national priority: Green development policy 2014-2030: 6) Develop and implement a population settlement plan in accordance with climate change, while considering the availability of natural resources and the resilience of regions. Also in line with Ulaanbaatar municipality Flood Risk Assessment and Flood Risk Management Strategy (FRMS) of Ulaanbaatar City.

<sup>19</sup> In line with National priority: National Action Programme on Climate Change: 4) Enhance the national climate observation, research and monitoring network and strengthen employees' capacity.

<sup>20</sup> In line with National priority: Green development policy 2014-2030: 6.2. Reduction of air, water and soil pollution by implementing improved plan for urban land use, construction zoning and infrastructure and creating appropriate legal framework on accountability

<sup>21</sup> In line with National priority: National Action Programme on Climate Change: 5) Conduct public awareness campaigns and support citizen and community participation in actions against climate change

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	An Estimated 20.nos. of trainings <i>*(Awareness will also cover potential risks mitigation)</i>		50,000
	<b>Output 2.3</b> <b>Technical studies – Engineering and hydrological</b> - required to implement the interventions under component 3.		
		<b>Total</b>	<b>458</b>
<b>Component 3</b>  Enhance resilience of community level flood protection assets	<b>Output 3.1.</b> <b>Physical assets developed or strengthened in response to climate change related flood impacts</b> as prioritized (by <del>Khoroo</del> <b>Khoroo communities the core concrete interventions are flood protection and drainage infrastructure<sup>22</sup> and resilient sanitation<sup>23</sup> to reduce floods impacts</b> – implemented through community contracting.	<b>Outcome 3.1</b>  Increased adaptive capacity within prioritized community assets (In line with AF outcome 4: increased adaptive capacity within relevant development and natural resource sectors).	<b>2,225</b>
	<b>Output 3.2</b> <b>Management &amp; operations; design &amp; supervision of assets / physical infrastructure to comply with national and local regulations and processes</b> – procured as consulting services		<b>418</b>
		<b>Total</b>	<b>2,644</b>
<b>Component 4</b>  Awareness raising, knowledge management and communication	<b>Output 4.1.</b>  <b>Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities</b> , civil society, and policy-makers in government appropriate mechanisms.	<b>Outcome 4.1.</b>  Institutional capacity strengthened to develop and replicate this approach  (In line with AF outcome 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses).	<b>244</b>
	<b>Output 4.2</b> <b>Workshops and trainings</b> will be organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans. <sup>24</sup>		
		<b>Total</b>	<b>244</b>
<b>5. Total components</b>			<b>3,749</b>
<b>6. Project/Programme Execution cost</b>			<b>393</b>
<b>7. Total Project/Programme Cost</b>			<b>4,143</b>

<sup>22</sup> In line with Ulaanbaatar municipality priority: Ulaanbaatar 2020 master plan and development approach for 2030: Storm water and flood management: Engineering flood protection measures will include managing infrequent spring floods, draining rainwater from roads and squares, securing groundwater, strengthening channels and reducing land degradation.

<sup>23</sup> In line with National priority: Green development policy 2014-2030: 2.9. Increase the capacity and productivity of water supply and sewerage facility, provide at least the 90percent of the population with drinking that meets hygiene standards, and provide access to improved sanitation to at least the 60 percent of the population.

<sup>24</sup> In line with national priority: National Action Programme on Climate Change: 1) Set the legal environment, structure, institutional and management frameworks for addressing on climate change.

8. Project/Programme Cycle Management Fee charged by the Implementing Entity	356,136
Amount of Financing Requested	4,499,295

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Table 3: Projected Calendar

Milestones	Expected Dates
Start of Project/Programme Implementation	09-2018
Project/Programme Closing	09-2022
Terminal Evaluation	09-2022

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## PART II: PROJECT / PROGRAMME JUSTIFICATION

### A. Project components

The seven target Ger communities in Ulaanbaatar are characterized by a high exposure to multiple climate hazards ranging from wind and dust storms, air pollution and particularly by floods - found to be the main climate issue that required urgent addressing by the communities during the risk and needs assessment and consultations; prioritized as a key adaption issue by municipal government; as evidenced in city/national risk assessments and subsequently stated in city/national level climate strategies and plans .

Ulaanbaatar's climate sensitivity is underpinned by rapid urbanization driven by massive population growth; and is leading to people residing in high-risk unplanned areas, in unsanitary conditions, engaging in unhygienic behaviour, all of which exacerbates public health risks. Underlying vulnerabilities are poverty, limited social ties trust and cohesion, limited access to basic services and environmental degradation. Moreover, the adaptive capacities at household, community and governance level are barriers for change as there exists very limited knowledge and awareness of risks and their vulnerability.

To achieve the overall project objective, **“enhance the climate change resilience of the seven most vulnerable Ger khoroo settlements focusing on flooding<sup>25</sup> in Ulaanbaatar City”** the project will focus on soft and hard components: combining horizontally and vertically interrelated resilience strengthening of national and city institutions, local government and khoroo<sup>26</sup> communities; and resilience building measures for their physical, natural and social assets.

The project intends to promote and improve vertical inter-departmental collaboration particularly by facilitating engagement between the Ministry of Environment and Tourism and the Municipal authorities at all levels, as a key gap that has not yet been addressed in Mongolia is the rollout and implementation of national level climate policies and strategies at the urban level. Furthermore, capacities for resilience building within Districts and khoroo are weak, with pressing demands for urban services & development, in the face of rapid expansion, overburdening local authorities. Therefore, the level of collaboration around the issues of urban resilience and climate adaptation between local authorities at District and khoroo level as well as with communities, have been minimal to date. There is, however, significant emergency and disaster response capacity in rural and urban areas, through the National Emergency Management Agency (NEMA) - the project will thus work with the NEMA team under the Municipality, particularly harnessing existing capacities for the advocacy and training components for local authorities and communities and streamlining with on-going initiatives as necessary. Therefore, institutional capacities and information sharing will be strengthened and harmonized horizontally between different technical institutions responsible for climate resilience, environmental protection and risk reduction activities as well as local authorities within the Municipality, whilst also broadening the vertical outreach of these institutional and municipality to high-risk communities. This integrated approach will also allow for completion of feedback loop to inform and develop future urban climate policies, strategies and frameworks, building on the comprehensive adaptation measures to be implemented at city, district and khoroo community level.

<sup>25</sup>As identified in the Flood Risk Assessment and Management Strategy of Ulaanbaatar City supported by the World Bank

<sup>26</sup>Khoroo - sub-district

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By taking a comprehensive approach of national policy-level institutional capacity strengthening at city, district and khoroo level including support for community level actions for resilience building, that respond to current and future needs, all actions will benefit the inhabitants of the Ger settlements while aiming to sustain the identified concrete adaptation measures. This combination of soft and hard interventions, will contribute to sustainably strengthening local resilience particularly at the household, community and informal settlements level.

The core focus on concrete adaptation measures also lends 'voice' to the priorities of the high-risk communities and vulnerable Ger-residents demonstrating quick impact within the duration of the project. Through showcasing impact, the project intends to generate 'demand'; and supply the software, tools and methodologies necessary to urban authorities for replication of these best-practices and community led approach, to other high risk Ger communities.

The specific needs of women, recent migrants and youth (18-30 years) will be considered at all stages of the project. This is achieved through engaging representatives of these vulnerable groups in community and stakeholder consultations through the community-based approach (i.e. the people's process)<sup>27</sup> – where community primary groups are formed and sustained throughout all stages of the project and through which communities participate in project implementation: in planning, executing activities and monitoring. Given the predominance of youth and young population within the Ger demographic – a key focus will also be to target involvement of young women and men during the community level project consultations and planning, and identify opportunities for their engagement during implementation and monitoring; as well as in the knowledge dissemination and awareness building component.

Table 4 below provides an overview of proposed core interventions and activities and supporting activities required to operate and maintain (and mitigate potential risks) of these concrete interventions. Before this table, there a short description of the proposed concrete interventions in the target areas is provided.

**Component 1:** Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at the city, District and Khoroo level.

In line with AF outcomes 1 and Mongolia and Ulaanbaatar Government priorities (see section D), this component will focus on reducing vulnerability to climate-related hazards and threats both at the city/town and community level by:

- 1.1. Developing **(1) Ulaanbaatar northern Ger-Area\* Territorial Land Use Plan**, with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on 1.2 *\*(includes the three (3) high risk target districts covering the seven (7) most vulnerable khoros)*
- 1.2. Developing a simulation model for forecasting future impacts of climate change flooding in UB city & Ger-areas
- 1.3. Developing seven (7) Detailed Ger-khoroo level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people

The information generated and included in the land use plans and simulation model will allow the municipality, district authorities and khoroo communities to understand climate change

<sup>27</sup> Please refer to Annex 5 for more details about UN-Habitat's community engagement approach – The People's Process

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related impacts and risks and to identify appropriate, community specific resilience interventions based on this information (this in addition to the concrete interventions that will be implemented under this project). This component is required because the current information on climate change impacts and risk (e.g. the World Bank flood risk assessment) is not detailed enough to identify appropriate risk reduction and resilience building interventions at the community level, including information that advocate for reduction/prevention of people moving into high risk areas. The plans will also include land re-adjustment and further planning options for plots, roads, assets, etc., by taking into account hazard risks, whilst also addressing other sector needs.

A northern Ger-Area Territorial Land Use Plan, including zoning and legal framework recommendations, is further required for a holistic planning approach of the Ger areas. It is important to note here that the vast majority of the urban sprawl and Ger-areas are concentrated in the north of UB city.

All information collected, and assessment reports, plans and strategies will be made available on a digital format in Mongolian and English and uploaded on the Municipality of Ulaanbaatar's web portal and spatial database. The simulation model will be launched online by the Ministry of Environment and Tourism and linked to the cities' environmental and geospatial databases.

**Component 2:** Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroo and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3).

In line with AF outcomes 3 and Mongolia and Ulaanbaatar government priorities (see section D), this component will focus on strengthening awareness and ownership of adaptation and climate risk reduction processes and capacity by:

- 2.1. Developing seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; a series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3. Developing seven (7) community-level High-risk Ger areas resilience action plans.
- 2.2. Khoroo-level interventions operation and maintenance (and potential risks mitigation) awareness campaigns and trainings to support the sustainable implementation of interventions under component 3. An estimated twenty (20) number of trainings will be conducted.
- 2.3. Technical studies – Engineering and hydrological - required to implement the interventions under component 3.

This component aims at fully involving communities in the planning and execution of the proposed interventions under component 3; to ensure the proper operation and maintenance (and implementation of potential risk mitigation measures) of these interventions through community involvement. Under component 3, Khoroo communities will be directly contracted to execute the concrete interventions. The Khoroo communities will develop plans to execute these interventions, including management and maintenance arrangements. In parallel with these plans, technical engineering and hydrology studies will be conducted to ensure the assets are properly designed.

To ensure inhabitants are aware of the main issues and risks (including environmental and

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social risks of interventions) in their communities and to be able to respond to these issues and risks, awareness raising campaigns will be set-up and trainings conducted.

For the management and maintenance of flood resilient infrastructure, UN-Habitat proposes to build on the role and functions of the Community Development Councils (CDC's) that are formed as part of the People's Process for all projects and that are currently operational or have been operational - and will be strengthened by community nomination of members specifically to oversee the implementation, management and monitoring of community assets and infrastructure which help adapt to increased flooding management. These CDC's will also be the key recipients of community level trainings.

The Ministry of Environment and Tourism and other key stakeholders will be invited to participate/observe the implementation of People's Process at the urban level and provide technical advisory inputs.

### Component 3: Enhance resilience of community level flood protection assets

In line with AF outcomes 4 and Mongolia and Ulaanbaatar government priorities (see section D), this component will focus on increasing the adaptive capacity of relevant development and natural resource sectors by:

**4.1.3.1.** Developing or strengthening physical assets in response to climate change related flood impacts as prioritized by Khorooos.

**4.2.3.2.** Management and operations design & supervision of assets / physical infrastructure – procured as consulting services.

During the rapid Khoroo-level vulnerability assessment, prioritization and vulnerable groups consultations, communities identified and confirmed two main concrete resilience building interventions: improved drainage systems to reduce floods and improved sanitation systems that won't overflow during floods and lead to health issues.

Thus, these interventions have been selected to respond to the most pressing Khoroo-specific climate change hazards.

As this would be the first time to implement the Peoples Process in some of the proposed Ger-areas it is critical that the local authorities and communities are exposed to the rigorous and complex combination of implementation and monitoring approaches and guidelines that will be put in place; from technical compliance and quality to management accountability, transparency and safe-guarding the rights-based approach of the People's Process. An international advisory technical team, familiar with the roll-out of the People's Process closely working with the national execution team to adapt the approach to suit the local context, – with all its' cultural, community, institutional and legal dynamics - will be critical to ensure the success of the implementation. .

### Component 4: Awareness raising, knowledge management and communications.

In line with AF guidelines and outcome 2 and Mongolia and Ulaanbaatar government priorities (see section D), this component will strengthen urban-level institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses, especially related to floods and ensure the project implementation is fully transparent, all stakeholders are informed of products (tools, methodologies, approach) and results and have access to these for replication.

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Furthermore, the People's Process approach will need to be championed by the members of the Project Advisory Board – in particular to facilitate the required legal and institutional mechanisms to make the Peoples Process and its tools – Community Implementation Agreements (CIA) - functional for the Mongolian context. Therefore, there will need to be a specific advocacy/training session to secure high-level buy in from PAC at the onset of the project

To this end:

- 4.1. Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government through appropriate mechanisms.

Lessons learned on increasing the flood resilience of communities need to be captured; and municipal and district level government officials exposed to these principles and trained on lessons learned to ensure buy-in and the sustainability of this project for effective replication of best practices.

- 4.2 Workshops and trainings will be organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans.<sup>28</sup>

Trainings will be held for city- and district government officials from other potential high-risk areas on the project approach and knowledge generated for replication based on demand by the communities and local authorities. A specific component targeting advocacy to the Project Advisory Committee will be conducted at the onset of the project to ensure buy-in of high level policy and decision makers on the project approach and for application of results and knowledge to add value and improve existing policies, strategies and plans.

All knowledge products generated will be made available on a digital format in Mongolian and English and uploaded on the Municipality of Ulaanbaatar's web portal and spatial database. The simulation model will be maintained by the Ministry of Environment and Tourism and be an on-going data-sharing and risk analysis collaboration between the Municipality of Ulaanbaatar and the Ministry.

## Proposed concrete interventions in target areas (component 2)

As a response to the Khoroo-specific climate change resilience building needs identified in Table 1, the project will concentrate on two main concrete interventions (to address flood risks and related water pollution and health risks due to flooded latrines: 1) Flood protection and drainage infrastructure and 2) flood resilient latrines. The interventions focus on impacts in the hot spot areas of the target Khoros, while maximizing (downstream) benefits. Importantly, to ensure effective operation and sustainability / maintenance of the project interventions, supporting activities have been identified.

The two main interventions are described in the table 4 below with the risk assessment sheets providing more detailed information. Table 4 below provides an overview of the three target areas and an overview of the resilience building rationale.

### Overview of 3 target areas and proposed flood resilience building interventions

Area 1: Songino-khairkhan district (north-west) Khoros 24, 25 and 7

<sup>28</sup> In line with national priority: National Action Programme on Climate Change: 1) Set the legal environment, structure, institutional and management frameworks for addressing on climate change

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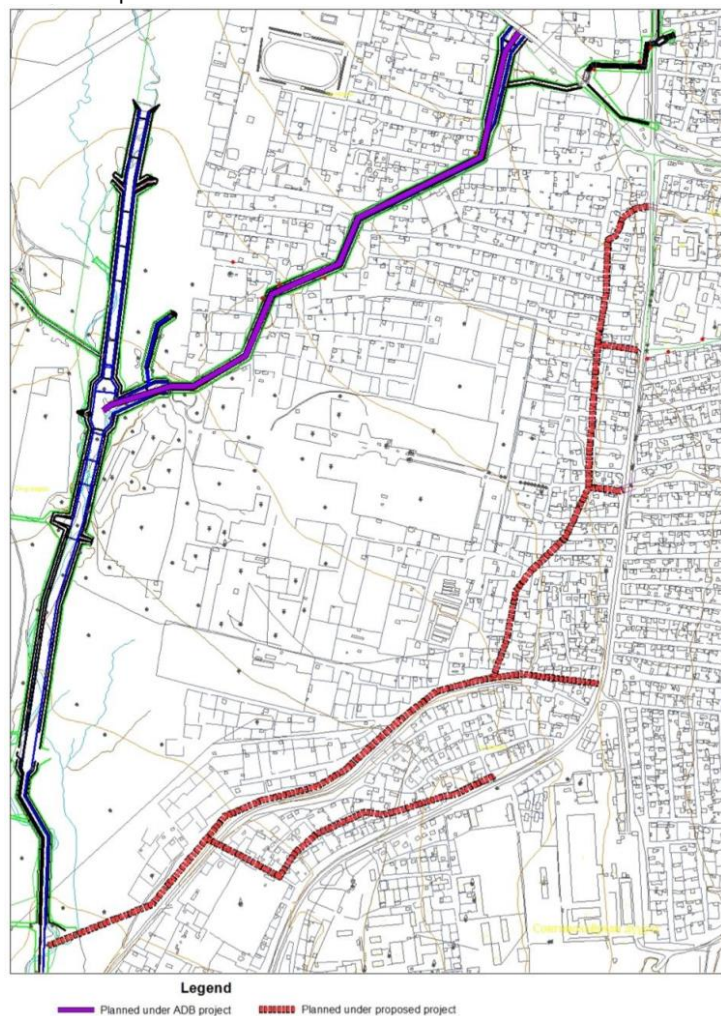
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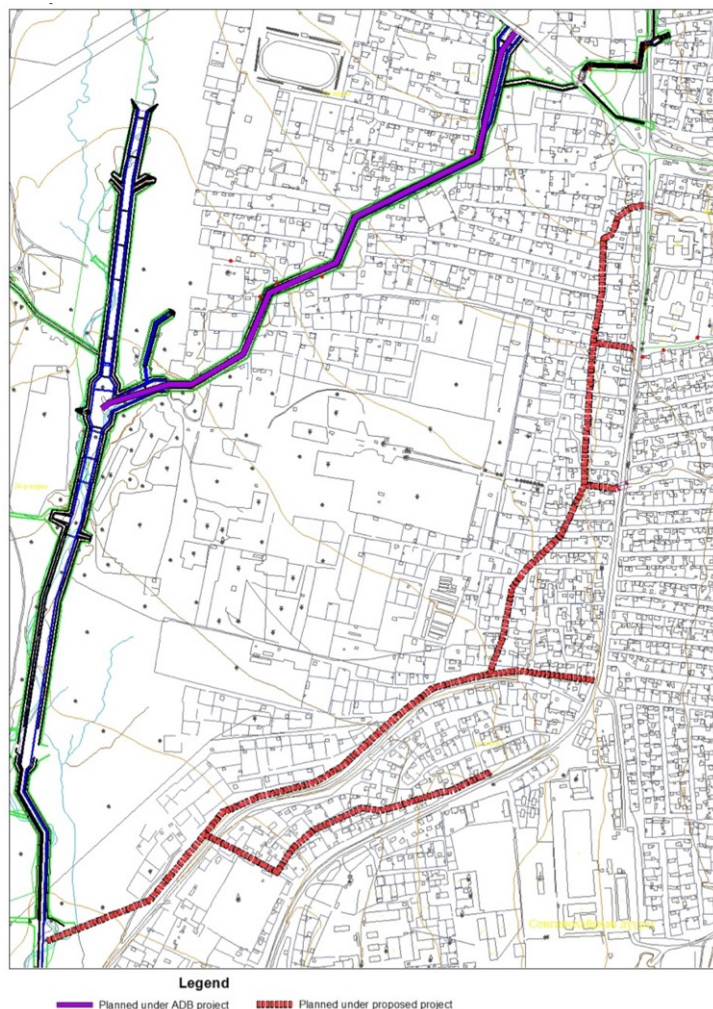
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In Khoroo 24, the project will focus on avoiding future development / settlement in the riverbed through land use planning. Besides that, the settlers that are already located in the riverbed, will be engaged in river training activities to protect their property and to sensitize them about the fact that they are living in a high-risk area. In Khoroo 7 the project will focus on developing the drainage channels (see red line) that will benefit the most inhabitants. In the north-east section, the proposed drainage channel will capture all water coming from the north-east. As this drainage will be going through some plots, the drains will be covered to avoid flooding so that inhabitants don't need to move. In the southern section, the drainage channel will be diverted to avoid flooding of large apartment blocks and the build-up of stagnant water in the western section of the Khoroo. In the remaining area of the Khoroo, including Khoroo 25, the project will focus on increasing the flood resilience of latrines, also benefitting downstream areas from run-off of polluted water.





**Figure 14: Area 1: Songino-khairkhan district (north-west) 7 proposed drainage interventions**  
Area 2: Sukhbaatar district (north-central) Khoroo 12, 13 and 16

In Khoroo 12, 13 and 16, the project will focus on increasing the flood resilience of latrines, also benefitting downstream areas. Although there are flood risks from the river to Khoroo 16, the construction of a dike is not feasible. In the case of Khoroo 12 and 13, the biggest flood impact is stagnant water, leading to latrine issues. Although some drainage interventions have been considered here, it is not feasible from a priority and cost-effective point of view.

Area 3: Bayanzurkh district (north-east) Khoroo 9

In Khoroo 9, the project will focus reducing flood impacts from the secondary arm of the river by placing a flood retention wall/dike at the top of the Khoroo- (see red line), diverting the

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stream from entering the Khoroo. In the central-west part of the Khoroo, a drainage ditch/channel next to the road ([see red line](#)) will ensure downstream areas are protected from flood waters coming from the north-west. These interventions will be complemented with flood resilience latrines provision, also benefitting downstream areas.



**Figure 15: Area 3: Bayanzurkh district (north-east) Khoroo 9 proposed flood protection and drainage interventions.**

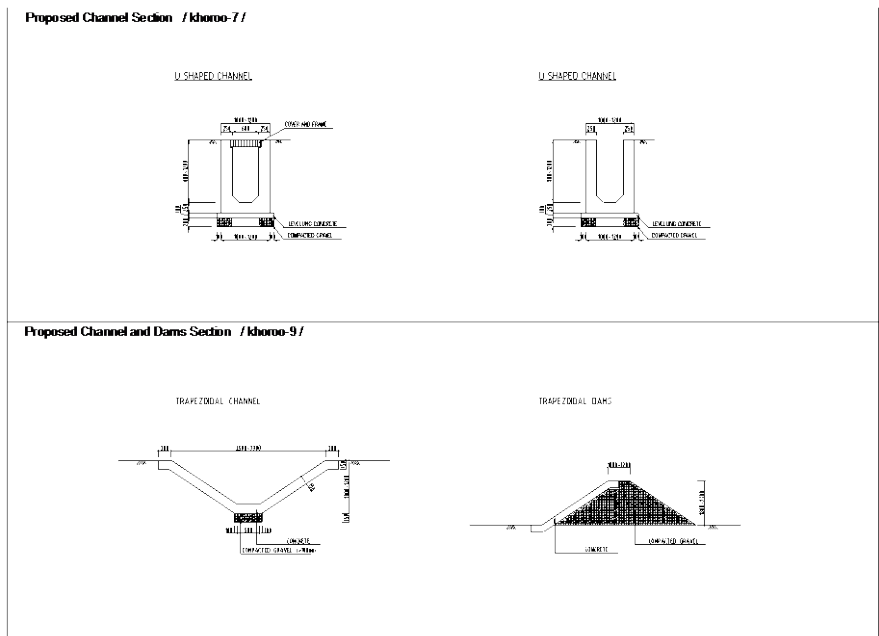
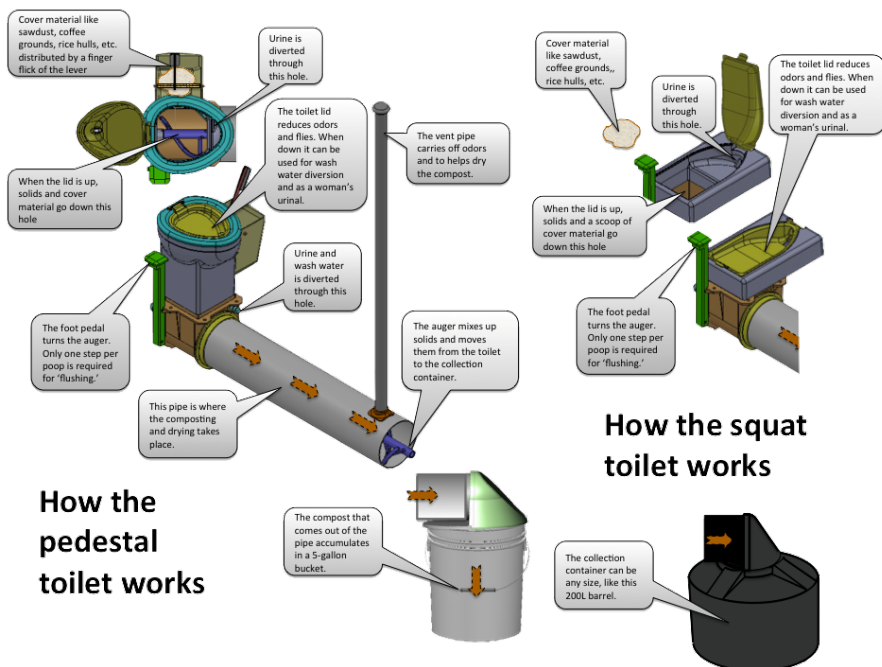
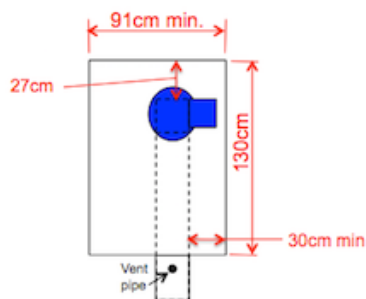


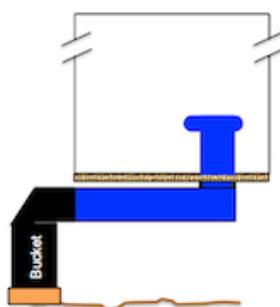
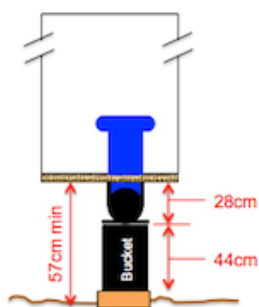
Figure 16: technical design of proposed interventions in Khoroo 7 and 9



Note: Components are shown in different colors for illustration purposes.



Approximate dimensions for a single unit installation. Multiple units can be located adjacent to each other in a number of arrangements. Floor may either be elevated above the ground as shown, or holes may be dug to hold bucket. Template for hole in floor is shown in adjacent picture.



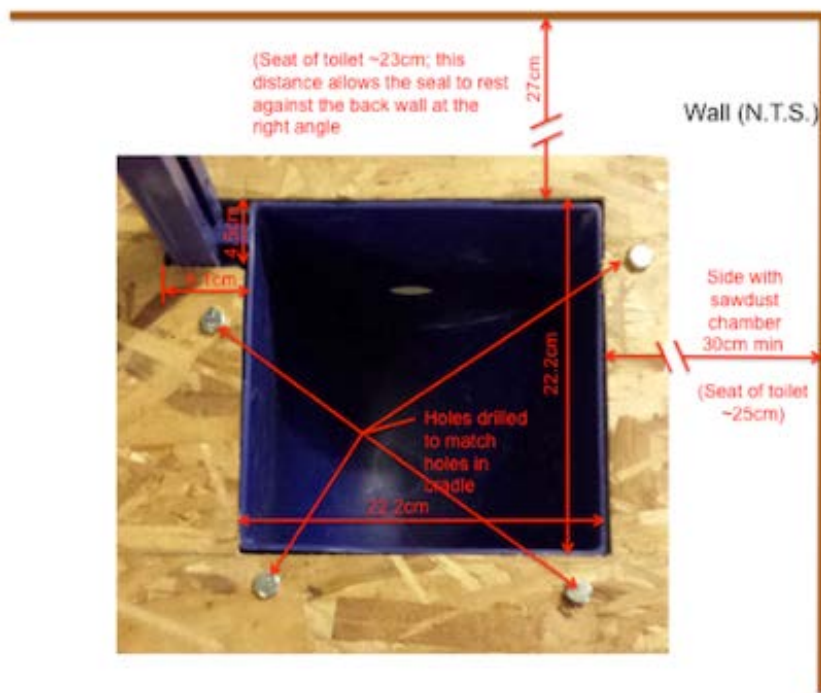


Figure 17: Technical design of proposed toilets improvements in target Khoroos

**Table 4:** Concrete interventions and supporting activities (corresponding to prioritized resilience building interventions in table 1 above)

Concrete interventions / activities		Target Khoroo	Estimated nr of beneficiaries	Estimated cost (US\$) and cost- effectiveness of direct beneficiar- ies (area within the Khoroo)	Supporting interventions required (see component 1)		
Priority investments	Detailed activities (for more details see environmental and social risks screening sheets in annex 5)				Interventions required for appropriate use of the assets	Interventions required for sus- tainable management and maintenance	Potential/Proposed mitigation measures to manage potential environmental and social risks. For detailed risk screening and more info see annex 5.
Flood protection and drainage infrastructure	River training to protect assets / houses	24	Direct: 2.737 (1.396 women) (750) informal household settlers in river bed)	50.000 = 18 pp	<input type="checkbox"/> Conduct detailed hydrology, soil and engineering studies and develop detailed technical plans	<input type="checkbox"/> Raise awareness and train community members about flood risk areas and how to reduce risks by: <ul style="list-style-type: none"> <li>Not dumping waste into the drainage system</li> <li>Introducing protection options and techniques</li> </ul>	<input type="checkbox"/> Community organization where everyone can participate, but quotas will be used to ensure different groups are included. Also, criteria for beneficiaries' selection will be established in advance.
	Construct a flood retention wall / dike	9	Direct: 3.000 (1.530 women) Indirect: 22.449 (Rest Khoroo 9 + 17)	73.500 = 24 pp	<input type="checkbox"/> Dredge the river along desired course and use the soil to protect assets in the riverbed	<input type="checkbox"/> Community groups will be formed for implementation of projects (involving Khoroo/District officials) and to raise awareness / discuss disposal of sludge on roads, proper removal of sludge, not throwing waste in canals.	<input type="checkbox"/> Primary Groups membership will include all households benefitting from construction of drainage.
	Drainage channels	9	Direct: 4.000 (2.040 women) Indirect: 21.449 (Rest Khoroo 9 + 17)	164.750 = 41 pp	<input type="checkbox"/> Community organization and agreement on beneficiaries, including selection criteria for who can be involved in activities	<input type="checkbox"/> Agreement between community groups and officials about maintenance; District Landscaping and Common Services Division will be in charge of O & M of the flood protection intervention. However, community groups of HHs live nearby to the flood facilities to conduct monitoring over the O&M of the facilities with help of Kheseg Leaders	<input type="checkbox"/> Construct foot bridges where needed.
		7	Direct: 20128 (>10.265 women) Indirect: 7.772 (Khoroo 5)	1.124.890 = 55 pp	<input type="checkbox"/> Need agreement of all settlers affected by drainage that will go through private plots	<input type="checkbox"/> Involve Khoroo and District officials during project selection, implementation, certification	<input type="checkbox"/> Community Development Councils will be formed with membership of all households benefitting from construction. The design of drainage sections will be managed in neighbourhood sections which can be managed by these CDCs.
							<input type="checkbox"/> Have all possibly affected households sign that they agree with the intervention; include clause in all contract that contractor will comply to human rights markers. Although inhabitants agree with the intervention in principle, an alternative drainage plan will be developed (and if already been considered) if inhabitants don't agree.
							<input type="checkbox"/> During construction, temporary (1-2 months) resettlement may be required. For this purpose, compensation for rental costs are included in the budget for this section of the drainage (which is budgeted double for this purpose and the open-close approach)
							<input type="checkbox"/> The UN-Habitat Human rights officers and PAC will check compliance.
							<input type="checkbox"/> Employment and working conditions following ILO standards will be included in

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						of transfer of funds install- ments, oversight, etc.	<p>legal agreements with all subcontractors; The community contracts to be signed with Community Development Councils will state that under aged children will not be employed and all workers will be paid equal wage.</p> <p><input type="checkbox"/> Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.</p> <p><input type="checkbox"/> Before construction, areas where high voltage wires are located underground will be checked.</p> <p><input type="checkbox"/> Where needed, drainage channels will be fenced to avoid children falling in.</p> <p><input type="checkbox"/> Discuss with companies and check source of material before purchase.</p>	<p>Formatted: Font: Arial, 8 pt</p> <p>Formatted: Font: Arial, 8 pt</p> <p>Formatted: Font: Arial, 8 pt</p> <p>Formatted: Font: Arial, 8 pt</p> <p>Formatted: Font: Arial, 8 pt</p> <p>Formatted: Font: Arial, 8 pt</p>
Total				1,413,140				
Flood resilient latrines	Construct suitable latrines (for rocky or muddy underground)	24	Direct: 1101 ( <u>&gt;561 women</u> ) Indirect: 32.824 (Rest Khoroo 24 + 7)	144.000 = 133 pp	<input type="checkbox"/> Select a design that is appropriate for withstanding floods and very low temperatures  <input type="checkbox"/> Community organization and agreement on beneficiaries, including selection criteria for who will have the toilets	<input type="checkbox"/> Raise awareness and train community members about risk of overflowed toilets and related health risks and benefits of hand washing  <input type="checkbox"/> 10% contribution from construction price to ensure ownership and to be used for replication  <input type="checkbox"/> Community groups will be formed for implementation of projects (involving Khoroo/District officials) and to raise awareness / discuss disposal of sludge on roads, proper removal of sludge, not throwing waste in canals.  <input type="checkbox"/> Formation of Primary Groups and Community Development Councils in areas where toilets are not available	<input type="checkbox"/> Community organization where everyone can participate, but quotas will be used to ensure different groups are included. Also, criteria for beneficiaries' selection will be established in advance.  <input type="checkbox"/> Primary Groups membership will include all households benefitting from construction of improved latrines.  <input type="checkbox"/> Involve different groups in the final design of the latrines  <input type="checkbox"/> Employment and working conditions following ILO standards will be included in legal agreements with all subcontractors; the community contracts to be signed with Community Development Councils will state that under aged children will not be employed and all workers will be paid equal wage.	<p>Formatted: Font: Arial, 8 pt</p>
		25	Direct: 1.098 ( <u>&gt;560 women</u> ) Indirect: 32.377 (Rest Khoroo 25 + 7)	123.750 = 115 pp				
		7	Direct: 222 ( <u>&gt;113 women</u> ) Indirect: 27.699 (Rest Khoroo 7 + 5)	22.500 = 123 pp				
		9	Direct: 290 ( <u>148 women</u> ) Indirect: 25.175 (Rest Khoroo 9 + 17)	33.750 = 124 pp				

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		12	Direct: 1074 ( <u>&gt;548 women</u> ) Indirect: 20.050 + center (Rest Khoroo 12, + 10, 11 and center)	117.000 = 137 pp	<div><div><input type="checkbox"/> Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.</div></div>
		13	Direct: 1377 ( <u>&gt;702 women</u> ) Indirect: 28.890 + center (Rest Khoroo 13, + 10, 11, 12 and center)	168.750= 124 pp	
		16	Direct: 955 ( <u>&gt;487 women</u> ) Indirect: 15.089 + center (Rest Khoroo 16 + 2 and center)	139.500 = 118 pp	
Total				749,250	

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## **A.B. Economic, social and environmental benefits**

The fundamental purpose of UN-Habitats' community development approach, The People's Process, is to achieve cohesive resilient communities working together to increase their social, economic, physical and environmental conditions, through participative capacity and trust building and decision making

Stronger social ties amongst the urban poor reduces the threat of conflict and provides an essential support group post-disaster and at times of need. Without a strong and connected community at its foundation, strategies for improving their lives, including becoming more resilient to climate change, becomes very challenging. The creation of a sense of social harmony between the urban policy makers, the residents and the emergency responders allows for improved communication and the sharing of experiences which would ultimately lead to greater social resilience.

By implementing a combination of institutional, community and assets risk and vulnerability reduction measures, especially in vulnerable/poor urban areas, this project is expected to lead to reductions in future climate related economic, household and livelihood losses, reductions in vulnerabilities of the elderly, women, immigrants, disabled and youth and finally reductions in environmental degradation.

Component 1 of the project will generate evidence and information which will allow the municipality, district authorities and khoroo communities to understand climate change related impacts and risks in the most vulnerable and high-risk communities of Ulaanbaatar. The generation of a **City wide Ger-area Land Use Plan** will provide a model for how to balance economic gains and environmental impacts; and the development of a **simulation model** to forecast future impacts, will allow authorities to 'keep a handle' on worst case scenarios and to identify appropriate, resilience initiatives to address potential threats, in consultation with other government institutions & authorities – this will also contribute to institutional resilience and cooperation. The Detailed **Ger-khoroo level Land Use Plans** for the 3 most-at-risk Ger-areas, in addition to identifying risk reduction and resilience building interventions at the community level, will include land re-adjustment and urban planning options – which, when followed by authorities, will lead to economic resilience through protection of assets and reduction of future economic losses.

Component 2 of the project aims at fully involving communities in the planning and execution of the proposed interventions under component 3 through generation of Khoroo-level **floods resilience action plans**. The trainings conducted for **the management and maintenance of flood resilient infrastructure**, through community involvement via the Community Development Councils (CDC's) that are formed as part of the People's Process; and the awareness raising campaigns – will firstly instil the knowledge capacity of communities and supporting local authorities on current and future climate risks and secondly, generate the means for communities and local authorities to protect the physical assets from potential climate induced economic risks. The **technical engineering and hydrology studies** that will be conducted in parallel with these plans will ensure the assets are properly designed and maximize the impact and sustainability of economic benefits arising from the physical implementation of these concrete interventions. Furthermore, the technical data generated from these studies will be shared with relevant institutions so that institutional capacities for responding to such risks will be strengthened across multiple entities.

Component 3 is the main focus of the project, delivering the majority of the concrete adaptation measures with the rest of the components of the project designed to service and sustain the

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## Physical assets developed or strengthened in response to climate change related flood impacts.

The design and implementation of this project focuses on maximizing the size of the 'concrete' interventions under component 3 (2/3) to directly benefit the most vulnerable populations through two main resilience building interventions: (1) improved drainage systems to reduce floods and (2) improved sanitation systems that won't overflow during floods and lead to health issues. The total direct and indirect beneficiaries per concrete intervention are as follows (see also table 4: Concrete interventions and supporting activities above).

1. Flood protection and drainage infrastructure
  - ☒ Direct with interventions area: 29.865 (15.270 women)
  - ☒ Total target community: 33.829 (17.253 women)
  - ☒ Indirect cross-community: 26.221 (13.449 women)
2. Flood resilient latrines
  - ☒ Direct with interventions area: 6.064 (> 3.092 women) Female headed house holds are primarily targeted
  - ☒ Total target community: 88.839 (45456 women)
  - ☐ Indirect cross-community: 104.710 + inhabitants (53.402 women)

Table 4b: Sex disaggregated population data in target Khorroos

Khorroo name	Population	Man	Woman	Disabled	Female headed households
7	20128	9869	10259	254	48
9	13701	6707	6994	724	1317
12	7162	3577	3585	213	787
13	9136	4519	4617	239	56
16	11945	5817	6128	288	140
24	13689	6544	7145	213	120
25	13678	6950	6728	290	98
<b>Total</b>	<b>89439</b>	<b>43983</b>	<b>45456</b>	<b>2221</b>	<b>2566</b>

Given that communities, and especially vulnerable groups, will be involved throughout the project, they will have the opportunity to directly influence project activities and outcomes, thus influencing their direct project benefits. The design will be adapted to local impacts of floods and storms, but also exposure to air pollution. Moreover, local and durable materials will be used in an energy efficient manner promoting longer term environmental benefits. Increased awareness on health and environmental issues within communities will increase environmental and social resilience

The settlements' vulnerability assessments and planning processes to identify safe areas for development and for understanding the remaining future climate change threats to which the design should respond will also contribute to economic and environmental resilience.

In an environment where there is rapid influx of new migrants placing pressure on already overstretched and inadequate urban/community services the identification of a joint-purpose between host communities and new residents; and working towards a common goal becomes imperative; at the same time creating a common social thread between the members of the community who have been removed from their tight-knit rural communities and find themselves living in an increasingly overcrowded and 'foreign' environment. At the basis of increasing urban resilience is to create incentives for all of the Ger-community to adapt by themselves

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to recurrent and future challenges, empowering them to become the key stakeholders in their own resilience strategies.

As this would be the first time to implement the Peoples Process in some of the proposed Ger-areas it is critical that the local authorities and communities are exposed to the rigorous mechanisms of checks and balances put in place for the successful implementation. The **Management & operations; design & supervision of assets / physical infrastructure component will be driven by** an international advisory technical team, familiar with the roll-out of the People's Process closely working with the national execution team – this capacity and technology transfer will lead to improving the professional capability of national entities, institutions, and teams to implement and replicate participatory mechanisms adapted to suit the local context – contributing to institutional, economic, environmental and social resilience.

Component 4 focuses on the generation, utilization and replication of knowledge on climate resilient urban development in Ulaanbatar. **Lessons learned and best practices regarding flood-resilient urban community development will be shared with District and khoroo communities**, policy-makers in government and civil society for full transparency.

In parallel, **workshops and trainings will be organised targeting city- and district government officials** with a focus on replication of processes, land use plans and interventions; while at policy level, consultations with the Project Advisory Committee will see how lessons can be integrated into existing strategies and plan and ensure buy-in and the sustainability of project approach for effective replication of best practices.

This component will strengthen urban-level institutional capacity to reduce risks associated with climate-induced ~~socio-economic~~socio-economic and environmental losses.

**Table 5:** Economic, Social and Environmental benefits

Type of benefit	Baseline	With/after project
Economic	Climate change is already leading to economic and livelihood losses, especially caused by floods, but also by droughts  The risks and vulnerability will be assessed under the project and baselines will be set after the assessment before the proposed project interventions.	<ul style="list-style-type: none"> <li><input type="checkbox"/> Potential risks of assets loss will be reduced for households, businesses and public organizations</li> <li><input type="checkbox"/> Government budget and resources for disaster relief activities during and after a potential disaster will be reduced and saved</li> <li><input type="checkbox"/> Households and public investments to the land development will be increased, and financial security will be improved</li> <li><input type="checkbox"/> Community participation in infrastructure</li> <li><input type="checkbox"/> Projects will benefit the community through cash income as semi-skilled and skilled labour is to primarily be sourced from the community.</li> <li><input type="checkbox"/> Additional resilient technologies will be imparted and may provide future livelihood opportunities.</li> </ul>
Social	Climate change is already leading to negative social impacts, especially caused by floods, but also by droughts and Dzuds, leading to rural – urban immigration and social tension and incoherent development..	<ul style="list-style-type: none"> <li><input type="checkbox"/> The climate induced poverty and fatality rates, diseases and food security and safety issues will be reduced</li> <li><input type="checkbox"/> The climate induced negative impacts on public mentality will be reduced and prevented</li> <li><input type="checkbox"/> Disaster induced negative impacts on people's access to education and health services will be reduced</li> </ul>

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	The risks and vulnerability will be assessed under the project and baselines will be set after the assessment before the proposed project interventions.	<input type="checkbox"/> Social networks of the residents will be strengthened and improved. <input type="checkbox"/> New climate resilient infrastructure and services will contribute to social well-being.
Environmental	<p>Climate change is already leading to negative environmental impacts, especially differences in temperature and precipitation, leading to floods and droughts, which in turn leads to above and erosion, deforestation, etc.</p> <p>The risks and vulnerability will be assessed under the project and baselines will be set after the assessment before the proposed project interventions.</p>	<input type="checkbox"/> Reduction in climate induced environmental degradation and losses and waste production because of environmental/ecosystem protection, community-based waste reduction and recycling schemes. <input type="checkbox"/> Natural water sources such as spring, river, underground water table and ground wells will be protected from disaster induced pollution <input type="checkbox"/> Air and soil will be protected from potential pollution due to a disaster <input type="checkbox"/> Climate induced exposure to the hazardous waste pollution will be prevented <input type="checkbox"/> Reduction of environmental health and waste related issues due to the improved flood infrastructure.

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### B.C. Cost effectiveness

As mentioned above, the design and implementation of the project focuses on maximizing the size of the 'concrete' interventions under component 3 (2/3) to directly benefit the most vulnerable populations; thus, limiting the 'soft' components to those activities required to supporting the appropriate implementation of the 'concrete' interventions (component), to further develop a framework to enhance climate resilience through land use planning (component 1) and to ensure sustainability of the whole project (component 4). Although the prioritization of concrete interventions has been done by the Khoroo communities, UN-Habitat analysed the interventions from a cost-perspective and total package point of (besides other selection criteria related to sustainability and risks) to maximize the beneficiaries-reached and impacted. This selection has been approved by the Khoroo communities and specific issues and needs identified that further informed the implementation process and technical designs.

Cost-effective ~~rational~~rationale component 1: land use planning and zoning is considered to be one of the most cost-effective ways to understand and respond to climate change risks and vulnerability, especially to avoid future development in risk areas (and cost associated with this potential risk, such as destroyed houses and assets. This would also contribute bottom-up knowledge and evidence to feed into existing government led-reviews on land legislation and policies being undertaken by the Government under the direction of Ministry of Construction and Urban Development (MCUD).

Cost-effective ~~rational~~rationale component 2: although the project aims to reduce cost of the construction of the selected concrete interventions by pursuing an economy of scale approach where possible, the proposed interventions have been scaled down to a size that they are manageable by communities (i.e. CDC's). This is required to enhance sustainability and mitigate potential social and environmental risks. Related to this, The People's Process, which has been used across multiple cities and sectoral contexts, was found to be the most cost effective compared to larger scale procurement, as it builds on community decision-making, local know-how and networks and facilitation, where the maximum value of each dollar is utilized to the maximum benefit of the community, in a transparent decision-making process.

Below tables provide an overview of the cost-effectiveness rationale of selected concrete interventions.

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**Table 6:** Proposed interventions cost-effectiveness rationale

Concrete interventions / activities		Target Khoroo	Alternative interventions and rationale why priority interventions/activities have been selected from a cost-effectiveness perspective
Priority investments	Detailed activities		
Drainage system	River training to reduce flood impacts by communities	24	Alternative is to construct a dike along the river, which is very costly and will lock-up informal settlers inside the riverbed / force them to leave. The river training is not comprehensive but will focus on protecting the households and increasing awareness where possible.
	Construct a flood retention wall / dike	9	Alternative is to construct drainage channels in the east-side of the Khoroo. However, this would cost more than the dam. This dam will reduce both direct flooding and stagnant water due to a small dam in the middle of the east part of the Khoroo. It has been considered to remove this dam, but it could result in negative flood impacts downstream.
	Drainage channels		There are limited alternative options besides a drainage channel in the central area of the Khoroo to protect downhill areas. It has been considered to have a longer drainage channel in this area, but this did not show to be cost effective (looking at the increase of beneficiaries).
		7	Alternative would be a larger drainage channel or a dike. However, this would be less cost-effective and less effective to reduce floods than the proposed small scale crucial drainage channels which maximize the beneficiaries. Although the total absolute cost for the drainage interventions is high compared to Khoroo 7, the large population / high density justifies it and makes the proposed intervention cost-effective, especially taking into account this is the hotspot area of the project, reducing both flood water and stagnant water, also benefitting downstream areas.
Flood resilient latrines (+ tree planting pilot in muddy / wet areas)	Construct suitable latrines (for rocky or muddy underground)	All	<p>The alternative would be to construct drainage channels in Khoroo 12, 13, 16, 24 and 25, which shows to be cost-effective in Khoroo 7 and 9. However, because of lower densities and other situations (i.e. uphill 24 and 25 Khoros and swampy / wet, lower-lying Khoros 12, 13 and 16 this would not be cost effective. Moreover, possible drainage channels considered would be less effective in addressing flood waters and swampy situations in these Khoros.</p> <p>Another alternative is to construct a sewerage system, but this is both not in the scope of the project and too expensive. Moreover, with this approach, the most vulnerable / poor people will benefit. The interventions will also have significant benefits for downstream areas (indirect beneficiaries) where water pollution will be reduced. Because drainage interventions are already conducted in Khoroo 7 and 9 the percentage of target population will be lower in these Khoros compared to Khoros 24 and 25 and especially 12, 13 and 16.</p>

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Altogether, the project will be cost-effective by:



- ❑ Avoiding future costs associated with damage and loss due to climate change impacts (especially floods) and to ensure the interventions are sustainable;
- ❑ Efficient project operations because of 'in-house' technical support options and capacity building expertise and because of direct partnering with the municipality (thereby building their capacity as well as reducing costs);
- ❑ Community involvement with development / construction of concrete interventions and because of community capacity building
- ❑ Selected technical options based on cost-, feasibility and resilience/sustainability criteria

## B-D. Consistency with national or sub-national strategies

**Mongolia's National Development Strategy** is strongly aligned with the SDGs and defines the country's policy up to the year 2021. It is intended to enhance Mongolia's capacity to adapt to climate change and to reduce negative effects on the environment and people. **The Nationally Determined Contribution** has identified a need to conduct disaster risk assessments at local and sub- national levels and to enhance human capacity to address local climate change impacts, to which this project responds. Further, the **National Action Programme on Climate Change (NAPCC)** focuses in five strategic objectives, of which 4 are relevant for this project. Mongolia has now entered Phase 2 of the NAPCC (2017-2021) which calls for implementation of concrete climate adaptation (and mitigation) measures which this project would begin addressing immediately. Besides this, the **Green Development Policy 2014-2030**, emphasizes the need of settlement plan in accordance with climate change and resilient sanitation, which this project also responds too.

2010 **National Programme on Water** was approved in 2010 with the overall objectives a) the protection of water resources from deterioration and pollution, b) the proper use of available resources, and c) the creation of conditions enabling the Mongolian people to live in a healthy and safe environment. The project will support achievement of the 2010 National Programme on Water Section 3.2.10 stating "Determine impacts of climate change and land use to the water ecosystem in large river basins, ecosystem biological indicators and monitor according to the international standards". The project will address this under the Component 1 and 2. The project will also address the achievement of Section 3.4 stating "Introduce advanced technologies for proper utilization and conservation of water resources and recycling and treatment of used water; **implementation of comprehensive flood prevention measurements**".

At the city level, all interventions fit under **the Ulaanbaatar Master Plan 2030**, specifically under Priority 1: Ulaanbaatar will be a safe, healthy and green city that is resilient to climate change and Priority 2: Ulaanbaatar will provide a liveable environment for its residents through appropriate land use planning, infrastructure and housing. Besides that, the plan emphasises the need for flood resilient and drainage infrastructure. UN-Habitat is already a partner working closely with the Municipality and ADB for the redevelopment of areas prioritized under the Master plan. Finally, this project will address some of the key strategic directions, recommendations and target areas within the **Flood Risk Management Strategy of Ulaanbaatar City**, including Reduce flood risk through resilient urban development, land use and waste management, protection of social infrastructure and strengthened utility services.

In the components and financing table x above, references have been made between outputs and national and municipal priorities.

**Table 7: Project alignment with National and Ulaanbaatar priorities**

Policy / Document	Year sub-mitted /	Relevant priorities
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	ratified	
Second National Communication to the UN-FCCC	2010	<p>Adaptation actions in the following areas:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Pastoral livestock</li> <li><input type="checkbox"/> Arable farming</li> <li><input type="checkbox"/> <b>Water resources</b></li> <li><input type="checkbox"/> <b>Human health</b></li> <li><input type="checkbox"/> Ecosystems adaptation</li> <li><input type="checkbox"/> Forestry</li> <li><input type="checkbox"/> <b>Barriers to adaptation</b></li> </ul> <p>Given that Mongolia is more urbanised than many other countries in Asia-Pacific – around 65 percent live in urban areas – urban features heavily throughout various sector priorities, both in adaptation and mitigation</p>
Nationally Determined Contribution	2015 (ratified the Paris Agreement 2016)	<p>The NDC identifies the following adaptation priorities:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Animal husbandry</li> <li><input type="checkbox"/> Arable farming</li> <li><input type="checkbox"/> <b>Water resources sector</b></li> <li><input type="checkbox"/> Forest resources</li> <li><input type="checkbox"/> <b>Natural disaster management</b></li> </ul> <p>The mitigation component focuses on: Energy, transport, industry, and agriculture</p> <p>Relevant identified gaps and barriers:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Weak management of disaster risks at local level</b></li> <li><input type="checkbox"/> <b>Insufficient human resources capacity and a lack of technical training on climate change and limited engagement of academic institutions.</b></li> </ul> <p>Relevant adaptation needs:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>To conduct disaster risk assessments at local and sub-national levels</b></li> </ul>
National Action Programme on Climate Change	1 <sup>st</sup> phase 2011-2016 2 <sup>nd</sup> phase 2017-2021	<p>Five strategic objectives established:</p> <ol style="list-style-type: none"> <li><b>1) Set the legal environment, structure, institutional and management frameworks for addressing on climate change.</b></li> <li><b>2) Ensure environmental sustainability is maintained and reduce socio-economic vulnerabilities and risks through strengthening the national climate change adaptation capacity</b></li> <li>3) Mitigate GHG emissions and establish a low carbon economy through the introduction of environmentally friendly technologies and improvement in energy efficiency</li> <li><b>4) Enhance the national climate observation, research and monitoring network and strengthen employees' capacity</b></li> <li><b>5) Conduct public awareness campaigns and support citizen and community participation in actions against climate change</b></li> </ol> <p><b>In the first phase (2011-2016), national mitigation and adaptation capacities will be strengthened, legal, structural and management systems will be set up and community and public participation will be improved.</b></p> <p>In the second phase (2017-2021), climate change adaptation measures will be implemented and start up greenhouse gas mitigation actions.</p>

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Green development policy 2014-2030	1 <sup>st</sup> phase 2014-2020 2 <sup>nd</sup> phase 2021-2030	<p>Six strategic objectives established:</p> <ol style="list-style-type: none"> <li>1) Promote a sustainable consumption and production pattern with efficient use of natural resources, low greenhouse gas emissions, and reduced waste generation</li> <li><b>2) Sustain ecosystem's carrying capacity by enhancing environmental protection and restoration activities, and reducing environmental pollution and degradation</b></li> <li>3) Increase investment in natural capital, human development and clean technology by introducing financing, tax, lending and other incentives for supporting a green economy</li> <li><b>4) Engrain a green lifestyle by reducing poverty and promoting green jobs</b></li> <li>5) Encourage education, science, and technology to serve as the catalyst for green development, and develop cultural values and livelihoods that are in harmony with nature</li> <li><b>6) Develop and implement a population settlement plan in accordance with climate change, while considering the availability of natural resources and the resilience of regions</b></li> </ol> <p>In the first phase (2014-2020), Lay the foundation for green development</p> <p>In the second phase (2021-2030), Transformation to green development</p> <p>Relevant proposed interventions:</p> <p>2.3. Strengthen national capacity for the climate change negative impact mitigation and adaptation – <i>nr 4: Release adaptation measure versions by key economic and social sectors and develop a national adaptation strategy.</i></p> <p>2.9. Increase the capacity and productivity of water supply and sewerage facility, provide at least the 90percent of the population with drinking that meets hygiene standards, and provide access to improved sanitation to at least the 60 percent of the population.</p> <p>2.11. Support initiatives to use conserved water by harvesting rain, snow and storm water, projects to use surface water collection, and research and development on ground water restoration and increasing of the resource.</p> <p>6.2. Reduction of air, water and soil pollution by implementing improved plan for urban land use, construction zoning and infrastructure and creating appropriate legal framework on accountability</p>
National Programme on Water 2010-2021	2010	<p>The National Programme on Water was approved in 2010. The implementation was scheduled in two phases – a first phase of intensive development from 2010 to 2015 and a second phase of stable development from 2016 to 2021.</p> <p>The overall objectives of the NPW are:</p> <ol style="list-style-type: none"> <li>a) <b>the protection of water resources from deterioration and pollution,</b></li> <li>b) <b>the proper use of available resources, and</b></li> </ol>

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		<p>c) <b>the creation of conditions enabling the Mongolian people to live in a healthy and safe environment</b>; and they are to be implemented through the following strategic goals:</p> <ol style="list-style-type: none"> <li>1. Protection of Mongolia's water resources, support of the formation of these, and conservation of their purity and natural replenishment;</li> <li>2. Establishment of a comprehensive network for the monitoring of water resources and adoption of new management and information management technologies;</li> <li>3. Creation of conditions necessary for an accumulation of water resources, provision of drinking water meeting health standards, and improvement of the agricultural and industrial water supply for a sustainable development;</li> <li>4. Improvement of the use and management of water resources, development of the legislative and institutional environment so as to coordinate the multiple requirements for the use of water, and capacity building;</li> <li>5. <b>Fostering civil participation and the provision of the public with information on the protection and proper use of water resources using advanced technologies.</b></li> </ol>
National Programme on Environmental Pollution Reduction 2017	2017	<p>Seven strategic objectives established:</p> <ol style="list-style-type: none"> <li>1) Reduce negative impacts of air pollution to human health through air quality improvement</li> <li>2) <b>Improve water quality and safety and reduce impacts of soil pollution to human health</b></li> <li>3) Improve quality of environmental health survey and study</li> <li>4) <b>Build and strengthen the resilience for climate change induced potential hazards and risks to human health</b></li> <li>5) Improvement of solid waste management system for health organizations.</li> <li>6) Improve occupational safety and hygiene</li> <li>7) Survey and study impacts of chemical substances to human health</li> </ol> <p>The programme is to be implemented in 2017-2020.</p>
Ulaanbaatar 2020 master plan and development approach for 2030	2014	<p><b>Priority 1: Ulaanbaatar will be a safe, healthy and green city that is resilient to climate change</b></p> <p><b>Priority 2: Ulaanbaatar will provide a liveable environment for its residents through appropriate land use planning, infrastructure and housing.</b></p> <p><b>Storm water and flood management:</b> Engineering flood protection measures will include managing infrequent spring floods, draining rainwater from roads and squares, securing groundwater, strengthening channels and reducing land degradation.</p> <p><b>Protection:</b> The Master Plan plans 59.5km of channel (C1 – C24) is planned and C-1, C-2, C-3, C-11, C-13, C-14, C-20, C-21, and C-24 flood protection channel infrastructure to be built. C-3, C-14, C-15 will be built with flood protection dams. Further flood protection dams will be built at Dari-Ekh, Sharkhad, UrgakhNaran and Unurkhoroolol where there are deep ravines.</p> <p><b>Storm water:</b> 82.5km of storm water infrastructure will be built to ensure rainwater run-off is directed out of Ulaanbaatar during periods of high rainfall. The Master Plan plans for category 1 and category 2 roads to have open and underground road storm water management systems.</p> <p><b>Extreme (1percent probability) flood protection:</b> Some of Ulaanbaatar's developed areas are in low-lying areas and within the river floodplain. To address these issues, flood protection infrastructure will be</p>

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		built to protect the areas along the Tuul, Uliastai, Selbe and Tolgoit rivers. Proposed interventions to address flood risk is in the recently finalized FRMS referenced in the following document.
Flood Risk Assessment and Flood Risk Management Strategy (FRMS) of Ulaanbaatar City	2015	<ol style="list-style-type: none"> <li>1. Reduce flood risk and protect the environmental assets through improving risk knowledge and rehabilitating ecosystem of river basins and watersheds;</li> <li>2. Reduce flood risk through resilient urban development, land use and waste management, protection of social infrastructure and strengthened utility services;</li> <li>3. Protect the social and economic assets from flood through provision of structural protection with multifunctional and high-quality engineering services;</li> <li>4. Reduce vulnerability of people, households and communities through improving social and emergency services, and building capacity for resilience and sustainable livelihoods;</li> <li>5. Implement good governance and effective flood risk management through mindset change and institutional transformation with advance of science and technology and through strengthening economy, improving cost effectiveness of flood investment, and developing multi-sourced risk financing</li> </ol>

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## G.E. Compliance with relevant national technical standards

**Table 8:** Compliance with relevant notional technical standards

Expected concrete output/intervention	Relevant rules, regulations, standards and procedures (to comply to AF principle 1)	Compliance, procedure and authorizing offices	Screening against the AF ESP Principles (principles triggered and prevention / mitigation measures proposed - see annex x and risk screening sheets for more details)
<p><b>Output 1.1.</b> One (1) Ulaanbaatar northern Ger-Area (including the three (3) target districts) Territorial Land Use Plan and legal framework recommendations with specific focus on flood risk reduction - building on 1.2.</p> <p><b>Output 1.2.</b> Simulation model for forecasting future impacts of climate change and flooding in UB city &amp; Ger-areas established</p> <p><b>Output 1.3.</b> Seven (7) Detailed Ger-khoroo level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people</p>	<p>Related Laws:</p> <ul style="list-style-type: none"> <li>• Law on Land</li> <li>• Law on Water</li> <li>• Law on Urban Development</li> <li>• Law on Capital City Entitlement</li> <li>• Law on Cities and Townships Entitlement</li> </ul>	<ul style="list-style-type: none"> <li>• The Ger-Area territorial land use plan including the 7 detailed Khoroo level Land Use Plans proposal should be developed by a licensed company selected through a competitive procurement process</li> <li>• The contract with the company shall be formulated with the requirements to ensure that the listed laws are adhered to.</li> <li>• The Project Implementing Unit will monitor the implementation of the contract in compliance of related laws.</li> <li>• The final proposal shall be integrated into respective district land use plan and submitted for approval to the City Council through District Council</li> <li>• A land use plan proposal should be developed by a licensed company selected through a competitive procurement process</li> <li>• The proposal shall be integrated into respective district land use plan and submitted for approval to the City Council through District Council</li> </ul> <p>Authorizing offices:</p> <p>Urban Development and Master Plan Department</p>	<p>All principles will be taking into account when developing land use plans, thus ensuring compliance</p>

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		Land Department of Ulaanbaatar City and District and Ulaanbaatar City Councils	
		Furthermore, the Ministry of Construction and Urban development (UN-Habitat's counterpart Ministry in country) shall act as resource ministry and provide technical and institutional inputs during the development and finalization of land-use plans, to ensure project stays in line with the latest requirements and adjustments being made to land related and planning regulations at all levels..	
<p><b>Output 2.1.</b> Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; a series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3.</p> <p><b>Output 2.2.</b> Khoroo / Community level interventions operation and maintenance (and potential risks mitigation) awareness campaigns and trainings to support the sustainable implementation of interventions under component 3.</p> <p><b>Output 2.3.</b></p>	<p>The Peoples Process 'Operational Manual' will be developed and contain all the necessary guidelines, procedures and forms for ensuring integrity and transparency for community-level action planning and implementation. The project stakeholders at municipal, district and khoroo levels will be trained on the essential procedures and requirements for implementation.</p> <p>See below</p> <p>See below</p>	<p>The project manual prepared by the principal Executing Entity will be cleared by the Regional Office of UN-Habitat, the Implementing entity.</p> <p>The project manual will be reviewed, discussed and shared with the Project Advisory Committee.</p> <p>Endorsed/endorsed by the Project Advisory Committee (PAC) – the highest decision-making body for the project.</p> <p>See below</p>	<p>When 'organizing' and planning with communities it will be ensured that vulnerable groups will be involved (related to AF principles 2, 3 and 5. Af principle 4 and 6 always apply</p> <p>All principles will be</p>

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Technical studies – Engineering and hydrological - required to implement the interventions under component 3.	<p><u>Related laws:</u></p> <ul style="list-style-type: none"> <li>• <u>Law on Land</u></li> <li>• <u>Law on Water</u></li> <li>• <u>Urban Development Law</u></li> <li>• <u>Disaster Management Law</u></li> <li>• <u>Building Code</u></li> </ul>	<p><u>See below</u></p> <ol style="list-style-type: none"> <li>1. <u>TORs to be issued by the Engineering Department of Ulaanbaatar Mayor's Office</u></li> <li>2. <u>Competitive procurement process to be done to select a company with licenses for engineering and hydrological studies</u></li> <li>3. <u>The contract with the company shall be formulated to ensure that the listed laws are adhered to.</u></li> <li>4. <u>The contract implementation will be closely monitored by the Project Implementing Unit and reported to the PAC</u></li> </ol>	taking into account when these studies are conducted, thus ensuring compliance
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<p>- Resilient sanitation delivery</p> <p><b>Output 3.2</b> Management and operations design &amp; supervision of assets / physical infrastructure – procured as consulting services.</p>	Related Laws:	Of Ulaanbaatar City	
	•• Constitution of Mongolia		Principles 2, 3, 6 and
	•• Law on Hygiene		13 have been triggered
	•• Law on Urban Water Supply and Sanitation System		
	•• Law on Cities and Townships Entitlement	<del>The stated norms and standards are advertised to be applied and complied. But there is no any institutional set up for monitoring of compliance of standards and norms at the household level.</del>	
	•• Law on Soil Protection and Prevention of Desertification	<u>Community contracts will be formulated on the basis that the related standards for sanitation facilities will be adhered to.</u>	
	Norms & Standards:		
	•• MNS 5924: 2015 Pit latrine and Sewage Pit, Technical requirements		
	•• MNS3342:82 Nature and Environmental protection. General requirements for protecting ground water and hydrosphere from pollution.	<u>The contract implementation will be monitored by the Project Implementing Unit</u>	
	•• MNS 6055:2009 General environmental and space requirements for the disabled in the civil construction planning		
	•• MNS 6279:2011 Water supply and sanitation facilities. Terms, definitions glossary		
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<p><b><u>Output 4.1.</u></b> Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms.</p> <p><b><u>Output 4.2</u></b> Workshops and trainings are organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans</p>	Not relevant	Not relevant	When organizing workshops and trainings it will be ensured that groups will be involved (related to AF principles 2, 3 and 5. Af principle 4 and 6 always apply

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## D.F. Duplication with other funding sources

UN-Habitats has worked with Ger- communities in UB city on the sectors of Water Sanitation and infrastructure services as well as urban health systems strengthening, urban planning and affordable housing in partnership with the Municipality of Ulaanbaatar and other stakeholders. The agency also has regional level expertise on climate change in urban areas through its long running Cities and Climate Change Initiative (CCCI) which has been successfully implemented in multiple cities across 12 countries in Asia Pacific.

UN-Habitat is currently implementing community development projects, in some of the target Ger-areas Bayankhoshuu and Selbe sub-centres where the agency leads the key component of community mobilization and consultations for UB city and all partners for the ongoing Ulaanbaatar Urban Services and Ger Areas Development Investment Programme of ADB, through the establishment of Community Development Councils (CDC's) a key component of the agency's flagship People's Process. The agency also has prior experience implementing major WASH infrastructure projects in the other proposed locations of Songinokhairkhan District (SKhD).

Due to ongoing presence and good working relationships with stakeholders in these areas, the project setup and implementation of activities could begin quite smoothly with minimum delays.

**Table 9:** Duplication with other funding sources

Relevant projects/pro-gramme (incl. amount and impl agency)	Lessons learned	Complimentary potential
AF: UNDP (US\$5,5 million grant for Ecosystem-based Adaptation to Maintaining Water Security in Critical Water Catchments in Mongolia)	Project to coordinate to integrate knowledge regarding EBA (Ecosystem Based Adaptation) and integrated climate change resilience while strengthening knowledge management of national institutions and disseminating of findings.	<ul style="list-style-type: none"> <li>-document threats to ecosystem function and resilience to provide recommendations for avoiding and mitigating impacts.</li> <li>- land use and water resources monitoring and decision-making system in two eco-regions.</li> <li>-adaptation assessment and monitoring implemented in two target watersheds.</li> <li>- suite of physical measures to improve ecosystem resilience established in two target watersheds.</li> <li>-introduction of regulatory and financial management techniques</li> <li>- Institutional support for integrating climate change risks in land and water resource management planning.</li> </ul>
GEF-SCCF: IFAD (US\$1,5 million grant for Mongolia Livestock Sector Adaptation	Project is focused upon developing herder productivity, including concepts such as fodder production and marketing.	-empowering poor rural population to achieve higher incomes through sustainable improvements in their livelihoods through a) Market

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Project)		<p>development; b) Pasture management and c) climate change adaptation.</p> <p>-focused on resource user side of climate change adaptation in market development, improved pasture management, establishment of an early warning system and disaster insurance schemes.</p>
GCF, GCF Readiness: Xac-Bank, GIZ, UNEP (US\$60 million grant for business loan programme for GHG emissions reduction, US\$300 thousand grant for support to the NDA, US\$3 million grant for further readiness project (exact details unclear)	<p>Promoting the use of energy efficient and renewable energy solutions in the Mongolian MSME market.</p> <p>The MSME program will mainstream energy efficiency and renewable energy investments in the Mongolian private sector. It will do so by developing market conditions conducive to RE and EE investment, allowing it to compete alongside the traditionally cheaper, conventional, high-emission alternatives.</p>	<p>encourages national institutions to get direct access to the Fund, with the ultimate goal to enhance country ownership and to access and allocate the fund's resources effectively.</p> <p>-aims to develop the capabilities to nominate potential implementing entities and to establish the enabling environments that will promote submission of project proposals in consistency with strategic objectives of national development policies and counter climate change programs.</p> <p>- prepare the country to act quickly, and engage with the Fund efficiently in the future.</p>
WB: ADB (Ulaanbaatar city water resources management project; Economic Value of the Upper Tuul Ecosystem in Mongolia)	<p>Upper Tuul area has a high economic value and contributes to the income and marketed products in many sectors.</p> <p>-conservation is necessary as ecosystem degradation and biodiversity loss will result to costly results.</p> <p>-conservation will result to more benefits in the future.</p> <p>-local land and resource users must bear through limiting their activities to ecologically sustainable levels.</p>	<p>developed and applied ecosystem valuation method that generates information about the economic benefits of environment conservation</p>
WB: UNDP (Improving Disaster Risk Management in Mongolia; Climate change adaptation project;)	<p>Policy and regulatory frameworks enable clearer roles and responsibilities for improved disaster risk reduction and management.</p> <p>Local-level disaster management mechanisms have procedures and competencies tailored</p>	<p>reduced risks and consequences of natural and man-made disasters at national and community levels</p> <p>-improved sustainability of natural resources management and resilience of ecosystems and vulnerable populations to the changing climate</p>

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	<p>for urban and rural vulnerabilities.</p> <p>Feasible local level mechanisms for disaster risk reduction and response further replicated</p>	<p>-facilitated decentralized disaster management through sustainable prevention, response and coordination mechanisms, thus reducing vulnerabilities of urban and rural poor.</p> <p>- enhance disaster management capacities by clarifying roles and responsibilities, formalizing local-level disaster management mechanisms and applying tailored approaches for disaster prevention, preparedness and response in urban and rural settings.</p>
Asia Foundation: Securing our future: Mongolia Watershed Monitoring Network component	<p>This project generated materials related to community monitoring of water resources that will be utilized to enhance land and water resource monitoring/ planning, maintenance of ecosystem integrity and water security and to support ecosystem-based adaptation implementation.</p>	<p>-purpose of the project</p> <p>is to engage teachers and students, community groups, citizen and river movement advocates, and government officials in scientific data collection on river water conditions and share that information among members to improve the environment.</p> <p>-through the initiative, Mongolian teachers and citizens in target area were taught to conduct river quality monitoring.</p>
Japan Fund for Poverty Reduction, managed by the Ministry of Environment and Tourism and the Asian Development Bank: Managing Soil Pollution in Ger Areas through Improved On-site Sanitation Project	<p>The project will not only include sanitation facilities in Ger areas, it will include developing of regulations of wastewater management systems and wastewater treatment, which focus on small and medium sized enterprises and residents of Ger areas. They will work in areas of waste storage, collection, transportation, fertilizers, waste disposal and related controls.</p> <p>The project is commenced in 2017 and being implemented only for 6 months, so there are limited lessons learned.</p>	<p>The project will introduce improved sanitation facilities for households in Ger districts of Chingiltei Khoroo 12, 13 and Bayanzurkh Khoroo 27 khoroo. There is no geographical overlap.</p> <p>UN-Habitat has already established a communication with the project team and agreed to collaborate on identification of suitable designs or structures for the resilient household sanitation facility. In this regard, UN-Habitat intends to coordinate with the project to share information and approaches and lessons during the course of project implementation; and facilitate cooperation between municipal/district authorities and the Ministry of Environment and Tourism around the issue of floods and sanitation facilities to generate tools/methodologies to be applied consistently across Ger-Areas with a view to supporting the MoET develop an institutional framework for floods resilience in Ger Areas.</p>

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EBRD financed Ulaanbaatar Wastewater Expansion	The project has not started yet but this project will monitor the implementation and possible lessons learned.	<p>There is no linkage nor duplication with the EBRD financed Ulaanbaatar Wastewater Expansion project. EBRD</p> <p>Ulaanbaatar Wastewater Expansion project is aiming to build two wastewater treatment plants as part of Ermeelt Industrial Park Project, which is planned in an industrial area in outskirts of Ulaanbaatar city. The proposed project's target areas are located in the most vulnerable 6 residential areas in the urban center</p>
UNDP/NEMA Strengthening local level capacities for disaster risk reduction, management and coordination in Mongolia (2013-2016) \$1,860,000 (Project brief DRR)	Combination of policy and local level disaster management systems established: EWS enhanced including weather forecasting, and dissemination modes established National Disaster Management Plan and soum, khoroo level disaster preparedness plans, trainings conducted.	<p>Output 1: Policy and regulatory frameworks enable clearer roles and responsibilities for improved disaster risk reduction and management.</p> <p>Output 2: Local-level disaster management mechanisms have procedures and competencies tailored for urban and rural vulnerabilities.</p> <p>Output 3: Feasible local level mechanisms for disaster risk reduction and response further replicated</p> <p>Lessons learned and best practices prepared; inputs provided to reformulate relevant policies and laws</p>

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## E.G. Learning and knowledge management

A dedicated Component (4) addresses Awareness raising, knowledge management and communication. Whilst this provides the cornerstone for capturing and disseminating lessons learned, other project components directly contribute to knowledge management mechanisms and dissemination of lessons learned from local to national and to international levels (see table below).

Assessments at the municipal level combined with simulation modelling done and maintained with the Ministry (MoET) will foster information sharing, and allow for capacity transfer to municipal level authorities thus allowing local authorities to react strategically, with foresight, and make evidence and knowledge based decisions on climate adaptation measures and urban resilience issues.

At the local level, a participatory approach (involving communities and local authorities in planning and implementation activities) will lead to increased local knowledge on climate change adaptation, especially related to urban floods. Project demonstration sites will contribute, from the start and in an on-going way, to sharing lessons and training through local disseminators/community mobilizers. During the project implementation, Public information tools such as noticeboards, leaflets will be prepared and distributed to target communities and a complaints/issues redressal mechanism setup directly to UN-Habitat. The project will also maintain a gender and age disaggregated database of direct beneficiaries and stakeholders involved within the project.

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As the national and local level disaster risk and emergency response capacities have been strengthened through establishment of disaster committees and Early warning systems, synergies will be explored with the NEMA committee within the municipality, for participation and delivery of trainings and awareness building around urban resilience issues and for transmission of key/urgent messages to other (non-target) Ger-communities during project implementation. Where relevant, any disaster committees already established at district and khoroo level, will be brought on board during the inception and planning phase of the project and for dissemination of public information. Lessons learned from disaster risk reduction projects will be reviewed and recommendations applied as appropriate.

Community level trainings will be held on identified needs such as climate/environmental risks, hygiene education, community leadership and management. The project will also use a participatory monitoring process, which will enable the beneficiary communities to work directly with the project's M&E and Public Information officers, to highlight issues in delivery and to strengthen adaptation benefits, including in replication and sustaining the project's gains. Opportunities for bringing on board and harnessing the potential of youth, for the implementation of awareness building, trainings, and knowledge products generation through the use of ICT and innovation, will be explored – particularly for the implementation of the social media component to disseminate 'live' progress and results of the project -which will be implemented by the M&E and Public Information officers for the project.

At the national level, the government will be able to draw from lessons learned through this project, including replication and scale-up of good practices. Information will be consolidated in reports and tools methodologies, guidelines and public information products. A direct linkage will be established, through the partnering departments of the various line ministries at the city/town level, with the ministries at the national level facilitating countrywide dissemination to other urban areas/cities/towns, informal settlements, policy-makers and civil society. All knowledge products generated will be made available on a digital format in Mongolian and English and uploaded on the Municipality of Ulaanbaatar's web portal and spatial database: <http://www.ubgeodata.mn/geocity> (<http://www.ubgeodata.mn/geocity> (as well as linked to the geo-spatial databases of the Ministry of Construction and Urban development)). The simulation model will be maintained by the Ministry of Environment and Tourism and be an on-going data-sharing and risk analysis collaboration between the Municipality of Ulaanbaatar and the Ministry.

Lessons regarding increasing the flood resilience of communities as well as land-use planning mechanisms need to be captured and municipal and district level government officials trained on the best practices and knowledge products to ensure the sustainability of this project and effective replication of best practices.

At the regional level, the lessons, tools, methodologies and guidelines from the project will be consolidated and added to the regional knowledge database and shared with the Regional Climate Change focal point/team and other country offices through the Knowledge Management focal point within the UN-Habitat Regional office for Asia Pacific.

At the international level, the lessons from the project will be shared with the UN-Habitat best practices unit within HQ through the Knowledge Management focal point for dissemination to all countries; and similarly through the Regional Climate Change focal point/team with the Climate Change Planning Unit within the Urban Planning and Design Branch for consolidation of all knowledge products related to Climate Change – this will complete the cycle in linking to UN-Habitat's regional Cities and Climate change Initiative (CCCI) for Asia and the Pacific.

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**Table 10: Learning and knowledge management**

Expected Concrete Outputs	Learning objectives (lo) & indicators (i)	Knowledge products
<b>Output 1.1</b> <b>One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan</b> , with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on 1.2 * (includes the three (3) high risk target districts covering the seven (7) most vulnerable khoroots)	(lo): First ever large scale <b>Territorial Land Use Plan</b> developed for Ulaanbaatar Ger area with comprehensive and detailed information on proposed areas – with buy in and ownership from stakeholders through in depth consultative process.	<b>-One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan &amp; Report</b>  <b>-Seven (7) Detailed Ger-community level land use plans</b>
<b>Output 1.2.</b> <b>Simulation model</b> for forecasting future impacts of climate change flooding in <b>UB city &amp; Ger-areas</b> established	(lo): First Simulation Model for forecasting future climate change flooding impacts – launched in collaboration between Ministry and Municipality and staff capacitated to populate and analyze data.	<b>-Documentation of Stakeholder Analysis and Mapping</b> <b>-Collected data including the evidence bases</b>
<b>Output 1.3</b> <b>Seven (7) Detailed Ger-khoroo level Land Use Plans</b> with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people	(i) - Number of institutions and stakeholders involved -Number of consultations held -Number of risks identified -Number and types of vulnerability -Number of data types/sets	<b>-Simulation Model for forecasting future climate change flooding impacts – which could later be expanded to include other climate risks.</b>
<b>Output 2.1</b> <b>Seven (7) Khoroo-level floods resilience action plans</b> to implement the interventions under component 3; A series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3	(lo): First ever Khoroo-level Floods Resilience Action Plans in high risk Ger area – with comprehensive and detailed information on proposed interventions – with buy in and ownership from stakeholders through in depth consultative process.	<b>- Seven (7) Khoroo-level floods resilience action plans</b>
<b>Output 2.2</b> <b>Khoroo -community level interventions operation &amp; maintenance* and awareness</b> campaigns and trainings to support the sustainable implementation of interventions under component 3. An Estimated 20.nos. of trainings * (Awareness will also cover potential risks mitigation)	(i) -Number of interventions/actions defined -Number of stakeholders involved -Number of Community resilience building actions defined -Number of consultations held (o): Training on implementation modality and on People's	<b>- A number of Engineering and Technical hydrological studies finalized with inputs from technical focal points and stakeholders</b> <b>-Documentation of consultations</b> <b>-Documentation of action planning processes</b> <b>-Documentation of training modules</b>

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<p><b>Output 2.3</b> <b>Technical studies – Engineering and hydrological</b> - required to implement the interventions under component 3.</p>	<p>Process Operational Manual for project (i) - Number and type of trainings conducted</p> <p>(lo): Engineering and Technical hydrological studies disseminated to technical focal points and stakeholders and inputs solicited, -Number of technical and hydrological studies</p>	
<p><b>Output 3.1.</b> <b>Physical assets developed or strengthened in response to climate change related flood impacts</b> as prioritized (by Khoros drainage and sanitation) – implemented through community contracting</p> <p><b>Output 3.2</b> <b>Management &amp; operations; design &amp; supervision of assets / physical infrastructure</b> – procured as consulting services</p>	<p>(lo): Flood control facilities developed based on the comprehensive risk and vulnerability assessment and climate change impacts simulation</p> <p>(lo): Floods resilient sanitation facilities developed based on the comprehensive risk and vulnerability assessment and climate change impacts simulation</p> <p>(i) -Number and types of flood-control facilities -Number of sanitation facilities constructed -Number of direct beneficiaries -Number of indirect beneficiaries -Estimated capacity/impact of the constructed facilities to reduce climate risk for vulnerable communities (measured through future adverse floods) - Reduction in incidence of waterborne public health breakouts/disease</p>	<p>-Beneficiary database of direct beneficiaries and stakeholders for the project – with gender/age disaggregated data.</p> <p>Operational manual – designed to suit Mongolian urban context - for the implementation of the Peoples Process for Floods Resilience Project - including all forms, templates and workflows for checks and balances.</p>
<p><b>Output 4.1.</b> <b>Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities</b>, civil society, and policy-makers in government appropriate mechanisms.</p>	<p>(lo): -Documentation of lessons learned and best practices regarding flood-resilient urban community development -Creation of project social media platform – using twitter, In-</p>	<p>-Documentations of lessons learned and good practices</p> <p>-Documentation of 'replication' package including Operations Manual and tools, for other Ger-areas</p>

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<p><b>Output 4.2.</b> <b>Workshops and trainings will be organised targeting city- and district government officials</b> with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans.</p>	<p>stagram, facebook etc for increased awareness by stakeholders</p> <p>(i) <b>- a database of lessons learned and best practices developed</b>  <b>-number of awareness sessions/trainings conducted</b>  <b>-number of existing strategies and plans that are updated as a result of the project</b>  <b>-Number of local authorities/stakeholders expressing interest for replication.</b></p>	<p>-Documentation of training modules</p> <p>-Knowledge products uploaded digital format in Mongolian and English and easily accessible <b>online</b></p>
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## F.H. Consultative process

This design of the project has been informed by in-depth khoroo community level consultations and district level consultations with presiding Governor's, conducted as part of a rapid needs assessment on climate vulnerability in the three target areas (7 Khorooos).

Meetings were conducted with the designated khoroo representatives and consultations were made with the 7 Khorooos communities including the most vulnerable groups; disabled, elderly, informal people, indigenous people, and recent migrants.

Demographic and technical information were collected around the following categories (1) Beneficiary Information (2) Climate change impacts, barriers for adaptation, possible interventions (3) Strengthened Institutional capacity (4) Health issues around climate change (5) Urban development and housing (6) Physical infrastructure (7) Water resources and sanitation (8) Waste and waste infrastructure (9) Natural assets for protection, rehabilitation and (10) Improved policies regulations. (10) A community vulnerability and risk map was also developed as part of the consultation. The full details of the Rapid Settlements Needs Assessments are attached as Annex 1,2 to the concept proposal.

Preliminary discussions were held with city officials working in the areas of hydrology, meteorology and pollution, waste management to understand the urban climate context and supporting policy environment as well as most pressing adaptation needs; and with the head of the Mayor's office to understand recent initiatives of UB City on climate change, and their position on the greatest risks and most urgent needs, for which UN-Habitat support and expertise are needed.

UN-Habitat has been a longstanding partner for the Municipality of Ulaanbaatar and the agencies expertise in dealing with Ger communities and ability to implement upgrading and adaptation projects on a significant scale recognized and valued by all partners. A list of UN-Habitat projects interventions in Ger settlements in Ulaanbaatar, are included in Annex 4.

The relevant hazards (and adaptation measures) identified (especially floods) are related and will be exacerbated by climate change. Sand and dust storms, air pollution and severe cold spells are either less directly related to climate change, the impacts are felt more long-term or addressing the impacts lies beyond the control of local government. However, for the full proposal, synergies

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for addressing the impacts of these hazards have been studied and measures proposed where possible. For instance, freezing of contaminated water (by waste) after floods has been identified during consultations as a health risk when water defreezes.

Climate change related hazards identified during the community consultations and potential measures to address the issues were discussed and validated in the meetings with Ulaanbaatar city Governor's Office, which will be the main partner during the project implementation. The City officials requested UN-Habitat to address the flood resilience building, as it is one of the top priority issues of the Ulaanbaatar city local government, which they were not able to address until today due to lack of funding and appropriate methodology. According to Ulaanbaatar city Governor's Office, the project demonstrated model can be replicated further by the local government in other areas as required. Therefore, flood resilience was selected to be addressed under the project. Other environmental hazards were discussed in the meetings but not included based on the needs of special adaptation policy at national level and bigger investment.

To identify special issues, impacts and needs of women, elderly, disabled, youth and children for the proposed project interventions, Focus Group Discussions (FGD) have been conducted in each target khoroo. Through the FGDs UN-Habitat team aimed to get vulnerable communities' confirmation on locations of main flood and stagnant water areas defined based on the results of previous community consultations, identification of their main concerns and needs regarding proposed drainage channels and toilet facilities and their ideas on post operation and maintenance arrangement.

As shown in detail in annex 1, three rounds of consultations have been conducted with the following outcomes:

Table 10 a: overview of outcomes of consultations and how these have been incorporated in the project design

Round of consultation	Outcome	Incorporation into project design
1. Rapid vulnerability assessment in 7 Khorooos	Identification of key vulnerabilities through community member inputs (see column on the right)	<ul style="list-style-type: none"><li>- Identification of disaggregated data per community, localized climate change hazards, effects of hazards on communities, underlying vulnerabilities and barriers to adapt (see table 1)</li><li>- Identification of risk areas (see figures 10, 11, 12 and 13)</li><li>- Identification of community needs and benefits of possible interventions</li></ul>
2. Community identification and prioritization of climate change resilience building interventions in 7 Khorooos	Priority lists of resilience building interventions per community	<ul style="list-style-type: none"><li>- Insertion of community and vulnerable groups priority interventions into the document in part II.A and table 1 (last column) and table 4</li></ul>
3. Risk screening and impact assessment of selected interventions with beneficiary groups	Identification and confirmation of risk areas and mitigation measures with beneficiaries; Selection of low-risk interventions or	<ul style="list-style-type: none"><li>- In table 13 an overview of potential and social risks and impacts and measures to prevent or mitigate these risks has been provided based on inputs from beneficiaries</li><li>- In annex 5 a detailed overview of potential risks, probabilities and impact of these risks is provided with miti-</li></ul>

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(after screening out of non-cost-effective and non-relevant interventions)	interventions for which risks are manageable	gation measures for those risks that require risk management for the flood protection and drainage infrastructure and resilient sanitation delivery related interventions.
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Table 10b: Participants attended in focus groups discussions

Khoroos name	Participants	Man	Woman	Disabled	Retired	Parents with kindergarten and school age children
7	6	3	3	2	1	2
9	8	3	5	0	4	1
12	13	2	11	1	5	3
13	7	1	6	2	1	2
16	6	2	4	1	2	2
24	5	1	4	1	2	4
25	9	2	7	1	2	3
<b>Total</b>	<b>54</b>	<b>14</b>	<b>40</b>	<b>8</b>	<b>17</b>	<b>17</b>

Table 10c: Participants attended in intervention needs assessments and risks and impacts assessment

Khoroos name	Participants	Man	Woman	Disabled	Retired	Female headed household
7	40	13	27	2	10	0
9	20	6	14	0	4	7
12	48	17	31	1	2	1
13	29	6	23	1	3	2
16	26	7	19	0	9	7
24	17	6	11	1	1	2
25	34	17	17	0	3	0
<b>Total</b>	<b>214</b>	<b>72</b>	<b>142</b>	<b>5</b>	<b>32</b>	<b>19</b>

Detailed information of all the consultation outputs / outcomes including attendance sheets and photos, etc. is provided in annex 1.

Table 11: Consultations and Meetings with key stakeholders

Stakeholder, incl. role/function	Consultation objective	Outcome	Conclusion
Climate Change Research Department, Hydrology and Meteorology Institute, Ministry of Environment and Tourism (MoET)	Discuss the climate change adaptation and mitigation context for Mongolia and UB city	The focus so far was found to be on national level climate change adaptation. The need for urban policies on climate change and more information and data at city level	Agreed on the need for city level climate risk and impact assessment particular focus on Ger-areas necessary, including increasing Public

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Stakeholder, incl. role/function	Consultation objective	Outcome	Conclusion
Dates: 19-25 Apr 2017		A simulation model would be extremely useful for forecasting risks and will be an entry point for MOET and local government cooperation for real-time data sharing and further replication of the initiative for other areas. City officials require capacity building. Public Education and Awareness on climate and resilience in Ger areas very low	Education and Awareness on climate and capacity building
Working group for Waste Management Law revision  Ministry of Environment and Tourism (MoET)  Dates: 19-25 April 2017	Discuss the climate change adaptation and mitigation context for Mongolia and UB city	Team briefed on the results of their assessment of country and UB city current situation of waste management and suggested some of sanitation and waste management issues as potential interventions under the scope of CC adaptation	Agreed to work further to discover more needs of CC adaptation in UB Ger areas and exchanged some of ideas and existing data.
Ulaanbaatar City Governor's office  Dates: 4 May 2017  One of its responsibilities is UB city engineering preparedness for any disaster and operation and maintenance of engineering infrastructure including flood and drainage facilities	Explore their interest in the area of urban resilience and climate change adaptation for Ger Areas	Of the areas of air pollution, waste management, water resource management and flooding which are most impacted by Climate Change, the Mayor's office prioritized the issue of floods resilience as the key priority that requires international support. The UB city flood risk management strategy documents (FRMS) were shared and support was requested for adaptation on flood risks in Ger areas.	UN-Habitat agrees to focus on the thematic area of floods resilience in line with agencies prior work in the sectors and in Ger-areas, and building on the recent flood risk assessment and management strategy developed by the city government.
Songinokhairkhan District – 24, 25 and 7 <sup>th</sup> Khoroo Governors, officials and Communities (6)  Dates: 20-21 July 2017	Meetings with the Khoroo Governors in the Ger-areas designated as most at risk as per UB city FRMS to confirm their urgent needs and interest in partnering in project	All Governors confirmed increased and frequent flooding on high risk areas. Governors provided their local authority teams to supply access and any information required by UN-Habitat team leader and community mobilizers. <sup>29</sup>	Consensus to be a target location for climate change adaptation and floods resilience

<sup>29</sup>An additional Governor from Khoroo 25 (a newly established settlement) was not ready to partner on the initiative as they cited they did not experience flood impacts. Khoroo 25 is located upstream and outfall flows down to other Khoros from this location.

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Stakeholder, incl. role/function	Consultation objective	Outcome	Conclusion
Sukhbaatar District 12, 13 and 16 <sup>th</sup> Khoroo Governors, Officials and Communities (see table below)  Dates: 24-25 July 2017	Meetings with representative and communities including the most vulnerable groups; disabled, elderly, informal people, indigenous people, and migrants	Communities were very responsive and participated in the UN-Habitat rapid needs assessments - See Annex 1,2 for the results from Rapid Settlements Needs Assessment	Target communities are highly vulnerable and require assets strengthening for adaptation to floods and management of water resources, as well as for air quality improvement, waste management, and water sanitation infrastructure.
Bayanzurkh District, 9 <sup>th</sup> Khoroo Governor, Officials and Communities  Dates: 25 July 2017	Meetings with representative and communities including the most vulnerable groups; disabled, elderly, informal people, indigenous people, and migrants	Communities were very responsive and participated in the UN-Habitat rapid needs assessments - See Annex 1, 2 for the results from Rapid Settlements Needs Assessment	Target communities are highly vulnerable and require assets strengthening for adaptation to floods and management of water resources, as well as for air quality improvement, waste management, and water sanitation infrastructure.
Community Consultations in Khoroo 7, 9, 12, 13, 16, 24, 25 –the identified high risk settlements for floods in Ger areas in north of Ulaanbaatar city.  July - December 2017	Three rounds of community consultations (rapid risk and vulnerability assessment, prioritization and vulnerable groups consultations to identify specific issues and needs)	Social mobilizers provided an introduction to climate change globally and how it impacts Mongolia and took the voluntary participants through a series of consultations via the Peoples Process  (1) Identification of issues relevant to climate change (2) Discussion and prioritization of key issues in groups. (3) Possible priority projects to address key issues (4) Depiction on map and presentation to the group.	Finalized priority interventions by communities documented  Link to folders of three consultation reports with attendance sheets (annex will be too large)  Include consultations related to technical feasibility (engineer)
Ministry of Construction and Urban Development Meeting with MCUD – Counterpart Ministry of UN-Habitat with 10 Year MOU for Cooperation on Human Settlements - 2010-2020  Attended by Mr.Gunbold Baatar, Director, Depart-	-Briefing on Asia Pacific Portfolio and regional strategy priorities, and 'Peoples Process' operational approaches;  -Briefing on Adaptation Fund - urban resilience work on climate	Ministry representatives have been briefed as per the objectives of the meeting.  Had a discussion around Habitat III and Habitat III report for Mongolia (to be published by Ministry), NUA/SDGs, and the upcoming World Urban Forum and municipal financing.	Agreement to keep MCUD updated of progress on AF project securing and work together on the areas where MCUD needs technical assistance and support.

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Stakeholder, incl. role/function	Consultation objective	Outcome	Conclusion
ment of Urban Development & Land Affairs policy Implementation and Coordination; and foreign affairs officer.	change adaptation, being proposed by UN-Habitat team for Mongolia  -Briefing by Ministry on status of launch of 'human settlements programme' in country - and request for support particularly around the areas of land tenure, zoning, regulations	Ministry working on a comprehensive review of land legislation and regulations for the country and requested specific technical assistance and support by UN-Habitat	
UN Resident Coordinator and UNDP Resident Representative Ms Beate Trunkmann; and climate change officer UNDP –  Date: 11 December 2017	Discussion on Adaptation Fund proposal, and other topics.	Recommendations to check on work conducted by NEMA on disaster risk reduction as potential synergies Possibility of having UNDP on board as advisory capacity for stakeholder consultation	Agreement to keep agency updated of progress on AF project securing.
Meeting with Mr. Arnaud Heckman, ADB Senior Officer in charge of MFF and Urban Development Specialist.  Date: 14 December 2017	-Update on status of Tranche 1 and 2; and Affordable housing programme loan to MUB, via GCF, as well as other Technical Assistance possibilities by ADB and timelines. -Update on Adaptation Fund proposal by UN-Habitat	Discussion around synergies with Tranche 2 human settlements upgrading in overlapping Ger areas and the 'levels' of investment/intervention of floods resilience measures proposed.	Agreement that UN-Habitat proposed interventions would fully complement the last mile intervention at community level and the large scale resilience measures being planned by ADB for overlapping areas. Agreement that ADB and UN-Habitat keep the other institution posted on the plans and concrete interventions
Mr. Avirmed Dangaa, Head of Programme Management Office (PMO) and City Coordinator, Municipality of Ulaanbaatar (MUB) and Member Ulaanbaatar city Council.	-Briefing on Briefing on ROAP Portfolio, regional programmes and normative and operational 'Peoples Process' approaches	-Municipality appreciated UN-Habitat's ongoing support and community engagement expertise in project implementation in Ger areas.  -Agreement on lack of capacity on urban resilience	Commitment to support the implementation of Adaptation Fund project

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Stakeholder, incl. role/function	Consultation objective	Outcome	Conclusion
Date: 12 December 2017	-Discussion ongoing Community Engagement and SME Development Project with MUB and ADB Affordable Housing project  -Briefing on Adaptation Fund proposal	at all levels of the municipality particularly for climate change issues.  -Municipality welcomes the support and welcomes UN-Habitat's community engagement expertise in project implementation in Ger areas.	
Official meeting with Ministry of Environment and Tourism; specifically with the Climate Change National Designated Official – with Dr. Batjargal Zamba, National Designated Official for all Climate Programmes; and Ms. Chuluunkhuu Baatar, Project Manager for the National communications to UNFCCC, Climate Finance Specialist, Climate change Project Implementation Unit, Nature Conservation Fund Date: 12 December 2017	-Introduction to UN-Habitat and the regional programme -Briefing on status of Adaptation Fund proposal development and substance included	-Discussion around national climate change strategies and priorities and status. -Importance of inclusivity during project setup inception and implementation -Commitment of Ministry National Project Manager to accompany UN-Habitat team during community consultations around proposed interventions on floods resilience	-Agreement on importance of urban resilience for Mongolia -Welcomes the focus on concrete adaptation measures in line with NAPCC Phase II priority. -Secured commitment of MoET endorsement

The results of the three rounds of in-depth community consultations and Focus Group Discussions can be accessed at following dropbox location:

<https://www.dropbox.com/sh/wjt4c2etywcpkou/AAA0XKXzO4ltAydYXZNF6nmYa?dl=0>

## G.I. Justification

The proposed project components, outcomes and outputs fully align with national and local government/institutional priorities and gaps identified, with identified community and vulnerable groups needs and with the Adaptation Fund outcomes as stated will be stated in the Adaptation Fund results framework at the full proposal stage. This alignment has resulted in the design of a comprehensive approach in which the different components strengthen each other and in which outputs and activities are expected to fill identified gaps of Mongolia's and Ulaanbaatar's current climate change response and corresponding institutional capacities. The project aims to maximizing the funding amount for the concrete adaptation component (component 3); funding allocation to the other (softer) components is required for complementarity/support for component 3 and sustainability and quality assurance of the project. The table below provides a justification for funding requested, focusing on the full cost of adaptation reasoning, by showing the impact of AF funding compared to no funding (baseline) related to expected project outcomes.

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**Table 12:** Overview of impact of AF funding compared to no funding (baseline) related to expected project outcomes

Outcomes/planned activities	Baseline (without AF)	Additional (with AF)	Comment and alternative adaptation scenario's
Outcome 1.1. Relevant threat and hazard information / evidence and recommendations for reducing vulnerability at the municipal and community level generated	Detailed/specific climate change threat and hazard information / evidence is not available for Ulaanbaatar, which means the government and communities can't plan for adaptation / resilience measures	The activities related to this outcome will allow the municipal government of Ulaanbaatar and communities to collect information to start planning for adaptation / resilience measures, especially related to floods, also besides and /or beyond the project	Without relevant threat and hazard information / evidence and recommendations for increasing resilience, especially at the community level, interventions will not be appropriate.  The government lacks the capacity and financial resources to execute activities related to this outcome without support
Outcome 2.1. Target community members are aware of climate change impacts and participate in resilience action planning activities	Ulaanbaatar municipality and communities can't plan for adaptation / resilience measures without effective planning processes based on activities executed under outcome 1.1.	The activities related to this outcome will allow the municipal government of Ulaanbaatar and communities to plan for adaptation / resilience measures, especially related to floods.	The municipal government and communities lack the capacity to organize communities and plan effectively for adaptation / resilience.  Without capacity development trainings and workshops planning for adaptation / resilience measures will risk inefficiency and the selection of interventions that are not appropriate
Outcome 3.1. Increased adaptive capacity within relevant development and natural resource sectors at the community level	Target communities have no options (capacity and financial resources) to protect their people and assets against climate change impacts, especially floods	The activities related to this outcome will allow target communities to protect inhabitants and assets against climate change impacts, especially floods	Large scale interventions have the risk of not being community driven and appropriate, which would lead to adaptation benefits for fewer people with the same project cost and a greater chance of negative social and environmental impacts.  Alternative adaptation scenarios are resettlement or construction of

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			more structural buildings (e.g. flats), which are both not in line with needs of the communities and are more costly.
Outcome 4.1.  Project implementation is fully transparent. All stakeholders are informed of products and results and have access to these for replication	Communities and the municipal and national government have limited knowledge of resilient planning and protection of towns, communities and assets	Communities and the municipal and national government have increased knowledge of resilient planning and protection of towns, communities and assets	Communities and the municipal and national government need to develop their own capacity and knowledge products related to resilient urban development, especially in response to floods.
			Without activities related to outcome 4.1. there is a risk that interventions won't be replicated and sustained and demand for adopting similar approaches is not generated; and high level support and engagement for the proposed approach is not mobilized.

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## H.J. Sustainability

The project sees that the main way to sustain the achievement of the project in the long run is by linking the adaptation initiatives and lessons to the establishment of an institutional framework, which supports the community-led climate resilience building and its further replication.

By fully engaging settlement households in project activities, including assessments, the development of plans/ strategies and monitoring, the project aims to achieve building of communities' awareness and capacities and furthermore ownership and leadership in the area of disaster management and urban resilience at community level. The establishment of CDC's through the People's Process has also been a demonstrated success as a cornerstone for community governance which has continued to function long after the end of the project, for the maintenance and management of the strengthened social and physical infrastructure assets produced by this project, and in future, around the needs and priorities as defined by communities themselves.

Investing in increasing the resilience of vulnerable physical, natural, and social assets and ecosystems is a sustainable economic approach. It will not only avoid future costs related to climate change and disaster impacts but it will also enhance livelihood options, improve the health and security of the community.

The city and community level resilience, recovery and upgrading plans will also be considerate of the environment, including for instance the protection of ecosystems or the reduction of waste production to ensure environmental sustainability.

Component 1 of the project which aims to generate evidence and information to better understand climate change related impacts and risks in the most vulnerable and high risk communities of

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Ulaanbaatar. The generation of a **City wide Ger-area Land Use Plan** and the **Ger-khoroo level Land Use Plans** for the 3 most-at-risk Ger-areas, with in-depth stakeholder consultation will instil the municipality, district authorities and khoroo communities with the know-how and skills to replicate Land-use plan development at the level of their jurisdiction as well as consider the underlying risk factors that are vital for consideration during urban planning. Furthermore, the development of a **simulation model** maintained in partnership with the Ministry of Environment and the Municipality of Ulaanbaatar, will strengthen national-municipal links for sharing data for decision-making. Ownership by two separate government entities will enhance the sustainability of initiatives - the model will be designed for the city level with the possibility of scaling up the geographical coverage to include detailed assessments from other high risk areas in the city and beyond; as well as the potential to simulate other climate induced threats (such as water availability and issues also related to mitigation, air pollution – data collection and systems for which could be funded from other sources). – contributing to institutional cooperation and sustainability.

Component 2 is aimed at generation of Khoroo-level **floods resilience action plans**, fully involving communities in the planning and execution of the proposed interventions under Component 3. The trainings conducted for **the management and maintenance of flood resilient infrastructure** via the Community Development Councils (CDC's) that are formed as part of the People's Process will ensure the sustainability and longevity of infrastructure and adaptation measures through the generation of maintenance plans. Experience has shown from countries that involving the communities through their primary groups and CDCs not only ensures their participation during the planning and implementation of the activities but also facilitates in putting in place a plan for the maintenance of the infrastructure. Various approaches like creating savings schemes and establishing maintenance fund have been implemented elsewhere. These issues and approaches will be discussed during the meetings of the CDCs and appropriate and acceptable system will be implemented.

Where possible women and youth will be involved in the execution of maintenance plans. The awareness raising campaigns that accompany will target youth and children who are particularly quick to adapt healthy habits and behaviours as advocates for behaviour change – also towards their parents and elders, in hygiene campaigns. General trainings on current and future climate risks will generate the understanding of the need for, and the means for communities and local authorities to protect the physical assets from potential climate induced economic risks. The **technical engineering and hydrology studies** will ensure the assets are properly designed to a high quality and maximize the impact and sustainability of these concrete interventions. Furthermore, the technical data generated from these studies will be shared with relevant institutions so that institutional capacities for responding to such risks will be sustainably strengthened.

With Component 3 as the main focus of the project, (2/3 of project value) the sustainability of **Physical assets developed or strengthened in response to climate change related flood impacts** will directly benefit the most vulnerable populations in the cities' Ger-areas through two main resilience building interventions: (1) improved drainage systems to reduce floods and (2) improved sanitation systems that won't overflow during floods and lead to health issues.

Community involvement throughout the project via the People's Process, and the opportunity to directly influence project activities and outcomes to best suit the community dynamics as a whole, will ensure buy-in and sustainability of the project interventions over and beyond the duration of the project. Communities working together towards common goals will build mutual trust and strengthen bonds between longer-term host residents and new in-migrant communities generating a positive community spirit and resilient and sustainable social fabric in Ger-areas. The use

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of local materials and designs and local capacities will ensure environmental benefits and economies of scale, allowing project funds to remain/circulate within the local communities who have a vested interest in their self-development. Accompanying awareness components on health and environmental issues within communities will increase adoption of hygienic behaviours and project management training will enhance the management, negotiation and cooperation capacities leading to environmental and social resilience of the communities.

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The **Management & operations; design & supervision of assets / physical infrastructure component, driven by** the international advisory technical team, will ensure professional capacity building and technology transfer leading to improvement of the professional capability of national entities, institutions and national project teams to implement and replicate participatory mechanisms adapted to suit the local context – contributing to sustainable enhancement of national institutional, multi-level municipal and community capacities for implementing concrete adaptation project initiatives.

Component 4 on generation of knowledge, advocacy and dissemination, through **lessons learned and best practices; and workshops and trainings regarding climate (flood) resilient urban development and land use planning** will be targeted district and khoroo communities, policy-makers in government and civil society will allow transparency and city- and district government officials, respectively.

The inception workshop planned for the onset of the project which will bring all key stakeholders at national and local government level, communities, IFI's, donors and civil society with an interest and stakes in the sustainable development of the city, on board, to ensure their inputs and buy in – allowing for a wide ownership and sustainability of the project and ensuing results.

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At the policy level, consultations with the Project Advisory Committee on enhancing existing policies, strategies and plan will also ensure sustainability through embedding the knowledge and technical data within binding legal and regulatory frameworks.

## **I.K. Environmental and social impacts and risks**

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The proposed project seeks to fully align with the Adaptation Fund's Environmental and Social Policy (ESP). Further to Section II.E, above, outlined below is a summary of the findings of the preliminary screening and assessment process that has been carried out to evaluate environmental and social impacts and risks of proposed interventions and based on that, of the entire project. With this information, the entire project has been categorized, and risks and impacts screening sheets completed, including the identification of risks mitigation measures, where needed.

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Part III, section C further describes the essence of the impacts and risks screening, the environmental and social management plan and the risk monitoring system, while annex 5 demonstrates in detail how this project will comply with the AF ESP, which is especially related to dealing with concrete interventions under component 3.

UN-Habitat conducted a project screening of environmental and social risks according to the 15 principles outlined in the AF's Environmental and Social Policy based on analyzing information made available at project design stage. Where potential risks have been identified, preventive or mitigation measures have been proposed appropriate for the significance of the risks. An overview is presented below.

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Institutional strengthening, capacity development and knowledge management activities under Components 1, 2 and 4 have been categorized as low risk. Despite this, steps will be taken to ensure that no environmental or social impacts can occur (see also Section II.E and annex 5).

Activities under Components 3 are ‘concrete’ activities, and as such, some activities have the potential, without an environmental and social safeguarding system, including mitigation measures, to create negative environmental and social impacts. As such, some activities under this component fits into the medium (B) risk category and some into the low (C) risk category. This is because of the scope of the proposed activities, that are numerous, small scale and very localized, and proposed and managed by communities where possible, who have a stake in avoiding environmental and social impacts. This means that the potential for direct impacts is small and localized, that there can be few indirect impacts, and that transboundary impacts are highly unlikely. Given this, cumulative impacts are also unlikely.

Because of the nature of some activities under components 2, the entire project is regarded as a medium risk (Category B) project. Therefore, an ESMP has been developed, as included in annex 5

The project has been designed to generate positive economic, social and environmental impacts, using inputs from especially women and marginalized and vulnerable groups in target communities and by incorporating best practices from other projects. The adaptation measures proposed have been selected together by the communities and local authorities, making sure they are culturally appropriate and local.

**Table 13:** Overview of potential environmental and social impacts and risks measures to prevent or mitigate these.

Checklist of environmental and social principles	Potential risks and significance  (For details see the filled risk screening sheets for the concrete interventions	(Further) assessment procedure and preventive and mitigation measures (For details see annex x and the filled risk screening sheets for the concrete interventions
1. Compliance with the Law	Insufficient alignment with laws and technical standards, especially related to implementation of concrete interventions under components 3.  This principle always applies but the risk is not significant (i.e. low) (see part II.E). The project designed the interventions as such that EIA are not required by national law. This has been confirmed by government authorities	Relevant national and local authorities were consulted during the project design phase to ensure compliance with all relevant laws and technical standards.  It will be ensured that each person associated with the project is aware of domestic and international laws and compliance needs to technical standards requirements (see section E).

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<p>2. <i>Access and Equity</i></p>	<p>Risk that the activity would exclude any potentially affected stakeholders from fully participating in decisions that may affect them risk of unequal distribution among target population / communities and households of project benefits.</p> <p>This principle has been triggered for both concrete interventions and supporting measures that include involvement of communities or government staff (see part II.E and annex 5)</p> <p>The significance of the risk is small (i.e. low). During consultations, it became clear that no specific group is treated differently. However, to ensure that informal settlers, poor people, etc. are involved in decisions that may affect them, a mitigation measure is proposed.</p>	<p>Consultations / a participative approach have and will continue to capture all needs of the target population / communities and households and interventions have been designed according to their 'access' needs and concerns</p> <p>Community organization where everyone can participate, but quotas will be used to ensure different groups are included. Also, criteria for beneficiaries' selection will be established in advance.</p> <p>Primary Groups membership will include all households benefitting from construction of drainage</p>	<p>Formatted: English (United States)</p> <p>Formatted: List Paragraph,List Paragraph-ExecSummary,List Paragraph (numbered (a)),Numbered List Paragraph,List Paragraph1,Bullets,References,WB List Paragraph,List Bullet-OpsManual,Numbered paragraph,List Paragraph2,Medium Grid 1 - Accent 21,Paragraphe de liste1, Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0" + Indent at: 0.25", Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around</p> <p>Formatted: Font color: Text 1, English (United States)</p> <p>Formatted: English (United States)</p>
<p>3. <i>Marginalised and Vulnerable Groups</i></p>	<p>Risk that some vulnerable affected groups may not participate in decisions making processes regarding design and planning of activities that may affect them</p> <p>This principle has been triggered for both concrete interventions and supporting measures that include involvement of communities or government staff (see part II.E and annex 5)</p> <p>The significance of the risk is small (i.e. low). During consultations, it became clear that no specific group is treated differently. However, to ensure that informal settlers, poor people, etc. are involved in decisions that may affect them, a mitigation measure is proposed.</p>		<p>Formatted: List Paragraph,List Paragraph-ExecSummary,List Paragraph (numbered (a)),Numbered List Paragraph,List Paragraph1,Bullets,References,WB List Paragraph,List Bullet-OpsManual,Numbered paragraph,List Paragraph2,Medium Grid 1 - Accent 21,Paragraphe de liste1, Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0" + Indent at: 0.25", Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around</p> <p>Formatted: English (United States)</p>
<p>4. <i>Human Rights</i></p>	<p>Risk that land and tenure arrangements and/or community based property rights are affected; failure to proactively protect the rights (i.e. international standards) of all stakeholders affected by the project</p> <p>This principle always applies but has been triggered for the flood protection and drainage system intervention in Khoroo 7 (see part II.E and annex 5)</p> <p>The significance of the risk is medium: In Khoroo 7, there is 1 km of planned underground drainage. This drainage channel is underground because it will go through some private plots. Although people living in this area agreed with an open-close approach, a risk preventive measure is still</p>	<p>Consultations have and will continue to capture issues related to human rights in target areas</p> <p>Community Development Councils will be formed with membership of all households benefitting from construction. The design of drainage sections will be managed in neighborhood sections which can be managed by these CDCs.</p> <p>Have all possibly affected households sign that they agree with the intervention; include clause in all contract that contractor will comply to human rights markers. An alter-</p>	<p>Formatted: List Paragraph,List Paragraph-ExecSummary,List Paragraph (numbered (a)),Numbered List Paragraph,List Paragraph1,Bullets,References,WB List Paragraph,List Bullet-OpsManual,Numbered paragraph,List Paragraph2,Medium Grid 1 - Accent 21,Paragraphe de liste1, Numbered + Level: 1 + Numbering Style: 1, 2, 3, ... + Start at: 1 + Alignment: Left + Aligned at: 0" + Indent at: 0.25", Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around</p> <p>Formatted: English (United States)</p> <p>Formatted: Font color: Text 1, English (United States)</p> <p>Formatted: English (United States)</p> <p>Formatted: Footer</p>

	<p>proposed to ensure activities will only be executed when all inhabitants directly benefiting / being affected fully agree with the process and all activities.</p> <p>In the eastern part of Khoroo, where the beneficiaries of the planned flood protection wall is planned, land has been confirmed public (i.e. informal).</p>	<p>native drainage plan will be developed (and has already been considered) if inhabitants don't agree.</p> <p>The UN-Habitat Human rights officers and PAC will check compliance.</p>
5. <i>Gender Equity and Women's Empowerment</i>	<p>Women and men do not have equal opportunities to participate in the project and do not benefit equally from interventions</p> <p>This principle has not been triggered for concrete interventions but will be taken into account for supporting measures and to align with the AF gender policy (see part II.E and annex 5)</p> <p>Women are well represented at all level of government and in communities. Therefore, there is no reason to think women will have unequal opportunities to participate in the project and do not benefit equally from interventions.</p>	<p>Consultations / a participative approach have and will continue to capture all needs of the target population / communities and households and interventions have been designed according to their 'access' needs and concerns</p> <p>The project complies to the AF gender policy with gender targets, involvement of women committees at Khoroo level and women representatives at the ministerial level. Trainings only inviting women may be organized</p>
6. <i>Core Labour Rights</i>	<p>Risk of employing underage people and to support underpayment and unsafe working conditions; executing entities for the project may not adhere to the ILO labour Standards and national labour laws.</p> <p>This principle always applies but has been triggered for the flood protection and drainage system intervention (see part II.E and annex 5)</p> <p>The significance of the risk is small (i.e. low): there is limited knowledge of safe work conditions. However, there is no reason people won't adhere to ILO standards.</p>	<p>The project will monitor that international and national labour laws and codes are respected, for any work that may be carried out in relation to the project. This includes the eight International Labour Organization Convention (ILO) core labour standards related to fundamental principles and rights of workers, as well as ILO Convention No. 169, which concerns rights of indigenous and tribal peoples. Contracts will be reviewed periodically to ensure compliance with these laws.</p> <p>This will be done by ensuring transparency and accountability and by including standard clauses requiring the compliance with ILO conventions and country level standard in MoUs, AoC and contracts.</p> <p>Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.</p>

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7. <i>Indigenous Peoples</i>	<p>The principle has not been triggered for concrete interventions.</p> <p>During consultations, it became clear that, as a result of the communist time, different groups are not discriminated or treated differently</p>	
8. <i>Involuntary Resettlement</i>	<p>Risk of temporary or permanent and full or partial physical displacement (see also principle 4)</p> <p>This principle has been triggered for the flood protection and drainage system intervention (see part II.E and annex 5)</p> <p>The significance of the risk is medium: In Khoroo 7, there is 1 km of planned underground drainage. This drainage channel is underground because it will go through some private plots. Although people living in this area agreed with an open-close approach, a risk preventive measure is still proposed to ensure activities will only be executed when all inhabitants directly benefiting / being affected fully agree with the process and all activities.</p>	<p>Consultations have and will continue to capture issues related to human rights in target areas</p> <p>Community Development Councils will be formed with membership of all households benefitting from construction. The design of drainage sections will be managed in neighborhood sections which can be managed by these CDCs.</p> <p>Have all possibly affected households sign that they agree with the intervention; include clause in all contract that contractor will comply to human rights markers. An alternative drainage plan will be developed (and has already been considered) if inhabitants don't agree.</p> <p>The UN-Habitat Human rights officers and PAC will check compliance.</p>
9. <i>Protection of Natural Habitats</i>	<p>These principles have not been triggered for concrete interventions.</p>	<p>Initial risk screening assessments have not identified potential risks related to these principles</p>
10. <i>Conservation of Biological Diversity</i>	<p>However, the project will ensure the principle will be taking into account when developing land use plans and technical studies, thus ensuring compliance to the AF</p>	<p>Including standard clauses requiring the compliance with the safeguard areas in AoC and contracts;</p>
11. <i>Climate Change</i>	<p>ESP</p>	<p>screening the plans for consideration of the risk areas.</p>
12. <i>Pollution Prevention and Resource Efficiency</i>	<p>Risk that consumption of raw materials will have a negative effect (elsewhere)</p> <p>This principle has been triggered for the flood protection and drainage system intervention (see part II.E and annex 5)</p> <p>The significance of the risk is small: the interventions will require cement, soil and rock. Although the practice is that these are purchased through Mongolian companies, a preventive measure is proposed to ensure soil and rocks are not mined from areas where it can have a negative effect, such as from the river.</p>	<p>Discuss with companies and check source of material before purchase</p>

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13. <i>Public Health</i>	Risk that elements of activity construction, operation, or decommissioning pose potential safety risks to local communities (see also principle 6)	The project will monitor that international and national labour laws and codes are respected, for any work that may be carried out in relation to the project. This includes the eight International Labour Organization Convention (ILO) core labour standards related to fundamental principles and rights of workers, as well as ILO Convention No. 169, which concerns rights of indigenous and tribal peoples. Contracts will be reviewed periodically to ensure compliance with these laws.
	This principle has been triggered for both concrete interventions (see part II.E and annex 5)	This will be done by ensuring transparency and accountability and by including standard clauses requiring the compliance with ILO conventions and country level standard in MoUs, AoC and contracts.
	The significance of the risk is small (i.e. low): there is limited knowledge of safe work conditions. However, there is no reason companies and people won't adhere to ILO standards. To ensure they will, a mitigation measure is proposed.	Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment
14. <i>Physical and Cultural Heritage</i>	The principle has not been triggered for concrete interventions.	Initial risk screening assessments have not identified cultural sites that could be affected by interventions.
	However, the project will ensure the principle will be taking into account when developing land use plans and technical studies, thus ensuring compliance.	Including standard clauses requiring the compliance with the safeguard areas in AoC and contracts; screening the plans for consideration of the risk areas.
15. <i>Lands and Soil Conservation</i>	The principle has not been triggered for concrete interventions.	Initial risk screening assessments have not identified any risk related to this principle
	However, the project will ensure the principle will be taking into account when developing land use plans and technical studies, thus ensuring compliance. Also, the technical studies will include a soil analysis component as required by law.	Including standard clauses requiring the compliance with the safeguard areas in AoC and contracts; screening the plans for consideration of the risk areas.

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## 4. PART III: IMPLEMENTATION ARRANGEMENTS

### A. Arrangements for project management

#### KEY STAKEHOLDERS & IMPLEMENTATION ROLES

The project will be implemented by UN-Habitat as an integral part of the UN-Habitat Mongolia Country Programme with inputs from the UN-Habitat Climate Change in Cities Initiative via the Regional Office for Asia and the Pacific, through establishment of a **Project Implementing Unit (PIU)**.

UN-Habitat will engage with **UNOPS** for the execution of the hardware components for climate adaptation in the Ger-areas, harnessing their operational capacity to deliver technical infrastructure outputs as done in other countries in Asia Pacific through establishment of a **Project Execution Unit (PEU)**.

The project will be implemented in close coordination with two key national partners, i.e. **the Municipality of Ulaanbaatar** and **the Ministry of Environment and Tourism**, who will be the main national executing entities. The day-to-day project implementation activities will be carried about by the Ulaanbaatar-based PIU, and PEU to be situated in the districts of Ulaanbaatar city where the proposed project sites are located.

The following section identifies the main stakeholders and their key functions, roles and responsibilities for the project. The project organogram, which follows the management arrangement section, depicts the key stakeholders for the project and how they will coordinate with each other.

#### The Ministry of Environment and Tourism (MoET)

The Ministry is the key custodian of the Adaptation Project within the Government of Mongolia and will retain oversight and provide policy guidance through its role as co-chair of the Project Advisory Committee (PAC) – the main advisory board for the project

The Ministry will also be the National Level Executing Entity with joint-custodianship of all 'soft' knowledge products generated to support the resilience building of urban ger-areas along with the Municipality of Ulaanbaatar, and directly benefit from the component on forecasting future climate impacts via the climate simulator. The MoET as lynchpin for all national/city level strategies is a key stakeholder for many of the issues to be addressed by this project and as such the Ministry is well placed to coordinate and ensure stakeholder engagement, as well as mainstreaming project findings into policies

**The Ministry** will provide all necessary guidance, support and information for the successful implementation of the Project, including the following:

- a) Support in all environment related administrative issues for the construction of flood facilities in the selected project sites in Ger areas
- b) Assistance for the completion of administrative formalities related to environmental impact assessment, permission, approval, and related matters
- c) Support for the organisation of policy dialogues and capacity development activities
- d) Provision of staff time for Policy Advisory Committee (see section 3 below)

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## **The Municipality of Ulaanbaatar (MUB) and Local Authorities**

The Municipality will be the main city level Executing Entity with joint-custodianship of all 'soft' knowledge products generated to support the resilience building of urban ger-areas along with the MoET, and directly benefit from the component on forecasting future climate impacts via the creation and launch of the climate simulator.

Building on UN-Habitat's existing and ongoing relationship with the Municipality, UN-Habitat will work closely with the Mayor's office under the Mayor, the relevant District level Governors, the Khoroo Governors and ger-communities to capacitate them in implementing via the People's Process. The main recipients of the trainings to be conducted as part of the People's Process will be the Municipal, District and Khoroo level authorities identified as partners for the project areas; to also include the municipal level NEMA team working on disaster response – providing the link between city level disaster response and emergency preparedness and climate adaptation and response.

The Municipality will provide all necessary support and information for the successful implementation of the Project, including the following:

- a) Establishment of the Project Coordination Unit.
- b) Support in all administrative issues for the construction of flood facilities in the selected project sites in ger areas including the land issues
- c) Assistance for the completion of administrative formalities related to construction design, permission, approval, and related matters
- d) Support for the organisation of policy dialogues and capacity development activities
- e) Identify synergies between the National Emergency Management Agency (NEMA) and the project goals; particularly through establishing direct linkage with the municipal level team, around the training and capacity building activities
- f) Provision of staff time for Policy Advisory Committee and Project Coordination Unit (see section 3 below)

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## **Project Coordination Unit (PCU)**

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This unit will be the main technical and operational wing of the Government for the project, maintained within the municipality for implementation oversight, technical and operational clearance of standards and procedures and ensuring compliance and consistency with national and city level strategies and plans. They will also facilitate day to day coordination and of the Peoples Process Approach adapted to the Ulaanbaatar context and remove institutional and legal delays and bottlenecks ensuring the project will be delivered in a timely manner.

The PCU will be run by a committee chaired by the General Manager under the Mayor's Office of UB City and co-chaired by the Implementing Entity Project Manager in the Mongolia Country Office, supported by the UN-Habitat Regional Office for Asia and the Pacific as necessary. Khoroo Governors, Project Field ~~Engineers~~Engineers and Social Mobilizers will be key members of the PCU; and Community Development Council (CDC) representatives will be invited to participate at all formal sessions.

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The PCU will formally meet every four months (and every 2 months during the construction season) to review the following:

- review status of all planning aspects of the physical works in the area
- review status of all AOC signing, disbursement and implementation status
- review the financial statement / progress
- review the physical progress of the activities

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- assist in solving issues at community level and at official level
- provide suggestions on managing the project

#### **Project Implementing Unit (PIU)**

This Unit will provide project management support and oversight, will serve as the secretariat to the Project Advisory Committee and will take the role of quality assurance within the project. UN-Habitat has been a longstanding partner for the Municipality of Ulaanbaatar and the agencies expertise in dealing with ger communities and ability to implement upgrading and adaptation projects on a significant scale is recognized and valued by all partners (see list of projects interventions in ger settlements in Ulaanbaatar included in Annex 4).

##### (i) PIU will ensure:

- efficient and effective implementation of project activities;
- efficient coordination with project partners;
- efficient coordination with ROAP-Fukuoka for necessary supervision and support to the project implementation;
- identify bottlenecks and potential impediments to project execution and raise with the project advisory committee to ensure decisions and action are taken
- identify synergies with potential project partners to add value to project and facilitate cooperation as necessary and
- any other activities, as necessary.

##### (ii) PIU will consist of:

- UN-Habitat ROAP: Human Settlements Officer -Team Leader (International 1); Programme Management Team
- UN-Habitat Mongolia Office: Project Manager (National 1), Coordination/ Communications Specialist (National 1), Monitoring and Reporting Officer (National 1)

The PIU will work consistently with the PCU and all executing entities to ensure the project will be implemented in a timely manner, in view of the critical time window available for construction in Mongolia. With the project focusing on 2/3 of the project funds on the implementation of concrete adaptation measures, and the construction season being very short, any delays would significantly hinder the smooth implementation of the physical measures. The proposed Management Arrangements are designed with this critical issue in mind, particularly the Project Execution Unit within UNOPS, which will be designed for quick delivery of hard infrastructure complemented by the equally important quality checks and community consultation compliance by the Peoples Process execution team to be carried out by an executing INGO.

The PIU will also raise potential issues with the Adaptation Funds designated focal point/team and solicit advice and views for any proposed changes to the project design and or delays to the project execution

Furthermore the PIU will be responsible for ensuring that cross cutting issues such as gender and youth responsiveness, ensuring human rights throughout the implementation of the project. The assurance of gender, youth and human rights will be the role of the PIU National Project Manager as Country representative of UN-Habitat in Mongolia, but the day to day monitoring around these issues will substantively fall into and be explicitly stated in the Terms of Reference of the National Coordination and Communications Specialist, and also the Monitoring and Reporting Officer for monitoring gender and youth issues at field execution level. The Monitoring and Reporting Officer will be responsible for delivering a training (in close cooperation with International Advisors for the project) to the Social Mobilizers of the Executing Entities on approaches for addressing Gender and Youth issues during project execution via the People's Process; and monitoring their compliance during project delivery. An additional training will be done on human rights and the community grievance mechanism. The

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Coordination and Communications Specialist will work with the International Advisors for the project to identify specific measures on addressing gender and youth issues during the project inception phase which will be reviewed with all stakeholders during the inception workshop – and moreover will work with the Monitoring and Reporting Officer to carry out a rapid Knowledge Attitude and Practices (KAP) survey through targeted focus groups of women and youth at the beginning and end of the project to review and evaluate the impact of the project on gender and youth within target communities – and particularly whether the project provided benefits to these vulnerable groups in terms of skills development, employment – key issues prevalent in Mongolia

### **Project Execution Unit (PEU)**

The management, design, and operational setup of administration and logistics for all of the components will be done via a Project Execution Unit setup with executing entities UNOPS and INGO. Due to the complex setup and nature of the project UN-Habitat will be involved in the selection of international advisory team for both executing entities, who will have a strong background in complex community development projects and institutional strengthening. All international advisors and direct project execution team will be part of the technical management and substantive monitoring consultancy services signed between UN-Habitat, UNOPS and INGO

UN-Habitat decided to engage with another UN agency and an INGO rather than a national executing agency due to the complex nature of the operational and monitoring setup and stringent checks and balances required of the People's Process; and also based on prior experience implementing projects with UNOPS and INGO, via the Peoples Process in other countries in Asia and the Pacific and globally. The contracting modality between the UN-Habitat, UNOPS and INGO will be a UN to UN agreement and AOC respectively, negotiated at the regional level and cleared by respective headquarters.

- i. PEU will ensure:
  - a) Efficient and effective implementation of project activities;
  - b) Efficient coordination with beneficiary communities;
  - c) Efficient coordination with the key stakeholders for successful implementation of the project; and
  - d) Any other activities, as necessary.
- ii. PEU will consist of:
  - a. Climate Change Advisor (International 1); Community Development & Contract Advisor (International 1);
  - b. Field Engineer (National 1); Urban Planner (National 1); Operations/Finance Officer (National 1); Social Mobilizers (National 6);

PEU will also include a short term knowledge management advisor to support the activities related to high level advocacy and advisory inputs for rollout of ICT initiatives such as the simulator; supported by a national coordination and communications officer who will ensure field level monitoring & public information as well as knowledge dissemination and social media support for Components 3 and 4 respectively.

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UNOPS will facilitate the administration of Agreements of Cooperation (AoCs) related to Output 3.1. The INGO<sup>30</sup> will provide technical advisory support on the aspects related to the People's Process and community contracting. UN-Habitat will sign community contracts (Community Implementation Agreements) directly with the Community Development Councils.

## Ger Communities

The Ger Communities will be key executing entities for community level infrastructure adaptation works through the formation of Community Development Councils (CDC's) of which one will be setup per khoroo, and depending on the scale of the work planned for the location. Primary Groups (PG's) consisting 20 or so households per group will be setup and recipient of one community contract with UN-Habitat.

The formation of the CDC's and the Primary Groups through the People's Process undergo lengthy consultation steps where consensus is sought and gained across the entire community, by the community, before moving ahead to the next stage of project execution. Furthermore the selection of the representatives that form these groups are done by the community through a vote using the principle of participation, hence the communities will take extra care in the selection of individuals they believe would represent their best interests as a whole and who would not engage in activities that are detrimental to the financial/economic, physical/environmental and human/social dimensions of the project and would be questioned by the communities themselves in such events, thus minimizing risk. This approach fosters trust, strengthens the social fabric and builds resilient communities

Below are the roles and functions of the CDC's and the Primary Group's in relation to the People's Process.

### Primary Groups

- Group of 20 households will form Primary Group of the beneficiaries interested in installing improved latrines
- They will elect one Chair, one Vice Chair, one Treasurer and one Secretary
- With the assistance of the Social Mobilizer and Field Engineer the PG will prepare plan for implementing the improved latrines (format provided)
- They will receive contract from their CDC to implement improved toilets in their plot in given format
- The AOC (see above) will be countersigned by the Khoroo Governor
- Funds will be disbursed in three instalments based on 75% work completion of each tranche/instalment, confirmed by PEU.
- Upon completion of the construction they will submit financial report for the amount received and completion report in format provided
- They will be responsible for collecting 10% household contribution before the disbursement of the first instalment
- Social Mobiliser and Field Engineer will provide assistance to prepare the community contract for signature with the CDC

<sup>30</sup> Details of Proposed INGO: Strategic Centre for Disaster Risk Reduction (SCDRR) was registered in Nepal in 2011 as a non-governmental organization. The focus of the organization is to protect and prevent loss of life, property and environment from disaster (natural and man-day) and climate change adaptation by preparing the community through community organization, pre-disaster risk reduction, mitigation, education, outreach and training programs. The organization seeks to collaborate with both national and international agencies in these efforts. The team members of the organization have focused their activities in post-earthquake reconstruction training; bio-engineering in physical construction for slope stabilization; assessment (seismic, vulnerability, floods and landslide prone zones); etc. Two of the team members have extensive experience in community mobilization and involvement in many different contexts in Nepal, India, Bangladesh, Indonesia, South Sudan, Mongolia, Afghanistan, etc.

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### **Community Development Councils**

- The Chair of each Primary Group will be the member of the CDC
- They will elect one Chair, one Vice Chair, one Treasurer and one Secretary
- With the assistance of the Social Mobilizer and Field Engineer the CDC will prepare an integrated schedule of plans received from the PGs.
- In Year 2: They will receive contract from UN-Habitat for the following:
  - 40% of the improved latrines units allocated for the Khoroo
- In Year 3: They will receive contract from UN-Habitat for the following:
  - 60% of the improved latrines units allocated for the Khoroo
- The AOC will be countersigned by the Khoroo Governor
- The CDC will sign community contract with the respective Primary Groups who have collected 10% of their contribution
- The CDC will make subsequent disbursement based on physical progress and financial report certified by the Project Engineer and Social Mobilizer
- The CDC will prepare progress report and financial report and submit to UN-Habitat every three months
- The CDC will meet every four months (every 2 months during the construction season) to
  - review status of all planning aspects of the physical works in the area
  - review status of all AOC signing, disbursement and implementation status
  - review the financial statement / progress
  - assist in solving issues at community level and at official level
  - provide suggestions on managing the project

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### **LEGAL AND FINANCIAL ARRANGEMENTS**

UN-Habitat, the Ministry of Environment and Tourism, the Municipality of Ulaanbaatar (MUB) and the General Manager and Head of the Governor's Office of Ulaanbaatar, the District Governors and Ger-Communities within Songinokhairkhan, Bayanzurkh and Sukhbaatar will sign a joint **Memorandum of Understanding** to which this Project Document will be attached, to ensure that all partners are fully committed to the project.

The PEU will develop an operational manual that clearly outlines the roles and responsibilities of the key project stakeholders and contain all the necessary tools, forms and templates required to administer the project. The operation manual will be shared with the Project Coordination Unit (PCU) for inputs, cleared by the Project Implementation Unit (PIU) of UN-Habitat and endorsed by the Project Advisory Committee (PAC).

### **GOVERNANCE ARRANGEMENTS**

At the national level, the Project will be supported by a **Project Advisory Committee (PAC)**. The PAC will be formed to oversee and keep abreast of project progress and facilitate the implementation of the project, including overseeing and cooperating with the project implementing and project executing team, the technical advisory groups..

The PAC will be chaired by the Mayor and the Vice Chair will be the Special Envoy for Climate Change of the MoET. The Secretariat services will be provided by UN-Habitat. The voting member from UN-Habitat will be the responsible officer at the Regional Office for Asia and the Pacific (Team Leader) or his/her designate. Other voting members will be the members as shown in the organigram.

The PAC will: (1) approve annual work plans and review key project periodical reports; (2) will review and approve the contractual agreements, including work plans, with a particular emphasis on environmental and social safeguards, budgets and payment schedules; (3) review any deviations and consider amendments to work plans and contractual arrangements.

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The PAC will meet at least once every six-months and whenever needed in fulfillment of the above functions.

## LAUNCH OF PROJECT

At the launch of the project UN-Habitat's PIU together with the PEU will organize a **high-level inception workshop** inviting all key stakeholders cited within project as well as INGO's, academia, civil society and donors and representatives of the community, in order to present the concept, approach and the proposed outputs of the project, discuss impact and solicit feedback and inputs on a wide scale in a participatory manner. Comments and feedback will be sought, captured and incorporated for designing the most appropriate implementation workplan for the project. The plan for the ~~inception~~inception workshop will be presented to the Project Advisory Committee (PAC) within two month of securing the project. UN-Habitat will hold the inception workshop within three months of approval of the project by Adaptation Fund and clearance through UN-Habitat systems.

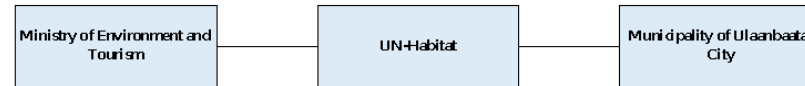
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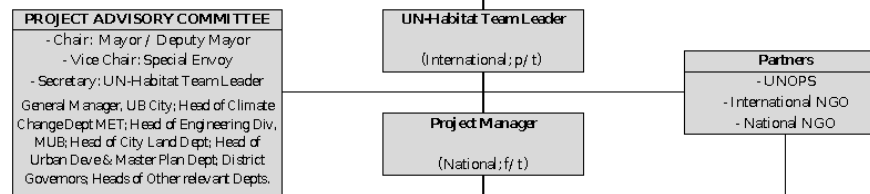


## ORGANOGRAM OF THE PROJECT

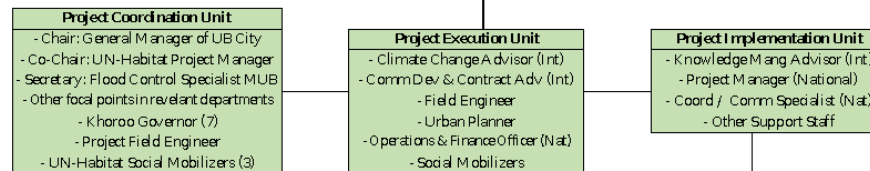
### 1. Project Implementation Entities



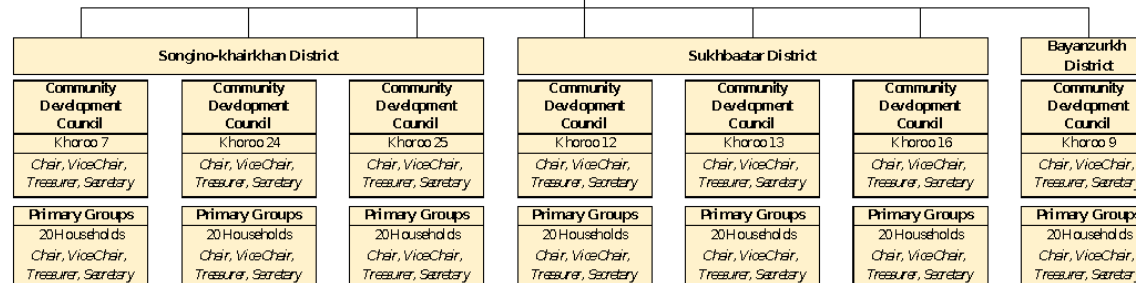
### 2. Project Implementation Unit



### 3. Project Execution Team



### 4. Community Level



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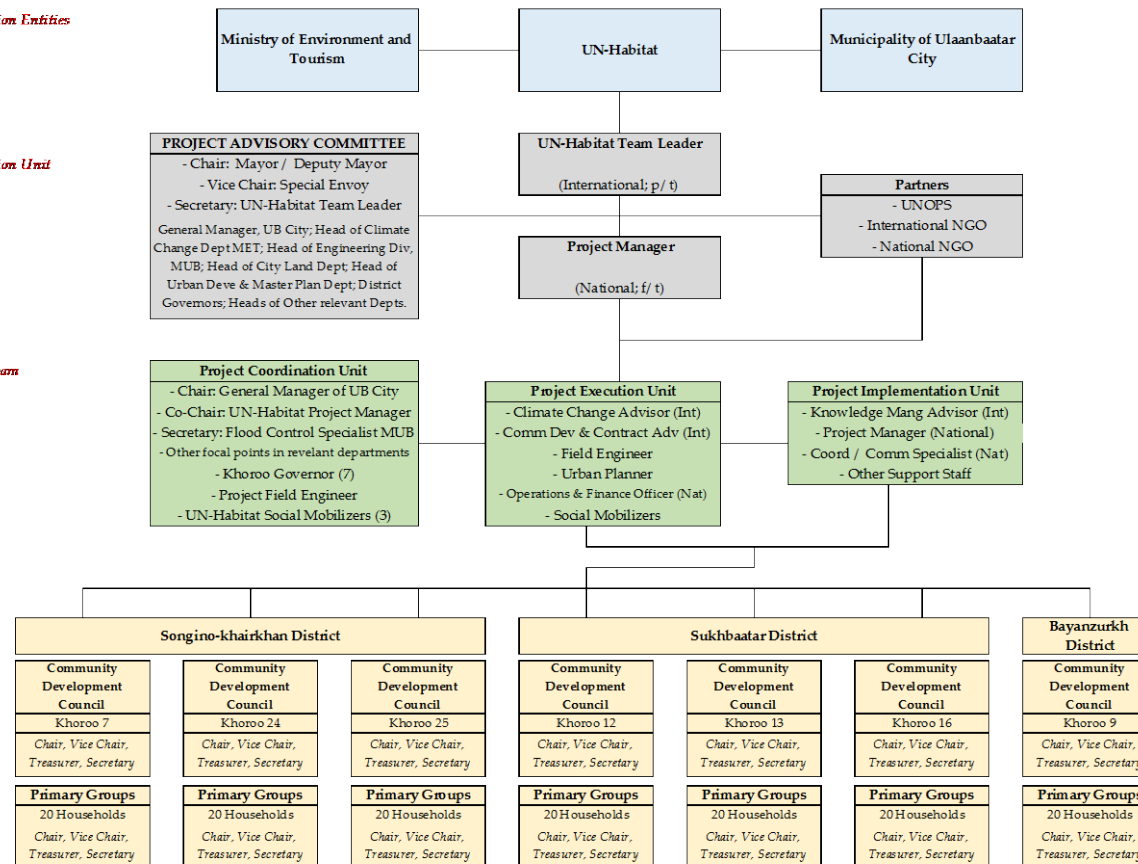


### 1. Project Implementation Entities

### 2. Project Implementation Unit

### 3. Project Execution Team

### 4. Community Level



## B. Measures for financial and project risk management

Under guidance of the UN-Habitat Regional Team Leader, supported by the Project Manager, Field Monitoring Officer will monitor the status of financial and project management risks, including those measures required to avoid, minimise or mitigate these risks, throughout the project (please see also Section D, Part III)

The main financial and project risk are related to short construction seasons due to cold weather and the lack of ministerial support due to regular change of government. Besides that, the lacking capacity regarding land use planning, community organization and high quality and resilient infrastructure delivery requires quality control from UN-Habitat side.

The table below gives an overview of overall project management and financial risks, an assessment of the significance of the pertaining risks in terms of probability and impact and outlines measures that have been embedded in the project design in order to manage and/or mitigate these risks.

**Table 14:** overview of financial and management risks and measures to mitigate these

Nr	Category and risk	Rating of probability and impact (1: Low; 5: High)	Management/mitigation measure
1.	Environmental/social: Current climate and seasonal variability and long winters (October – April) result in infrastructure construction delays	Impact: 4 Prob: 2 (medium)	It is proposed that the project will start in October so that there will be three (3) summers within the project duration and enough time for the technical design and approval of it.
2.	Institutional: Loss of government support (at ministerial and municipal level) for the project (activities and outputs) may result in lack of prioritization of AF project activities.	Impact: 2 Prob: 3	<p>Establishment of a project advisory and coordinator committees and the overall participatory and inclusive project design will improve national, municipal/ district and beneficiary level ownership throughout and thus enhance government support for project implementation.</p> <p>UN-Habitat will establish agreements (MoUs and AoCs) to ensure executing entities will deliver project activities and outputs. UN-Habitat will facilitate planning processes to deliver these outputs at all levels of government and in communities.</p> <p>A strong participatory approach at the community level is required to ensure ownership and support of communities.</p>
3.	Institutional: Loss of government support (at Khoroo / community level) for the project (activities and outputs) may result in lack of prioritization of AF project activities; Due to communist history	Impact: 2 Prob: 2	<p>A strong participatory approach at the community level is required to ensure ownership and support of communities.</p> <p>UN-Habitat already has strong ties in the target Khoros from former projects.</p>

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	and many immigrant community organisation is limited.		
4.	Institutional: Capacity constraints of local institutions, communities and the private sector may limit the effective implementation of interventions	Impact: 2 Prob: 2	<p>UN The project has a strong capacity building and training component (component 2), designed to promote effectiveness and sustainability at the community level.</p> <p>UN UN-Habitat will contract expert in the field of climate change and land use planning, community organization and technical design and M&amp;E to ensure quality control from UN-Habitat side.</p>
5.	Financial: Inflation and instability of the national currency leading to budget issues and increased prices for infrastructure delivery	Impact: 3 Prob: 2	<p>UN All budgets will be in US\$.</p> <p>UN Include clause in contract with private sector that they can't increase the costs during the project duration.</p>
6.	Financial: Inflation and instability of the national currency leading to budget issues and increased prices for infrastructure delivery	Impact: 3 Prob: 2	<p>UN All budgets will be in US\$.</p> <p>UN Include clause in contract with private sector that they can't increase the costs during the project duration.</p>
7.	Institutional: Communities may not adopt activities during or after the AF project, including infrastructure maintenance	Impact: 3 Prob: 1	<p>UN To ensure ownership and sustainability, community members will need to bring in 10 percent of the value of the latrines.</p> <p>UN Capacity building and training of communities will be undertaken to improve their awareness and understanding of the benefits of the activities, including infrastructure maintenance (component 2).</p> <p>UN Communities will be involved in project implementation/decision making throughout the project. In depth community consultations will take continue to take place.</p>
8.	Financial: Complexity of financial management and procurement. Certain administrative processes could delay the project execution or could lack integrity	Impact: 2 Prob: 1	<p>UN Financial management arrangements have been defined during project preparation.</p> <p>UN UN-Habitat's control framework, under the financial rules and regulations of the UN secretariat, will ensure documentation of clearly defined roles and responsibilities for management, internal auditors, the governing body, other personnel and demonstrates prove of payment / disbursement.</p> <p>UN Procurement will be done by the executing entities as agreed through AoCs (with relevant conditions). The project manager and the project team have a certifying role (for key procurements / expenditures). The Project Management Officer (PMO) in ROAP will have the oversight responsibility.</p>

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			UN-Habitat will assist communities with contracting appropriate private sector partners, including clear conditions and binding arrangements in the contract
9.	Institutional:  A lack of coordination between and within national government Ministries and Departments.	Impact: 1 Prob: 1	The Project Advisory Committee under the leadership of the MoET is to ensure coordination. Should UN-Habitat observe coordination problems, the agency will try to resolve issues directly with concerned parties and or the PAC.

### C. Measures for the management of environmental and social risks

Sections II.E and II.K show the outcome of a systematic screening and assessment process that has been done based on information from consultation with national and local government stakeholders, a wide range of other concerned stakeholders as well as the target communities. The project design has benefitted from this process.

To ensure that remaining risks are well managed, the project management and governance section (Section III.A) and the Monitoring and Evaluation section (Section III.D + designated budget) fully take the management of environmental and social risks into account. In addition, annex x fully demonstrates how the project complies with the ESP and annex x shows how the Environmental and Social risks will be managed through an ESMP.

The ESMP developed for this project, and detailed in Annex 5, lists all potential risks identified and the preventive / mitigation measures proposed to reduce potentially adverse environmental and social impacts to acceptable levels. The plan also shows how these potential risks and mitigation measures will be further motored, including responsibilities. Specifically, the ESMP:

- (i) Identifies and summarizes all anticipated adverse environmental and social risks and impacts in line with the Adaptation Fund's ESP principles;
- (ii) Provides information about the significance of the risks of interventions
- (iii) Describes mitigation measures, both from the perspective of mitigating risks at each activity and from the perspective of upholding all ESP principles.
- (iv) Refers to responsibilities and sections where responsibilities for further screening and monitoring is discussed.
- (v) Takes into account, and is consistent with, other mitigation plans required for the project in particular those that relate to national law

Sections II.E and II.K provide an overview of the 15 principles, the initially screened and assessed risks and potential need for further screening, assessments and monitoring throughout the project.

Additional to the risk mitigation measures identified in the ESMP in annex 5, the following elements will be put in place to ensure the compliance with the ESP:

- (i) All MoUs and Agreements of Cooperation with Executing Entities will include detailed reference to the ESMP and in particular the 15 ESP Principles.
- (ii) The ToR of Committees and Advisory Groups, project personnel and focal points will include will include detailed reference to the ESMP and in particular the 15 ESP Principles.
- (iii) All key Executing Entity Partners will receive training / capacity development to understand the 15 Principles, the ESMP and in particular their responsibilities. This will include members of the Project Advisory Committee, the Project Coordination Unit and the Communities.

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- (iv) A Monitoring and Evaluation Framework, including monitoring of risks and mitigation measures, will be developed by the project management team and presented for approval to the Project Advisory Committee.
- (v) The UN-Habitat Human Rights Officers and PAC will check project compliance to the AF ESP during the project (besides the project manager).
- (vi) A grievance mechanism will be put into place, allowing any affected stakeholder to raise concerns, anonymously if they wish

## D. Arrangements for monitoring, reporting and evaluation

The AF project will comply with formal guidelines, protocols and toolkits issued by the AF, UN-Habitat and the government of Mongolia. The Monitoring and Evaluation (M & E) of progress in achieving project results will be based on targets and indicators established in the Project Results Framework (see below). Besides that, the status of identified environmental and social risks and the ESMP, including those measures required to avoid, minimize, or mitigate environmental and social risks, will be monitored throughout the project (at the activity level and through annual project performance, mid-term and terminal reports). The same applies to financial and project management risks and mitigation measures.

### Monitoring and Evaluation Framework

UN-Habitat will ensure the timeliness and quality of project implementation. The oversight and general guidance of the project will be provided by the Project Advisory Committee. UN-Habitat will ensure that the project team and the key national executing partners are fully briefed on the M&E requirements.

Activities for Component 3 will be detailed through consultation with the local stakeholders through their Community Development Councils and with the participation of the local authorities (Khoroo/District). Local indicators and targets will be reviewed and fine-tuned during the planning workshop. This exercise will facilitate participatory, results-based monitoring by the communities themselves.

Activities related to other components will be planned and monitored by the Project Implementation Unit and approved by the Project Advisory Committee.

Audit of the project's financial management will follow UN finance regulations and rules and applicable audit policies.

The M&E plan will be implemented as proposed in the table below.

**Table 15: M & E plan**

Type of M&E Activities	Responsible Parties	Time Frame	Reporting
Inception Workshop and Report	Project Manager Project Implementation Unit Project Advisory Committee UN-Habitat ROAP	Workshop: within first two months of start Report: within first quarter	Inception Report
Periodic status/progress reports	Project Manager and PIU team members	Quarterly	Quarterly Report

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Final Evaluation	Project Manager and PIU team members UN-Habitat ROAP Project Advisory Committee External Consultants	At least three months before the end of project implementation	Final Evaluation Report
Project Terminal Report	Project Manager and PIU team members UN-Habitat ROAP Local consultant	At least three months before the end of the project	Terminal Report
Audit	UN-Habitat ROAP Project Manager and PIU team members	As per UN-Habitat regulations	Audit Reports
Community consultations / workshops / training	Project Manager and PIU team members	Within one week after each event	Documentation
Visits to field sites	UN-Habitat ROAP Project Advisory Committee Government representatives	Every six months	Field Report

For the M & E budget and a breakdown of how implementing entity fees will be utilized in the supervision of the M&E function, please see the detailed budget (section G). For related data, targets and indicators, please see the project proposal results framework (section E).

## M&E Activities

### a. Project Advisory Committee

The Project Advisory Committee will meet every six months, and ad-hoc meetings will be held as needed. The meeting will review the delivery of inputs and outputs, project progress and provide guidance and coordination. The first Project Advisory Committee meeting will be held within the first two months of the start of the project.

### b. Periodic Project Site Visits

Members of the Project Advisory Committee and representatives of UN-Habitat will visit project sites and hold meetings with the local stakeholders to review the implementation of project activities.

### c. Community Level Participatory Monitoring

At the community level, the Primary Groups and Community Development Councils will prepare a plan for the community level activities. Annual targets to measure progress will be established through a participatory process/workshop which will be facilitated by the project field staff (social mobilizers).

Project activities implemented at the community level as part of Component 3 will be primarily monitored by the Primary Groups and Community Development Councils according to the targets and indicators set in the annual plan. A participatory community monitoring system will be the basis for measuring project progress. Particularly for the improved latrines, the Primary Groups will collect household beneficiary data, map location of the beneficiaries in the Khoroo and photo document progress of construction.

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The findings will be discussed during the monthly meetings of the Primary Groups and Community Development Councils and documented through written minutes. This will not only involve the communities in data collection but also provide opportunity to discuss issues in project implementation, replication and maintenance.

The reports from the community level will be aggregated and feed into the overall project monitoring and reporting.

To track the gender and youth responsiveness and impact of the project a rapid survey on Knowledge Attitudes and Practices (KAP) will be organized by the national implementation team through targeted Focus Group Discussions with women and youth during the project.

#### **d. Final Evaluation**

Three months before the end of the project and before the final meeting of the Project Advisory Committee meeting, a final evaluation will be conducted following UN-Habitat guidelines. It will be conducted by an independent team of international and national experts.

The scheduling of the final evaluation and the terms of reference will be discussed at the Project Advisory Committee and consulted with the donor. The Terms of Reference will be prepared by UN-Habitat focusing on delivery of project activities as initially planned (or modified after the mid-term evaluation) and will also look at the impact and sustainability of the results. The evaluation will provide recommendations for follow-up activities.

#### **e. Financial Audits**

A professional, certified organization will review the financial management of the project and adherence to required standards and regulations.

#### **f. Monitoring of the potential intervention risks and mitigation measures**

In part II. E (table 8) it is shown what risk areas (i.e. principles) have been triggered per project output / activity and concrete interventions. This is based on a risk screening and impacts assessment (as shown in Annex 5), which in turn are based on community inputs (consultations round 2-3) and field visits. For the non-concrete activities, information is provided about how to limit risks (even though they are already low). Monitoring / reporting on these will be done annually as shown below.

Annex 5 includes monitoring indicators and frequency and monitoring responsibilities for monitoring for identified potential risks and mitigation measures for the flood protection and drainage and resilient latrines concrete interventions and supporting measures under other components (see last part of the ESMP). Reporting on these will be done annually as shown below.

### **Reporting**

#### **a. Inception Workshop and Report**

By the end of the first quarter of the start of project implementation, an Inception Report will be submitted to the Project Advisory Committee and the donor.

A Project Inception Workshop will be held within the first three months of the start of the project to help build ownership of the project. It will be participated by members of the Project Advisory Committee, representative from the Khoroo/District level, representatives from the community and members of the Project Implementation Unit. One of the outputs of the workshop will be to prepare the annual work plan for year one.

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The Inception Workshop will address a number of key issues, including:

- a. assist all participants to fully understand the project objectives and activities and take ownership of the project
- b. discuss the organizational structure of the project
- c. discuss the roles and responsibilities of all agencies involved in the project including decision making, reporting, and lines of communication
- d. discuss conflict resolution mechanisms.
- e. review and agree on the indicators, targets and their means of verification, and recheck assumptions and risks.
- f. prepare and framework finalize the annual work plan for year one.
- g. discuss project monitoring, evaluation and reporting requirements
- h. discuss financial procedures.

## b. Quarterly Reports

The Project Implementation Unit will be responsible for preparing the Quarterly Reports to be submitted to the Project Advisory Committee and the donor. The Project Manager will prepare the report based on information the field staff and reports from the CDCs. A qualitative Bi-annual Report will be prepared once a year and an Annual report including a financial status report once a year. The report will be submitted by the end of the first month of the next quarter.

The Social Mobilizers (Field Coordinators) will prepare quarterly reports if the field activities in consultation with the Khoroo CDCs and discussed at the Khoroo Level Coordination Unit. After that the report will be provided to the UN-Habitat Project Manager as input for the Project Quarterly Report.

## c. Annual Project Reports

The Project Implementation Unit will be responsible for preparing the Annual Reports to be submitted to the Project Advisory Committee and the donor. The Project Manager will prepare the report based on information the field staff and reports from the CDCs. The Annual Report will include project activities implemented from 1 January to 31 December and submitted by 31 January.

The Social Mobilizers (Field Coordinators) will prepare quarterly reports for the field activities in their area of responsibility in consultation with the Khoroo CDCs and discussed at the Project Coordination Unit. After that, the report will be provided to the UN-Habitat Project Manager as input for the Project Annual Quarterly Report.

The Annual Report will include:

- progress made towards the project objectives and project outcome with indicators for cumulative progress
- project outputs delivered as per annual targets in the annual plan
- lessons learned and better practices identified
- comments on risk assessment and adaptive measures
- environmental and social risks (i.e. status of implementation of ESMP, including those measures required to avoid, minimize, or mitigate environmental and social risks. The reports shall also include, if necessary, a description of any corrective actions that are deemed necessary;
- project financial and management risks (same as per above).
- financial status

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•• other issues, concerns, observations.

#### **d. Site Visit and Community Level Meeting /Workshop / Training Reports**

The Social Mobilizers (Field Coordinators) will prepare photo documented site visit reports and reports on all community-level meetings, workshops, and training within one week of the event.

#### **e. Final Evaluation Report**

The Team Leader of the team of independent consultant will prepare the Final Evaluation Team which will describe the achievements made by the project based on the project reports, field visits and consultations with all stakeholders. The report will provide reasons for discrepancies between the expected and actual results and also elaborate on the impact and sustainability of the results.

#### **f. Terminal Report**

The Project Manager and members of the Project Implementation Unit will prepare a comprehensive Terminal Report during the last three months of the project. It will summarize the results achieved (objectives, outcomes, outputs), lessons learned, problems and other relevant issues.

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## E. Project proposal results framework

**Table 16:** Project results framework with indicators, their baseline, targets, risks & assumptions and verification means.

Expected Result	Indicators	Baseline data	Targets	Risks & assumptions	Data collection method	Frequency	Responsibility
<b>Project objective:</b> enhance the climate change resilience of the seven§ most vulnerable Ger khoroo settlements focusing on flooding in Ulaanbaatar City							
<b>Project component 1:</b> Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at the city, District and Khoroo level.							
<b>Outcome 1.1</b> Relevant threat, hazard information, evidence and recommendations (on land use and zoning) generated for increasing resilience at the city level	See below outputs  (In line with AF outcome 1: reduced exposure at national level (which is also city level in Mongolia) to climate-related hazards and threats)						
<b>Output 1.1.</b> One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan, with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on 1.2 *(includes the three (3) high risk target districts covering the seven (7) most vulnerable khorooos)	Number of Territorial land use plans with identified flood risks developed  In line with AF indicator, 1.1. No. and type of projects that conduct and update risk and vulnerability assessments  Women participating in planning process	0	One (1)	Ensure criteria to assess the plans with model and how they are managed are clear	Compile and analyse data on current threats and hazards information (sector, scale and intervention) as baseline. Collect data from government staff managing the plans and models	Baseline, mid-term and end	UN-Habitat
<b>Output 1.2.</b> Simulation model for forecasting future impacts of climate change flooding in UB city & Ger-areas established	Number of flood simulation models developed  In line with AF indicator 1.1. No. and type of projects that conduct and update risk and	0	One (simulation model)		Participation lists and photos	Baseline, mid-term and end	UN-Habitat

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	vulnerability assessments						
<b>Output 1.3.</b> Seven (7) Detailed Ger-khoroo level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people	Number of Territorial land use plans with identified flood risks developed  In line with AF indicator 1.1. No. and type of projects that conduct and update risk and vulnerability assessments  Women participating in planning process	0	Seven (7)			Baseline, mid-term and end	UN-Habitat
<b>Project Component 2:</b> Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroo and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3).							
<b>Outcome 2.1</b> Target inhabitants are aware of resilience building and climate risk reduction processes and have ownership over proposed interventions at the District, Khoroo and community level	Percentage of targeted population aware of predicted flood risks and appropriate responses  In line with AF indicator 3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	0	Mid-term: 30 % End: 50 %  > 50 % women	Active engagement in action planning – to be recorded in community consultations	Surveys: use scale from 1 to 5 to summarize findings of analysis	Baseline, mid-term and end	Executing entities
<b>Output 2.1.</b> Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; A series of District, Khoroo and commu-	Number of Khoroo-level flood resilience action plans  In line with AF indicator 3.1.1 No. and type of risk reduction actions	0	Seven (7)	Ensure criteria to assess the plans and how they are managed are clear	Compile and analyse data on current threats and hazards information (sector, scale and intervention) as baseline. Col-	Baseline, mid-term and end	Executing entities and UN-Habitat

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community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3	or strategies introduced at local level  Women participating in planning process		> 50 % women		lect data from government staff managing the plans and models  Participation lists and photos		
<b>Output 2.2.</b> Khoroo / community level interventions operation & maintenance* and awareness campaigns and trainings to support the sustainable implementation of interventions under component 3. *(Awareness will also cover potential risks mitigation)	Number of awareness campaigns and trainings  In line with AF indicator 3.1.1 No. and type of risk reduction actions or strategies introduced at local level  Women participating	0	4 per Khoroo	Awareness raising campaigns and trainings are focused on operation and maintenance needs of concrete interventions and to mitigate potential risks.	Training reports - count of trainings and of response to needs (operation, maintenance and mitigation).  Participation lists and photos	Baseline, mid-term and end	UN-Habitat
<b>Output 2.3.</b> Technical studies – Engineering and hydrological - required to implement the interventions under component 3.	Number of studies  Women participating	0	Four (4) for the flood protection and drainage intervention (1x Khoroo 7, 2x Khoroo 9 and 1 x Khoroo 24)	The studies need to comply to both national and AF requirements for risks assessment	Assess studies with purpose to identify compliance	Baseline, mid-term and end	UN-Habitat
<b>Project component 3:</b> Enhance resilience of community level flood protection assets							
<b>Outcome 3.1</b>  Increased adaptive capacity within prioritized community assets  (In line with AF outcome 4: increased adaptive capacity within relevant development and natural resource sectors).	See below outputs  In line with AF indicator 4.2. Physical infrastructure improved to withstand climate change and variability-induced stress						

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<b>Output 3.1</b> Physical assets developed or strengthened in response to climate change related flood impacts as prioritized (by Khoros drainage and sanitation) – implemented through community contracting	Number of physical assets strengthened, constructed, and/or modified. to reduce or withstand floods	0	Four (4) for the flood protection and drainage intervention: 1x Khoroo 7 2x Khoroo 9 1 x Khoroo 24	Interventions will be subdivided into sections manageable by community groups (see budget); these needs to be grouped for monitoring and evaluation	Count the number of assets that the project has strengthened, constructed, and/or modified.  Assess appropriateness of assets through surveys	Baseline, mid-term and end	UN-Habitat	Formatted: English (United Kingdom)	
	In line with AF indicator 4.1.2. No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)		Seven (7) for the sanitation interventions: 7 x in 7 Khoros (see detailed numbers in budget)	Calculate the number of assets that have been fully completed during the period under review.  Criteria to measure appropriateness of toilets for women, elderly and disabled need to be clearly defined				Formatted: p1	
	Toilets are appropriate for women, elderly and disabled where required		>50 % of toilets adapted to specific needs					Formatted: Footer, Tab stops: Not at 3" + 6"	
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<b>Output 3.2</b> Management & operations; design & supervision of assets / physical infrastructure – procured as consulting services	Not relevant							Formatted: Footer	
Project component 4: Awareness raising, knowledge management and communication									Formatted: English (United States)
<b>Outcome 4.1</b> Institutional capacity strengthened to develop and replicate this approach	See output below  In line with AF indicator 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses								Formatted: English (United Kingdom)
<b>Output 4.1.</b> Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other	Number of institutions trained	0	>1 municipal >3 districts	Approach to replicate the approach should be agreed upon between the municipality, districts and Khoros	Training reports - count of trainings and of response to needs (operation, maintenance and mitigation).	Regular	UN-Habitat	Formatted: p1	
	In line with AF indicator 2.1. No. and type of							Formatted: Footer, Tab stops: Not at 3" + 6"	
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Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms.	targeted institutions with increased capacity to minimize exposure to climate variability risks				Participation lists and photos		
Workshops and trainings will be organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans.	Women participating		> 50 % women				

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**Table 17** Activities and milestones

Project Components	Milestones	Main Activities	2018	2019				2020				2021			
			4	1	2	3	4	1	2	3	4	1	2	3	4
			8												
<b>component 1:</b> Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at the city, District and Khoroo level.	Output 1.1. and 1.3.	Procurement preparation and administration for land use plans	x	x	x	x									
	Territorial land use plans with identified flood risks developed	Development of land use plans that especially include identification and response to flood risks areas through a) analysis of past climate variables (rainfall, temperature etc) in the targeted area; b) study on basin coverage of dry beds and small rivers around the Ulaanbaatar city, especial attention to percentage of urbanization, urbanization effect basin cover change (and also basin morphometry); c) estimate of flash flood discharge with different return period of small rivers and dry beds by different flood estimation methods and technologies in the selected study area, etc.		x	x	x									
	Output 1.2.	Procurement preparation and administration for the development of the simulation model	x	x	x	x									
	Simulation Model developed	Development of city wide simulation models forecasting impacts of Climate Change and flooding, which includes a) simulation of extreme flood case using hydro meteorological model; b) projection and downscaling of climate change and extreme event (flood, heat wave etc) frequency and intensity; c) flood producing rainfall intensity analysis around the Ulaanbaatar city; d) impact and risk assessment of flood on targeted area			x	x									
		Hazard maps development for Ulaanbaatar city/ger areas				x									



## F. Project alignment with the Adaptation Fund results framework

**Table 18** Project alignment with the Adaptation Fund results framework

Project Outcome	Project Outcome Indicator	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
<b>Outcome 1.1:</b> Relevant threat, hazard information, evidence and recommendations (on land use and zoning) generated for increasing resilience at the city level	See related outputs below	<b>Outcome 1:</b> Reduced exposure at national (and city) level to climate-related hazards and threats	1. Relevant threat and hazard information generated and disseminated to stakeholders on a timely basis	391,790
<b>Outcome 2.1.</b> Target inhabitants are aware of resilience building and climate risk reduction processes and have ownership over proposed interventions at the District, Khoro and community level	Percentage of targeted population aware of predicted flood risks and appropriate responses	<b>Outcome 3:</b> Strengthened awareness and ownership of adaptation and climate risk reduction processes at local level	3.1. Percentage of targeted population aware of predicted adverse impacts of climate change, and of appropriate responses	442,186
<b>Outcome 3.1.</b> Increased adaptive capacity within prioritized community assets	See related outputs below	<b>Outcome 4:</b> Increased adaptive capacity within relevant development and natural resource sectors	4.2. Physical infrastructure improved to withstand climate change and variability-induced stress	2,660,000
<b>Outcome 4.1.</b> Institutional capacity strengthened to develop and replicate this approach	See related outputs below	<b>Outcome 2:</b> Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses	2.1. Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses	255,694
Project Output	Project Output Indicator	Fund Output	Fund Output Indicator	Grant Amount (USD)
<b>Output 1.1.</b> One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan, with zoning, legal framework recommendations and a specific focus on	Number of Territorial land use plans with identified flood risks developed	<b>Output 1.</b> Risk and vulnerability assessments conducted and updated at a national level	1.1. No. and type of projects that conduct and update risk and vulnerability assessments	91,790

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flood risk reduction - building on 1.2* (includes the three (3) high risk target districts covering the seven (7) most vulnerable khoros)				
<b>Output 1.2.</b> <b>Simulation model</b> for forecasting future impacts of climate change flooding in UB city & Ger-areas established	Number of flood simulation models developed	<b>Output 1:</b> Risk and vulnerability assessments conducted and updated at a national level	1.1. No. and type of projects that conduct and update risk and vulnerability assessments	<b>50,000</b>
<b>Output 1.3</b> Seven (7) Detailed Ger-khoroo level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people	Number of Territorial land use plans with identified flood risks developed	<b>Output 1:</b> Risk and vulnerability assessments conducted and updated at a national level	1.1. No. and type of projects that conduct and update risk and vulnerability assessments	<b>250,000</b>
<b>Output 2.1.</b> Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; A series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3.	Number of Khoroo-level flood resilience action plans	<b>Output 3:</b> Targeted population groups participating in adaptation and risk reduction awareness activities	3.1.1 No. and type of risk reduction actions or strategies introduced at local level	<b>195,390</b>
<b>Output 2.2.</b> Khoroo / community level interventions operation & maintenance* and awareness campaigns and trainings to support the sustainable implementation of inter-	Number of awareness campaigns and trainings	<b>Output 3:</b> Targeted population groups participating in adaptation and risk reduction awareness activities	3.1.1. No and type of risk reduction actions or strategies introduced at local level	<b>196,796</b>

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ventions under component 3. <i>*(Awareness will also cover potential risks mitigation)</i>				
<b>Output 3.1:</b>  Physical assets developed or strengthened in response to climate change related flood impacts as prioritized (by Khorroos drainage and sanitation) – implemented through community contracting	Number of physical assets strengthened, constructed, and/or modified. to reduce or withstand floods	<b>Output 4:</b> Vulnerable physical, natural, and social assets strengthened in response to climate change impacts, including variability	4.1.2. No. of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by asset types)	<b>2,265,904</b>
<b>Output 4.1</b>  Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms.  Workshops and trainings will be organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans.	Number of institutions trained	<b>Output 2:</b> Strengthened capacity of national and regional centres and networks to respond rapidly to extreme weather events	2.1. No. and type of targeted institutions with increased capacity to minimize exposure to climate variability risks	<b>255,694</b>

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**Table 19** Indicative Core Indicator Targets

Adaptation Fund Core Indicators	Indicative Targets	Comments
1 Number of Beneficiaries	50 % of target communities  Flood protection and drainage infrastructure <input checked="" type="checkbox"/> Direct with interventions area: 29.865 (15.270 women) <input checked="" type="checkbox"/> Total target community:	A percentage of targets beneficiaries applies. Beneficiaries of supporting / soft activities are not considered here but are in place in the results framework.

	<p>33.829 <u>(17.253 women)</u></p> <p>Flood resilient latrines</p> <p><u>2</u> <input type="checkbox"/> Direct with interventions area: 6.064 <u>(&gt; 3.092 women)</u></p> <p><u>Female headed house</u> <u>holds are primarily tar-</u> <u>geted</u></p> <p><u>2</u> <input type="checkbox"/> Total target community: 88.839439 <u>(45.456</u> <u>women)</u></p>	
3. Assets Produced, Developed, Improved, or Strengthened	<p>Four (4) for the flood protection and drainage intervention: 1x Khoroo 7 2x Khoroo 9 1 x Khoroo 24</p> <p>Seven (7) for the sanitation interventions: 7 x in 7 Khoroo</p> <p><u>(see more details in the budget)</u></p>	
4. Increased income, or avoided decrease in income	Numbers can't be estimated	Community infrastructure is expected to contribute to increased income generation in because of improved mobility and health as effect from reduced flooding impacts

Methodology to apply: <https://www.adaptation-fund.org/wp-content/uploads/2016/04/AF-Core-Indicator-Methodologies.pdf>

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## G. Detailed budget

**Table 20** Detailed Budget

Project Components	Expected Concrete Outputs	Expected Concrete Outcomes	TOTAL	Year	Year	Year	Year	%
				1 6 m	2 12 m	3 12 m	4 6 m	
<b>Component 1</b> National/City Level Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at UB City level.	<b>Output 1.1</b> One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan, with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on 1.2 *(includes the three (3) high risk target districts covering the seven (7) most vulnerable khoros)	<b>Outcome 1.1</b> Relevant threat, hazard information, evidence and recommendations (on land use and zoning) generated for increasing resilience at the city level (In line with AF outcome 1: reduced exposure at national (and city) level to climate-related hazards and threats)	91,790	23,263	68,526	-	-	2.0%
	<b>Output 1.2</b> Simulation model for forecasting future impacts of climate change flooding in UB city & Ger-areas established		60,000	5,000	55,000	-	-	1.3%
	<b>Output 1.3</b> Seven (7) Detailed Ger-khoroo level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people		250,000	-	250,000	-	-	5.6%
<b>Component 2</b> Khoroo/Community level Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroo and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3).	<b>Output 2.1</b> Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; A series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3.	<b>Outcome 2.1</b> Target community members are aware of resilience building and climate risk reduction processes and have ownership over proposed interventions at the District, Khoroo and community level (In line with AF outcome 3: strengthened awareness and ownership of adaptation and climate risk reduction processes at local level)	195,390	48,463	146,926	-	-	4.3%
	<b>Output 2.2</b> Khoroo -community level in-terventions operation & maintenance and awareness campaigns and trainings to support the sustainable implementation of interventions under component 3. (An Estimated 20 nos trainings)		212,956	41,334	71,104	61,104	39,414	4.7%
	<b>Output 2.3</b> Technical studies – Engineering and hydrological - required to implement the interventions under component 3.		50,000	-	50,000	-	-	1.1%

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Project Components	Expected Concrete Outputs	Expected Concrete Outcomes	TOTAL	Year	Year	Year	Year	%
				1 6 m	2 12 m	3 12 m	4 6 m	
<b>Component 3</b> Enhance resilience of community level flood protection assets	<b>Output 3.1</b> Physical assets developed or strengthened in response to climate change related flood impacts as prioritized (drainage and sanitation) – implemented through community contracting	<b>Outcome 3.1</b> Increased adaptive capacity within prioritized community assets (In line with AF outcome 4: increased adaptive capacity within relevant development and natural resource sectors)	<b>2,225,904</b>	-	1,029,384	1,041,670	154,850	49.5%
	<b>Output 3.2</b> Management & operations; design & supervision of assets / physical infrastructure – procured as consulting services		<b>418,780</b>	51,883	141,268	141,268	84,361	9.3%
<b>Component 4</b> Awareness raising, knowledge management and communication	<b>Output 4.1</b> Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms. Workshops and trainings will be organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans	<b>Outcome 4.1</b> Institutional capacity strengthened to de-velop and replicate this approach (In line with AF outcome 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses)	<b>244,682</b>	41,641	69,564	93,990	39,486	5.4%
<b>Sub-total Programme Costs</b>			<b>3,749,501</b>	<b>211,584</b>	<b>1,881,773</b>	<b>1,338,033</b>	<b>318,111</b>	<b>83.3%</b>
<b>Project Execution Costs</b>								
	Project Manager		<b>17,000</b>	4,250	4,250	4,250	4,250	
	National Operational Staff		<b>226,404</b>	18,867	75,468	75,468	56,601	
	Travel Related to Execution		<b>12,000</b>	3,000	3,000	3,000	3,000	
	Operations		<b>108,189</b>	9,016	36,063	36,063	27,047	
	Evaluation		<b>30,000</b>	-	4,000	4,000	22,000	
	<b>Sub-total Project Execution Costs</b>	<b>9.50%</b>	<b>393,593</b>	<b>35,133</b>	<b>122,781</b>	<b>122,781</b>	<b>112,898</b>	<b>8.7%</b>
<b>SUB-TOTAL</b>			<b>4,143,094</b>	<b>246,717</b>	<b>2,004,554</b>	<b>1,460,814</b>	<b>431,009</b>	<b>92.1%</b>
<b>Programme Cycle Management Fee</b>	Project Support Cost (ROAP) - Project Management Committee Meetings - IE staff salaries / supervision of reports etc. - Project supervision missions	1.25%	<b>51,789</b>	3,084	25,057	18,260	5,388	
	Evaluation Support costs (HQ)		<b>10,000</b>	1,500	2,800	3,900	1,800	
	PSC 7 percent on total operational budget including components below) approx 7 percent	7.00%	<b>294,342</b>	17,591	142,269	103,808	30,674	
	<b>Sub-total Programme Cycle Management Fee</b>	<b>8.60%</b>	<b>356,130</b>	<b>22,175</b>	<b>170,126</b>	<b>125,968</b>	<b>37,861</b>	<b>7.9%</b>
<b>Amount of Financing Requested</b>			<b>4,499,224</b>	<b>268,892</b>	<b>2,174,679</b>	<b>1,586,782</b>	<b>468,871</b>	<b>100.0%</b>

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Project Components	Expected Concrete Outputs	Expected Concrete Outcomes	TOTAL	Year	Year	Year	Year	%
				1 6 m	2 12 m	3 12 m	4 6 m	
<b>Component 1</b> National/City Level Producing hazard and risk information / evidence for increasing resilience and developing land use plans to increase this resilience at UB City level.	<b>Output 1.1</b> One (1) Ulaanbaatar northern Ger-Area* Territorial Land Use Plan, with zoning, legal framework recommendations and a specific focus on flood risk reduction - building on 1.2. *(includes the three (3) high risk target districts covering the seven (7) most vulnerable khoroos)	<b>Outcome 1.1</b> Relevant threat, hazard information, evidence and recommendations (on land use and zoning) generated for increasing resilience at the city level (In line with AF outcome 1: reduced exposure at national (and city) level to climate-related hazards and threats)	91,790	23,263	68,526	-	-	2.0%
	<b>Output 1.2</b> Simulation model for forecasting future impacts of climate change flooding in UB city & Ger-areas established		60,000	5,000	55,000	-	-	1.3%
	<b>Output 1.3</b> Seven (7) Detailed Ger-khoroos level Land Use Plans with specific focus on flood risk reduction and building resilience of the most vulnerable areas and people		250,000	-	250,000	-	-	5.6%
<b>Component 2</b> Khoroo/Community level Participative planning and capacity development for flood resilience in Ger-areas at the district / khoroo and community level (including activities to operate and maintain - and mitigate any potential risks related to - the interventions under component 3).	<b>Output 2.1</b> Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; A series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3.	<b>Outcome 2.1</b> Target community members are aware of resilience building and climate risk reduction processes and have ownership over proposed interventions at the District, Khoroo and community level  (In line with AF outcome 3: strengthened awareness and ownership of adaptation and climate risk reduction processes at local level)	195,390	48,463	146,926	-	-	4.3%
	<b>Output 2.2</b> Khoroo -community level interventions operation & maintenance and awareness campaigns and trainings to support the sustainable implementation of interventions under component 3. (An Estimated 20 hrs trainings)		212,956	41,334	71,104	61,104	39,414	4.7%
	<b>Output 2.3</b> Technical studies – Engineering and hydrological - required to implement the interventions under component 3.		50,000	-	50,000	-	-	1.1%
<b>Component 3</b> Enhance resilience of community level flood protection assets	<b>Output 3.1</b> Physical assets developed or strengthened in response to climate change related flood impacts as prioritized (drainage and sanitation) – implemented through community contracting	<b>Outcome 3.1</b> Increased adaptive capacity within prioritized community assets (In line with AF outcome 4: increased adaptive capacity within relevant development and natural resource sectors)	2,225,904	-	1,029,384	1,041,670	154,850	49.5%
	<b>Output 3.2</b> Management & operations; design & supervision of assets / physical infrastructure – procured as consulting services		418,780	51,883	141,268	141,268	84,361	9.3%

Project Components	Expected Concrete Outputs	Expected Concrete Outcomes	TOTAL	Year	Year	Year	Year	%
				1	2	3	4	
				6 m	12 m	12 m	6 m	
<b>Component 4</b> Awareness raising, knowledge management and communication	<b>Output 4.1</b> Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms. Workshops and trainings will be organised targeting city and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans	<b>Outcome 4.1</b> Institutional capacity strengthened to de-velop and replicate this approach (In line with AF outcome 2: Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses)	244,682	41,641	69,564	93,990	39,486	5.4%
<b>Sub-total Programme Costs</b>			3,749,501	211,584	1,881,773	1,338,033	318,111	83.4%
<b>Project Execution Costs</b>	Project Manager		17,000	4,250	4,250	4,250	4,250	
	National Operational Staff		226,404	18,867	75,468	75,468	56,601	
	Travel Related to Execution		12,000	3,000	3,000	3,000	3,000	
	Operations		108,189	9,016	36,063	36,063	27,047	
	Evaluation		30,000	-	4,000	4,000	22,000	
	<b>Sub-total Project Execution Costs</b>	9.50%	393,593	35,133	122,781	122,781	112,898	8.8%
<b>SUB-TOTAL</b>			4,143,094	246,717	2,004,554	1,460,814	431,009	92.2%
<b>Programme Cycle Management Fee</b>	Project Support Cost (ROAP) - Project Management Committee Meetings - IE staff salaries / supervision of reports etc. - Project supervision missions	1.16%	48,060	2,862	23,253	16,945	5,000	
	Evaluation Support costs (HQ)		10,000	1,500	2,800	3,900	1,800	
	PSC 7 percent on total operational budget including components below) approx 7 percent	7.00%	294,081	17,576	142,142	103,716	30,647	
	<b>Sub-total Programm Cycle Managment Fee</b>	8.50%	352,141	21,937	168,195	124,562	37,446	7.8%
<b>Amount of Financing Requested</b>			4,495,235	268,655	2,172,749	1,585,375	468,456	100.0%

### **Project Execution Cost**

- a. The Human Settlement Officer at the Regional Office of UN-Habitat will provide oversight support for which \$4,250 is budgeted every year with a total budget of \$17,000 for the project period.
- b. The above Officer will visit the Project area for monitoring the activities. Four missions are scheduled for the project period for which \$12,000 is allocated.
- c. Following national staff are budgeted:
  - Deputy Program Manager for 36 person-months at \$4,645 per month with a total allocation of \$167,220. The staff member will be contracted through UNDP or LICA.
  - Two drivers for 72 person-months at \$822 per month with a total allocation of \$59,184.
- d. Following Operations costs are budgeted:
  - Operation of two vehicles including fuel, maintenance, insurance, parking at \$1,000 per month. Total budget \$36,000.
  - Communication costs at \$100 per month. Total budget \$3,600.
  - Office rent at \$1,400 per month. Total budget \$50,400.
  - Office operations at \$350 per month. Total budget \$12,600.
  - Office supplies and stationery at \$155 per month. Total budget \$5,589
- e. \$30,000 has been budgeted for project evaluation including support from UN-Habitat HQ.

### **Project Cycle Management Fee**

- a. Project Support Cost by the UN-Habitat Regional Office is budgeted at 1.15% of total cost.
- b. UN-Habitat HQ Project Support Cost is budgeted at 7% of total cost.
- c. \$10,000 has been budget for UN-Habitat HQ Evaluation Unit support to the project

**Table 21** Budget notes

Components		TOTAL	Year	Year	Year	Year	Rate	Year	Year	Year	Year	Year
			1	2	3	4		1	2	3	4	1
			6 m	12 m	12 m	6 m		6	12	12	6	36
<b>Output 1.1</b>												
Main Partner	AOC	50,000	10,000	40,000	-	-						
Workshops, Consultations		2,400	800	1,600	-	-	400	2	4			6
Report		2,000	-	2,000	-	-	1,000	2				2
Climate Change Assessment Specialist		20,218	6,739	13,478	-	-	6,739	1	2			3
Travel	ICA	17,172	5,724	11,448	-	-	5,724	1	2			3
<b>Sub-total</b>		<b>91,790</b>	<b>23,263</b>	<b>68,526</b>	-	-						
<b>Output 1.2</b>												
Main Partner	AOC	50,000	-	50,000	-	-						
Knowledge Management Specialist		10,000	5,000	5,000	-	-	5,000	1	1			
<b>Sub-total</b>		<b>60,000</b>	<b>5,000</b>	<b>55,000</b>	-	-						
<b>Output 1.3</b>												
Main Partner	AOC	250,000	-	250,000	-	-	35,714		7			
<b>Sub-total</b>		<b>250,000</b>	-	<b>250,000</b>	-	-						
<b>TOTAL</b>		<b>401,790</b>	<b>28,263</b>	<b>373,526</b>	-	-						
<b>Output 2.1</b>												
Main Partner	AOC	130,000	30,000	100,000	-	-						
Climate Change Assessment Specialist	ICA	20,218	6,739	13,478	-	-	6,739	1	2			3
Travel		17,172	5,724	11,448	-	-	5,724	1	2			3
Report		10,000	-	10,000	-	-	1,000		10			10
Workshops, Consultations, Action Plan		18,000	6,000	12,000	-	-	1,000	6	12			18
<b>Sub-total</b>		<b>195,390</b>	<b>48,463</b>	<b>146,926</b>	-	-						
<b>Output 2.2</b>												
Community Deve and Infrast Advisor	INGO	48,000	12,000	12,000	12,000	12,000	12,000	1	1	1	1	4
Travel		22,896	5,724	5,724	5,724	5,724	5,724	1	1	1	1	4
Urban Planner	LICA	23,346	3,891	7,782	7,782	3,891	1,297	3	6	6	3	18
Social Mobilizers		79,974	13,329	26,658	26,658	13,329	1,481	3	6	6	3	18
Report	INGO	10,000	-	10,000	-	-	1,000		10			10
Workshops, Consultations, Action Plan	INGO	13,440	3,840	3,840	3,840	1,920	320	12	12	12	6	42
Training	INGO	15,300	2,550	5,100	5,100	2,550	425	6	12	12	6	36
<b>Sub-total</b>		<b>212,956</b>	<b>41,334</b>	<b>71,104</b>	<b>61,104</b>	<b>39,414</b>						
<b>Output 2.3</b>												
Main Partner		50,000	-	50,000	-	-						
<b>Sub-total</b>		<b>50,000</b>	-	<b>50,000</b>	-	-						
<b>TOTAL</b>		<b>458,346</b>	<b>89,797</b>	<b>268,030</b>	<b>61,104</b>	<b>39,414</b>						

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Components		TOTAL	Year				Rate	Year				
			1	2	3	4		1	2	3	4	T
			6 m	12 m	12 m	6 m		6	12	12	6	36
<b>Output 3.1</b>												
Physical Infrastructure Implementation	UNOPS	1,455,534	-	722,164	733,370	-						
Improved Latrine construction support	Comm Con	749,250	-	299,700	299,700	149,850						
Audit		15,000	-	5,000	5,000	5,000	5,000	1	1	1		
AOC processing costs		6,120	-	2,520	3,600	-						
<b>TOTAL</b>		<b>2,225,904</b>	<b>-</b>	<b>1,029,384</b>	<b>1,041,670</b>	<b>154,850</b>						
<b>Output 3.2</b>												
Community Deve and Infrs Advisor	INGO	72,000	12,000	24,000	24,000	12,000	12,000	1	2	2	1	6
Travel		45,792	5,724	17,172	17,172	5,724	5,724	1	3	3	1	8
<b>Sub-total</b>		<b>117,792</b>	<b>17,724</b>	<b>41,172</b>	<b>41,172</b>	<b>17,724</b>						
Community Consultations	LICA	2,800	700	700	700	700	100	7	7	7	7	28
Urban Planner		23,346	3,891	7,782	7,782	3,891	1,297	3	6	6	3	18
Social Mobilizers		79,974	13,329	26,658	26,658	13,329	1,481	3	6	6	3	18
Field Engineer		93,384	7,782	31,128	31,128	23,346	1,297	3	12	12	9	36
Finance Officer		101,484	8,457	33,828	33,828	25,371	2,819	3	12	12	9	36
<b>Sub-total</b>		<b>300,988</b>	<b>34,159</b>	<b>100,096</b>	<b>100,096</b>	<b>66,637</b>						
<b>TOTAL</b>		<b>418,780</b>	<b>51,883</b>	<b>141,268</b>	<b>141,268</b>	<b>84,361</b>						
<b>Output 4.1 and 4.2</b>												
Climate Change Assessment Specialist	LICA	20,218	-	-	13,478	6,739	6,739	0	0	2	1	3
Travel		17,172	-	-	11,448	5,724	5,724	0	0	2	1	3
Field Monitoring, Comm & Coordination Officer	LICA	46,692	3,891	15,564	15,564	11,673	1,297	3	12	12	9	36
Measurement of Means of Verification, Inception Report		30,000	30,000	-	-	-						
Community Consultations		2,000	200	800	800	200	200	1	4	4	1	10
Project Steering Committee Meetings		3,000	500	1,000	1,000	500	500	1	2	2	1	6
Local Steering Committee Meetings		2,500	250	1,000	1,000	250	250	1	4	4	1	10
Seminar / Training / Workshops		47,500	5,000	20,000	17,500	5,000	2,500	2	8	7	2	19
International Workshops & Conferences		40,000	-	20,000	20,000	-	20,000	1	1			2
Studies Surveys, Reports		14,000	-	4,000	6,000	4,000	1,000	4	6	4	4	14
Visibility, Web Development, Advocacy		21,600	1,800	7,200	7,200	5,400	600	3	12	12	9	36
<b>TOTAL</b>		<b>244,682</b>	<b>41,641</b>	<b>69,564</b>	<b>93,990</b>	<b>39,486</b>						

Components		TOTAL	Year	Year	Year	Year		Rate	Year	Year	Year	Year	Year
			1	2	3	4			1	2	3	4	T
			6 m	12 m	12 m	6 m			6	12	12	6	36
PROJECT EXECUTION COST													
Team Leader		17,000	4,250	4,250	4,250	4,250							
National Staff													
Deputy Project Manager	LICA	167,220	13,935	55,740	55,740	41,805		4,645	3	12	12	9	36
Drivers	LICA	59,184	4,932	19,728	19,728	14,796		822	3	12	12	9	36
Travel Related to Execution													
Travel		12,000	3,000	3,000	3,000	3,000		3,000	1	1	1	1	4
Operations													
Vehicle Operations & Maintenance		36,000	3,000	12,000	12,000	9,000		1,000	3	12	12	9	36
Communication		3,600	300	1,200	1,200	900		100	3	12	12	9	36
Office Rent		50,400	4,200	16,800	16,800	12,600		1,400	3	12	12	9	36
Office Operations		12,600	1,050	4,200	4,200	3,150		350	3	12	12	9	36
Office Supplies and Stationery		5,589	466	1,863	1,863	1,397		155	3	12	12	9	36
Project Evaluation		30,000	-	4,000	4,000	22,000							
TOTAL		393,593	35,133	122,781	122,781	112,898							



Components		TOTAL	Year	Year	Year	Year	Rate	Year	Year	Year	Year	Year
			1	2	3	4		1	2	3	4	T
			6 m	12 m	12 m	6 m		6	12	12	6	36
Drainage system												
Khoroo 24												
River training to reduce flood impacts by communities		50,000	-	25,000	25,000	-	50,000		0.5	0.5		1
Khoroo 7 Drainage channels	7A1	177,620	-	-	177,620	-	535			332		332
		24,030	-	-	24,030	-	270			89		89
	7A2	158,895	-	-	158,895	-	535			297		297
		19,170	-	-	19,170	-	270			71		71
	7A3	233,795	-	-	233,795	-	535			437		437
	7A4	62,100	-	62,100	-	-	270		230			230
	7A5	178,200	-	178,200	-	-	270		660			660
	7A6	180,360	-	180,360	-	-	270		668			668
	7A7	90,720	-	90,720	-	-	270		336			336
Khoroo 9												
Dam at source of secondary stream to lead water into main river		73,500	-	-	73,500	-	150			490		490
Khoroo 9												
Drainage channels		159,750	-	159,750	-	-	150		1065			1,065
Bridge		5,000	-	5,000	-	-	5,000		1			
Design and Supervision required by Law (3%)		42,394		21,034	21,360							
Sub-total		1,455,534	-	722,164	733,370	-						
Resilient toilets												
Khoroo 7		22,500	-	9,000	9,000	4,500	450		20	20	10	50
Khoroo 24		144,000	-	57,600	57,600	28,800	450		128	128	64	320
Khoroo 25		123,750	-	49,500	49,500	24,750	450		110	110	55	275
Khoroo 9		33,750	-	13,500	13,500	6,750	450		30	30	15	75
Khoroo 12		117,000	-	46,800	46,800	23,400	450		104	104	52	260
Khoroo 13		168,750	-	67,500	67,500	33,750	450		150	150	75	375
Khoroo 16		139,500	-	55,800	55,800	27,900	450		124	124	62	310
		-	-	-	-	-						
Sub-total		749,250	-	299,700	299,700	149,850		-	666	666	333	1,665
Sub-total												
Sub-total		2,204,784	-	1,021,864	1,033,070	149,850						
AOC management costs		6,120	-	2,520	3,600	-	360		7	10	-	17
TOTAL		2,210,904	-	1,024,384	1,036,670	149,850						

Components		TOTAL	Year	Year	Year	Year	No.	Salary Base Rate	Rate	Year	Year	Year	Year	Year
			1	2	3	4				1	2	3	4	T
			6 m	12 m	12 m	6 m				6	12	12	6	36
Output 1.1														
Main Partner	AOC	50,000	10,000	40,000	-	-								
Workshops, Consultations		2,400	800	1,600	-	-			400	2	4			6
Report		2,000		2,000	-	-			1,000		2			2
Climate Change Assessment Specialist	IICA	20,218	6,739	13,478	-	-	1	6,200	6,739	1	2			3
Travel / Mission		17,172	5,724	11,448	-	-			5,724	1	2			3
Sub-total		91,790	23,263	68,526	-	-								
Output 1.2														
Main Partner	AOC	50,000	-	50,000	-	-								
Knowledge Management Specialist		10,000	5,000	5,000	-	-	1		5,000	1	1			
Sub-total		60,000	5,000	55,000	-	-								
Output 1.3														
Main Partner	AOC	250,000	-	250,000	-	-			35,714		7			
Sub-total		250,000	-	250,000	-	-								
TOTAL		401,790	28,263	373,526	-	-								
Output 2.1														
Main Partner	AOC	130,000	30,000	100,000	-	-								
Climate Change Assessment Specialist	IICA	20,218	6,739	13,478	-	-	1	6,200	6,739	1	2			3
Travel / Mission		17,172	5,724	11,448	-	-			5,724	1	2			3
Report		10,000	-	10,000	-	-			1,000		10			10
Workshops, Consultations, Action Plan		18,000	6,000	12,000	-	-			1,000	6	12			18
Sub-total		195,390	48,463	146,926	-	-								
Output 2.2														
Community Deve and Infrast Advisor	INGO	48,000	12,000	12,000	12,000	12,000	1		12,000	1	1	1	1	4
Travel / Mission		22,896	5,724	5,724	5,724	5,724			5,724	1	1	1	1	4
Urban Planner	IICA	23,346	3,891	7,782	7,782	3,891	1	1,100	1,297	3	6	6	3	18
Social Mobilizers		79,974	13,329	26,658	26,658	13,329	3	1,270	1,481	3	6	6	3	18
Report	INGO	10,000	-	10,000	-	-			1,000		10			10
Workshops, Consultations, Action Plan	INGO	13,440	3,840	3,840	3,840	1,920			320	12	12	12	6	42
Training	INGO	15,300	2,550	5,100	5,100	2,550			425	6	12	12	6	36
Sub-total		212,956	41,334	71,104	61,104	39,414								
Output 2.3														
Main Partner		50,000	-	50,000	-	-								
Sub-total		50,000	-	50,000	-	-								
TOTAL		458,346	89,797	268,030	61,104	39,414								
Output 3.1														
Physical Infrastructure Implementation	UNDP	1,455,534	-	722,164	733,370	-								
Improved Latrine construction support	Contract Cost	749,250	-	299,700	299,700	149,850								
Audit		15,000	-	5,000	5,000	5,000			5,000		1	1	1	
AOC processing costs		6,120	-	2,520	3,600	-								
TOTAL		2,225,904	-	1,029,384	1,041,670	154,850								
Output 3.2														
Community Deve and Infrast Advisor	INGO	72,000	12,000	24,000	24,000	12,000	1		12,000	1	2	2	1	6

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Travel / Mission		45,792	5,724	17,172	17,172	5,724			5,724	1	3	3	1	8
Sub-total		117,792	17,724	41,172	41,172	17,724								
Community Consultations		2,800	700	700	700	700			100	7	7	7	7	28
Urban Planner	LICA	23,346	3,891	7,782	7,782	3,891	1	1,100	1,297	3	6	6	3	18
Social Mobilizers	LICA	79,974	13,329	26,658	26,658	13,329	3	1,270	1,481	3	6	6	3	18
Field Engineer	LICA	93,384	7,782	31,128	31,128	23,346	2	1,100	1,297	3	12	12	9	36
Finance Officer	ONRO/LICA	101,484	8,457	33,828	33,828	25,371	1	2,500	2,819	3	12	12	9	36
Sub-total		300,988	34,159	100,096	100,096	66,637								
TOTAL		418,780	51,883	141,268	141,268	84,361								

#### Output 4.1 and 4.2

Climate Change Assessment Specialist	LICA	20,218	-	-	13,478	6,739	1	6,200	6,739	0	0	2	1	3
Travel / Mission		17,172	-	-	11,448	5,724			5,724	0	0	2	1	3
Field Monitoring, Comm & Coordination Officer	LICA	46,692	3,891	15,564	15,564	11,673	1	1,100	1,297	3	12	12	9	36
Measurement of Means of Verification, Inception Report		30,000	30,000	-	-	-								
Community Consultations		2,000	200	800	800	200			200	1	4	4	1	10
Project Steering Committee Meetings		3,000	500	1,000	1,000	500			500	1	2	2	1	6
Local Steering Committee Meetings		2,500	250	1,000	1,000	250			250	1	4	4	1	10
Seminar / Training / Workshops		47,500	5,000	20,000	17,500	5,000			2,500	2	8	7	2	19
International Workshops & Conferences		40,000	-	20,000	20,000	-			20,000		1	1		2
Studies Surveys, Reports		14,000	-	4,000	6,000	4,000			1,000		4	6	4	14
Visibility, Web Development, Advocacy		21,600	1,800	7,200	7,200	5,400			600	3	12	12	9	36
TOTAL		244,682	41,641	69,564	93,990	39,486								

#### PROJECT EXECUTION COST

Team Leader		17,000	4,250	4,250	4,250	4,250	1		4,250	1	1	1	1	
National Staff														
Deputy Project Manager	ONRO/LICA	167,220	13,935	55,740	55,740	41,805	1	4,200	4,645	3	12	12	9	36
Drivers	LICA	59,184	4,932	19,728	19,728	14,796	2	660	822	3	12	12	9	36
Travel Related to Execution														
Travel / Mission		12,000	3,000	3,000	3,000	3,000	1		3,000	1	1	1	1	4
Operations														
Vehicle Operations & Maintenance		36,000	3,000	12,000	12,000	9,000			1,000	3	12	12	9	36
Communication		3,600	300	1,200	1,200	900			100	3	12	12	9	36
Office Rent		50,400	4,200	16,800	16,800	12,600			1,400	3	12	12	9	36
Office Operations		12,600	1,050	4,200	4,200	3,150			350	3	12	12	9	36
Office Supplies and Stationery		5,589	466	1,863	1,863	1,397			155	3	12	12	9	36
Project Evaluation		30,000	-	4,000	4,000	22,000								
TOTAL		393,593	35,133	122,781	122,781	112,888								

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**Table 22** Resilient Flood protection and drainage and resilient latrines

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**Resilient toilets**

Khoroo	Population	HHs	Percent	No	Actual	Rate	Cost			PP
7	20128	5510	1%	55	50	450	22,500	3.7	183	123
24	13689	4040	8%	323	320	450	144,000	3.4	1,084	133
25	13678	3488	8%	279	275	450	123,750	3.9	1,078	115
9	13701	3785	2%	76	75	450	33,750	3.6	271	124
12	7162	2182	12%	262	260	450	117,000	3.3	853	137
13	9136	2522	15%	378	375	450	168,750	3.6	1,358	124
16	11945	3127	10%	313	310	450	139,500	3.8	1,184	118
	<b>89,439</b>	<b>24,654</b>	<b>56%</b>	<b>1,686</b>	<b>1,665</b>		<b>749,250</b>			

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Drainage system																		
Khoroo 24																		
River training to reduce flood impacts by communities		50,000	-	25,000	25,000	-			50,000		0.5	0.5		1				
Khoroo 7 Drainage channels	7A1	177,620	-	-	177,620	-			535			332		332				
		24,030	-	-	24,030	-			270			89		89				
		158,895	-	-	158,895	-			535			297		297				
	7A2	19,170	-	-	19,170	-			270			71		71				
		7A3	233,795	-	-	233,795	-			535			437		437			
	7A4	62,100	-	62,100	-	-			270		230			230				
	7A5	178,200	-	178,200	-	-			270		660			660				
	7A6	180,360	-	180,360	-	-			270		668			668				
7A7	90,720	-	90,720	-	-			270		336			336					
Khoroo 9																		
Dam at source of secondary stream to lead water into main river		73,500	-	-	73,500	-			150			490		490				
Khoroo 9																		
Drainage channels		159,750	-	159,750	-	-			150		1065			1,065				
Bridge		5,000	-	5,000	-	-			5,000		1							
Design and Supervision required by Law (3%)		42,394		21,034	21,360													
Sub-total		1,455,534	-	722,164	733,370	-												
Resilient toilets																		
Khoroo 7		22,500	-	9,000	9,000	4,500			450		20	20	10	50	Khoroo 7	222	101.35	
Khoroo 24		144,000	-	57,600	57,600	28,800			450		128	128	64	320	Khoroo 24	1101	130.79	
Khoroo 25		123,750	-	49,500	49,500	24,750			450		110	110	55	275	Khoroo 25	1098	112.70	
Khoroo 9		33,750	-	13,500	13,500	6,750			450		30	30	15	75	Khoroo 9	290	116.38	
Khoroo 12		117,000	-	46,800	46,800	23,400			450		104	104	52	260	Khoroo 12	1074	108.94	
Khoroo 13		168,750	-	67,500	67,500	33,750			450		150	150	75	375	Khoroo 13	1377	122.55	
Khoroo 16		139,500	-	55,800	55,800	27,900			450		124	124	62	310	Khoroo 16	955.00	146.07	
		-		-	-	-												
Sub-total		749,250	-	299,700	299,700	149,850			-		666	666	333	1,665				
Sub-total		2,204,784	-	1,021,864	1,033,070	149,850												
AOC management costs		6,120	-	2,520	3,600	-			360		7	10	-	17				
TOTAL		2,210,904	-	1,024,384	1,036,670	149,850												

Table 23 M&E budget

Type of M & E Activity	Row	Total	1	2	3	4
Measurements of means of verification (baseline assessment and M & E plans)	57	30,000	30,000	-	-	-
Direct Project Monitoring and Quality Assurance including progress and financial reporting, project revisions, technical assistance and risk management	56	46,692	3,891	15,564	15,564	11,673
Independent terminal evaluation	79	30,000	-	4,000	4,000	22,000
	PCM	10,000	1,500	2,800	3,900	1,800
Project management committee meetings	59	5,500	750	2,000	2,000	750
Travel	71	12,000	3,000	3,000	3,000	3,000
Total		134,192	39,141	27,364	28,464	39,223



#### **Output 1.1**

##### **One (1) Ulaanbaatar northern Ger-Area (including the three (3) target districts) Territorial Land Use Plan and legal framework recommendations with specific focus on flood risk reduction - building on 1.2**

- a. An agreement of cooperation (AOC) will be signed with an external partner to prepare land use plans in three target districts for which \$50,000 has been budgeted as a lump sum.
- b. Consultations at the community level and workshops will be organized during the preparation of the plan and presentation of the findings. \$2,400 has been budgeted for this.
- c. \$2,000 has been budgeted for the preparation of three draft and final reports.
- d. Three person-months (over 18 months) of technical and supervisory support by an International Climate Change Assessment Specialist is budgeted at \$6,739 per month. Travel and DSA (14 days for each mission) for the Consultant is budgeted at \$5,724 per mission for three missions during this period. The total budget is \$20,218 for Consultant fees for three months and \$17,172 for three missions.

#### **Output 1.2**

##### **Simulation model for forecasting future impacts of climate change and flooding in UB city & Ger-areas established**

- a. An agreement of cooperation (AOC) will be signed with an external partner to prepare a simulation model for which \$50,000 has been budgeted as a lump sum.
- b. The Knowledge Management Specialist will supervise the preparation of the model. A lump sum of \$10,000 has been provided for the inputs from the Specialist.
- b. Technical supervisory support by Climate Change Assessment Specialist is budgeted in Output 1.1.

#### **Output 1.3**

##### **Seven (7) Detailed Ger-khoroo level Land Use Plans with a specific focus on flood risk reduction and building resilience of the most vulnerable areas and people**

- a. An agreement of cooperation (AOC) will be signed with an external partner to prepare seven land use plans for which \$250,000 has been budgeted as a lump sum.
- b. Technical supervisory support by Climate Change Assessment Specialist is budgeted in Output 1.1.

#### **Output 2.1**

##### **Seven (7) Khoroo-level floods resilience action plans to implement the interventions under component 3; a series of District, Khoroo and community level consultations / workshops introducing the People's Process and Community Based Disaster Risk Reduction approach, focused on building social cohesion and consensus on community level implementation of interventions under component 3.**

- a. An agreement of cooperation (AOC) will be signed with an external partner to prepare seven flood resilience action plans for which \$130,000 has been budgeted as a lump sum.
- b. Consultations at the community level and workshops will be organized during the preparation of the plan and presentation of the findings. \$18,000 has been budgeted for this.
- c. \$10,000 has been budgeted for the preparation of seven draft and final reports.
- d. Three person-months (over 18 months) of technical and supervisory support by an International Climate Change Assessment Specialist is budgeted at \$6,739 per month. Travel and DSA (14 days for each mission) for the Consultant is budgeted at \$5,724 per mission for three missions during this period. The total budget is \$20,218 for Consultant fees for three months and \$17,172 for three missions.

#### **Output 2.2**

##### **Khoroo / Community level interventions operation and maintenance (and potential risks mitigation) awareness campaigns and training to support the sustainable implementation of interventions under component 3.**

a. An INGO will be contracted to manage this component for which following provisions have been made in the budget.

- One person-month of advisor support every year (total 4 person-months over the project period) by one international Community and Infrastructure Development Advisor is budgeted at \$12,000 per month. Travel and DSA (14 days for each mission) for the Consultant is budgeted at \$5,724 per mission for one mission per year (total four missions). The total budget is \$48,000 for Consultant fees for four months and \$22,896 for three missions.
- Training at community level (community organizations, local officials) is budgeted at \$15,300 for the project period. Training will be provided to all the Community Development Councils (12 to 15) in the 7 Khoros on community organization, construction management, management of funds, monitoring, operations & maintenance and preparation of progress reports.
- Community consultations and workshops to prepare community action plans to implement the physical infrastructure activities proposed in Output 3.1 is budgeted at \$13,440. Each Community Development Council (12 to 15) in 7 Khoros will prepare an annual plan, monitor and review progress, and update their annual plan every year.
- \$10,000 is budgeted to prepare quarterly progress reports to be submitted to the project management.
- b. One national Urban Planner (part-time, 18 person-months) and three national Social Mobilisers (part-time, 54 person-months) will be recruited through a LICA contract to provide field support. The monthly salary is budgeted at \$1,297 per month for Urban Planner (total \$23,346) and \$1,481 per month for each Social Mobilizer (total \$79,974).

### **Output 2.3**

#### **Technical studies – Engineering and hydrological - required to implement the interventions under component 3.**

- a. An agreement of cooperation (AOC) will be signed with an external partner to prepare engineering and hydrological studies for which \$50,000 has been budgeted as a lump sum.
- b. Technical supervisory support by Climate Change Assessment Specialist is budgeted in Output 1.1.

### **Output 3.1**

#### **Physical assets developed or strengthened in response to climate change related flood impacts as prioritized by Khoros.**

- **Flood retention wall and drainage infrastructure**
- **Resilient sanitation delivery**

a. Following physical infrastructure construction activities are proposed in the budget:

i. Following drainage construction activities will be contracted through UNOPS:

- Khoroo 24
    - river training to reduce flood impact \$50,000
  - Khoroo 7
    - package 1 421m \$201,650
    - package 2 368m \$178,065
    - package 3 437m \$233,795
    - package 4 230m \$ 62,100
    - package 5 660m \$178,200
    - package 6 668m \$180,360
    - package 7 336m \$ 90,720
  - Khoroo 9
    - a dam at the source of a secondary stream to lead water into the main river
- \$73,500**
- drainage channels 1,065m, cost \$159,750
  - one bridge \$5,000
- The total budget for this component is \$1,455,534.

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ii. Following units of resilient toilets will be constructed through Community Contracting:

- Khoroo 7	50 units
- Khoroo 24	320 units
- Khoroo 25	275 units
- Khoroo 9	75 units
- Khoroo 12	260 units
- Khoroo 13	375 units
- Khoroo 16	310 units
<b>TOTAL</b>	<b>1,665 units</b>

- The total budget for this component is \$749,250.

Upon

#### M&E

Type of M & E Activity	Row	Total	1	2	3	4
Measurements of means of verification (baseline assessment and M & E plans)	57	30,000	30,000	-	-	-
Direct Project Monitoring and Quality Assurance including progress and financial reporting, project revisions, technical assistance and risk management	56	46,692	7,782	15,564	15,564	7,782
Independent terminal evaluation	79	30,000	-	4,000	4,000	22,000
	PCM	10,000	1,500	2,800	3,900	1,800
Project management committee meetings	59	5,500	750	2,000	2,000	750
Travel	71	12,000	3,000	3,000	3,000	3,000
Total		134,192	43,032	27,364	28,464	35,332

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- b. approval of the project design by the respective government department, it is officially stipulated that 3% of the project cost is allocated for supervision and completion certification.
- c. Annual audit is budget at \$5,000 for which a qualified national auditor firm will be recruited.
- d. It is estimated that there will be 17 AOCs to be signed with UNOPS and Community Development Councils. \$360 has been budgeted as processing cost for each AOC.

### **Output 3.2**

#### **Management and operations design & supervision of assets / physical infrastructure – procured as consulting services.**

- a. An INGO will be contracted to manage this component for which following provisions have been made in the budget.
  - One person-month of advisor support every year (total 4 person-months over the project period) by one international Community and Infrastructure Development Advisor is budget at \$12,000 per month. Travel and DSA (14 days for each mission) for the Consultant is budgeted at \$5,724 per mission for one mission per year (total four missions). The total budget is \$48,000 for Consultant fees for four months and \$22,896 for three missions.
  - \$2,800 is allocated for Community Consultations. Additional budget for community consultations and workshops to prepare community action plans to implement the physical infrastructure activities is included in Output 2.2.
  - Training at community level (community organizations, local officials) is included in Output 2.2.
  - Budget for reporting is included in Output 2.2.
- b. Following national staff will be recruited through LICA contracts to provide field support:
  - Full time (two Field Engineer, one Finance Officer)
    - Two Field Engineers (72 person-months) will be recruited through LICA contracts to provide field support. The monthly salary is budgeted at \$1,297 per month (total \$93,384).
    - One Finance (36 person-months) will be recruited through UNDP or LICA contract to provide field support. The monthly salary is budgeted at \$2,819 per month (total \$101,484).
  - Part-time (one Urban Planner, three Social Mobilisers)
    - One Urban Planner (18 person-months) and three Finance Officer (54 person-months) will be recruited through LICA contracts to provide field support. The monthly salary is budgeted at \$1,297 per month for Urban Planner (total \$23,346) and \$1,481 per month for each Social Mobilizer (total \$79,974).

### **Output 4.1**

#### **Lessons learned and best practices regarding flood-resilient urban community development are generated, captured and distributed to other Districts and khoroo communities, civil society, and policy-makers in government appropriate mechanisms.**

### **Output 4.2**

#### **Workshops and training are organised targeting city- and district government officials with a focus on replication of processes, land use plans and interventions and to discuss how lessons can be integrated into existing strategies and plans**

- a. Three person-months (over 18 months) of technical and supervisory support by an International Climate Change Assessment Specialist is budgeted at \$6,739 per month. Travel and DSA (14 days for each mission) for the Consultant is budgeted at \$5,724 per mission for three missions during this period. The total budget is \$20,218 for Consultant fees for three months and \$17,172 for three missions.
- b. One national Field Monitoring, Communication and Coordination Officer will be recruited for 36 person-months for which \$46,692 has been budgeted (\$1,297 per month).
- c. A lump sum of \$30,000 is allocated for measurement of Means of Verification and preparation of Inception Report

d. Project Steering Committee will be scheduled every six months, Local Steering Committee (at Khoroo level) will be scheduled every four months. Likewise, community consultations will be scheduled every four months. \$7,500 has been budgeted to cover expenses for these meetings.

e. National level seminars/workshops/consultations will be organized to discuss project experience and findings and seek professional inputs. \$47,500 has been budgeted for this.

f. A budget of \$20,000 in year 2 and 3 (total \$40,000) has been allocated to cover costs for participation in climate change related international conference/workshop by senior government officials.

g. Production of various studies, survey and reports is budget at \$14,000 for the project period.

h. Production of various project visibility and advocacy material and development of web page and maintenance is budgeted at \$21,600.

## H. Disbursement schedule

**Table 24** Disbursement schedule

	Year 1	Year 2	Year 3	Year 4
	1 <sup>st</sup> disbursement – upon agreement signature	2 <sup>nd</sup> disbursement – One Year after project start	3 <sup>rd</sup> disbursement – Two years after project start	4 <sup>th</sup> disbursement – Two years after project start
		<ul style="list-style-type: none"> <li>▪ Upon First Annual Report</li> <li>▪ Upon financial report indicating disbursement of at least 70% of funds</li> </ul>	<ul style="list-style-type: none"> <li>▪ Upon Second Annual Report</li> <li>▪ Upon financial report indicating disbursement of at least 70% of funds</li> </ul>	<ul style="list-style-type: none"> <li>▪ Upon Third Annual Report</li> <li>▪ Upon financial report indicating disbursement of at least 70% of funds</li> </ul>
<b>Milestone</b>	<p>Milestones (by end of year)</p> <ul style="list-style-type: none"> <li>- Inception workshop report</li> <li>- 1 risk reduction action or strategy introduced at local level (assessment and planning tools developed)</li> <li>- 1 demo project for infrastructure/natural assets developed</li> <li>- Website established</li> <li>- Advocacy materials produced</li> <li>- Steering Committee</li> </ul>	<p>Milestones (by end of year)</p> <ul style="list-style-type: none"> <li>- X local authorities integrate resilience in local planning schemes</li> <li>- X (new) khoroo-wide assessments conducted and x assessments updated</li> <li>- 6 khoroo-wide hazard maps</li> <li>- khoroo-wide climate change action plans for 6 participating khoroo.</li> <li>- X urban planners/resilience officers established.</li> <li>- Community-based climate vulnerability assessments in 6 Ger communities</li> <li>- Community-level resilience, recovery and upgrading plans in 6 Ger-communities</li> <li>- Adaptation and risk reduction assessments and awareness activities for 3 (50%) targeted population groups.</li> <li>-10% of household and community livelihood strategies strengthened in relation to climate change impacts (X total).</li> <li>- 10% of infrastructure/ natural assets developed</li> <li>- Advocacy materials produced</li> <li>- Steering Committee</li> </ul>	<p>Milestones (by end of year)</p> <ul style="list-style-type: none"> <li>- Adaptation and risk reduction assessment and awareness activities for X targeted population groups.</li> <li>- x (50%) strengthened household and community livelihood strategies in relation to climate change impacts.</li> <li>- Advocacy materials produced</li> <li>- 50% of infrastructure/natural assets constructed / developed</li> <li>- Steering Committee</li> </ul>	<p>Milestones (by end of year)</p> <ul style="list-style-type: none"> <li>- Adaptation and risk reduction assessment and awareness activities for X targeted population groups.</li> <li>- x (50%) strengthened household and community livelihood strategies in relation to climate change impacts.</li> <li>- Advocacy materials produced</li> <li>- 50% of infrastructure/natural assets constructed / developed</li> <li>- Steering Committee</li> </ul>
<b>Schedule date</b>	October 2018 or Upon signing	June 2019	June 2020	June 2021

A. Project Funds (US\$)	-211,584	-1,881,773	-1,338,033	-318,111	-3,749,504
B. Programme Execution	-35,133	-122,781	-122,781	-112,898	393,593
C. Programme Cycle Mgt	-22,175	-170,126	-125,968	-37,861	356,130
(B+C) MIE Fee (US\$)	57,308	292,907	248,749	150,749	749,723
Total	-268,892	-2,174,679	-1,586,782	-468,871	4,499,224

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**PART IV: ENDORSE-  
MENT BY GOVERN-  
MENT AND CERTIFI-**

**CATION BY THE IMPLEMENTING ENTITY**

<u>Schedule date</u>	<u>October 2018 or upon sign- ing</u>	<u>Jun-19</u>	<u>Jun-20</u>	<u>Jun-21</u>	<u>TOTAL</u>
A. Project Funds (US\$)	<u>211,584</u>	<u>1,881,773</u>	<u>1,338,033</u>	<u>318,111</u>	<u>3,749,501</u>
B. Programme Execution	<u>35,133</u>	<u>122,781</u>	<u>122,781</u>	<u>112,898</u>	<u>393,593</u>
C. Programme Cycle Mgt	<u>21,937</u>	<u>168,195</u>	<u>124,562</u>	<u>37,446</u>	<u>352,141</u>
(B+C) MIE Fee (US\$)	<u>57,070</u>	<u>290,976</u>	<u>247,343</u>	<u>150,345</u>	<u>745,734</u>
-	<u>268,655</u>	<u>2,172,749</u>	<u>1,585,375</u>	<u>468,456</u>	<u>4,495,235</u>

## PART IV: ENDORSEMENT BY GOVERNMENT AND CERTIFICATION BY THE IMPLEMENTING ENTITY

### A. Record of endorsement on behalf of the government<sup>31</sup>

Dr. Batjargal Zamba Special Envoy for Climate Change National Focal Point UNFCCC, IPCC, GCF Ministry of Environment and Tourism of Mongolia Suite: 22-7G Amar Street, 8 <sup>th</sup> khoroo Ulaanbaatar - 14200 Tel: 976-7000 0743 Fax: 976-11-310743 e-mail: zbatjargal@mne.gov.mn	Date: January 12, 2018
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<sup>31</sup> Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

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**MINISTRY OF ENVIRONMENT,  
AND TOURISM**

**ENVIRONMENT AND CLIMATE FUND**

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Tel: (976-11) 310753, Fax: (976-11) 310743  
E-mail: contact@ncf.mn, <http://www.ncf.mn>

Date 2018.01.12 No 08

**To: The Adaptation Fund  
Board Secretariat** c/o Global  
Environment Facility Secretariat  
1818H Street, NW, MSN P-4-400  
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Email: [secretariate@adaptation-fund.org](mailto:secretariate@adaptation-fund.org)  
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**Subject: Endorsement of the project proposal: "Flood Resilience in  
Ulaanbaatar Ger Areas (FRUGA) - Adaptation through community-driven  
small-scale protective and basic-services interventions**

Dear Sir/Madam,

In my capacity as Designated Authority for the Adaptation Fund in Mongolia, I confirm that the above national project is in accordance with the government's national priorities in implementing adaptation activities to reduce the adverse impacts and risks posed by climate change and enhance resilience in Mongolia.

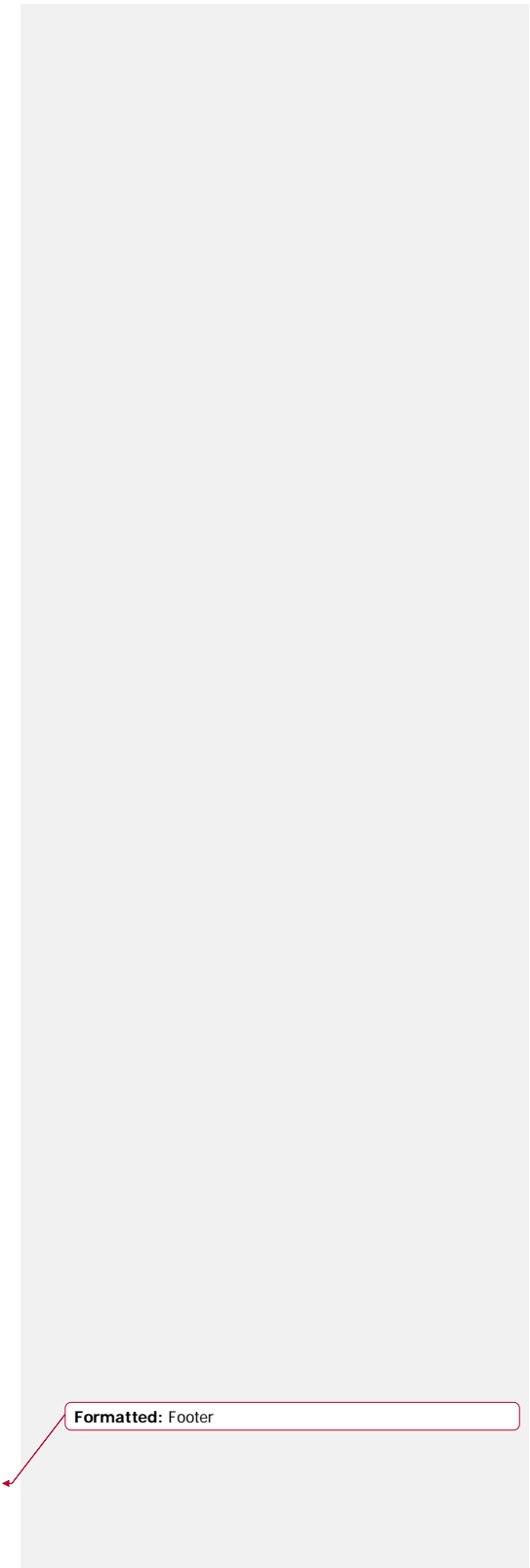
Accordingly, I am pleased to endorse the above project proposal for support from the Adaptation Fund. If approved, the project will be implemented by the United Nations Human Settlements Programme (UN-Habitat) and executed by the Ministry of Environment and Tourism, the Municipality of Ulaanbaatar (MUB) and Ger-Communities within Songinokhairkhan, Bayanzurkh and Sukhbaatar Districts of Ulaanbaatar via a Programme Execution Unit set up with United Nations Office for Project Services (UNOPS). Several other line ministries/departments, district and sub-district (khoroo) authorities and non-governmental organizations will also be involved in the implementation of this project.

The project proposal builds on the national, municipal and district level strategies and priorities which seek to address key and urgent climate change adaptation requirements being faced by vulnerable Ger-communities in Ulaanbaatar. To this end, following consultation with key stakeholders, a series of in-depth community consultations were conducted in 3 priority districts and 7 sub-district (khoroo) communities, to support the project development process. These most-vulnerable communities in high-risk areas were identified in collaboration with the Mayor's office and municipal authorities; in support of the urgent thematic priorities identified in close consultation with Ministry of Environment and Tourism and key national government entities.

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In addition to being fully aligned with the Ulaanbaatar 2020 Master Plan and Development Directions for 2030 as well as the Ulaanbaatar Floods Risk Management Strategy 2015; the project proposal aims to support the implementation of commitments in the Mongolia National Action Programme on Climate Change (Phase II - 2017-2021); the National Green Development Policy (2014-2030) and the Intended Nationally Determined Contributions (INDC) to the 2015 Agreement under the United Nations Framework Convention on Climate Change (UNFCCC). Furthermore, the project would be able to demonstrate concrete adaptation measures in line with the second phase of the National Adaptation Plan for Climate Change (NAP) from 2017-2021 focusing on the implementation of climate change adaptation measures.

In this regards, this project proposal is fully endorsed by the DA of Mongolia for the AF.

Yours sincerely,



Dr. Batjargal Zamba

Special Envoy for Climate Change  
National Focal Point for the UNFCCC & DA for the Adaptation Fund  
Ministry of Environment and Tourism of Mongolia



**MINISTRY OF ENVIRONMENT,  
AND TOURISM**

**ENVIRONMENT AND CLIMATE FUND**

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Tel: (976-11) 310753, Fax: (976-11) 310743  
E-mail: contact@ncf.mn, http://www.ncf.mn

Date 2018.01.12 No 08

**To: The Adaptation Fund  
Board Secretariat** c/o Global  
Environment Facility Secretariat  
1818H Street, NW, MSN P-4-400  
Washington DC, United State of  
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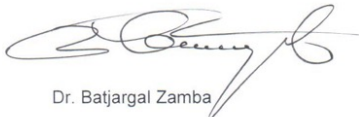
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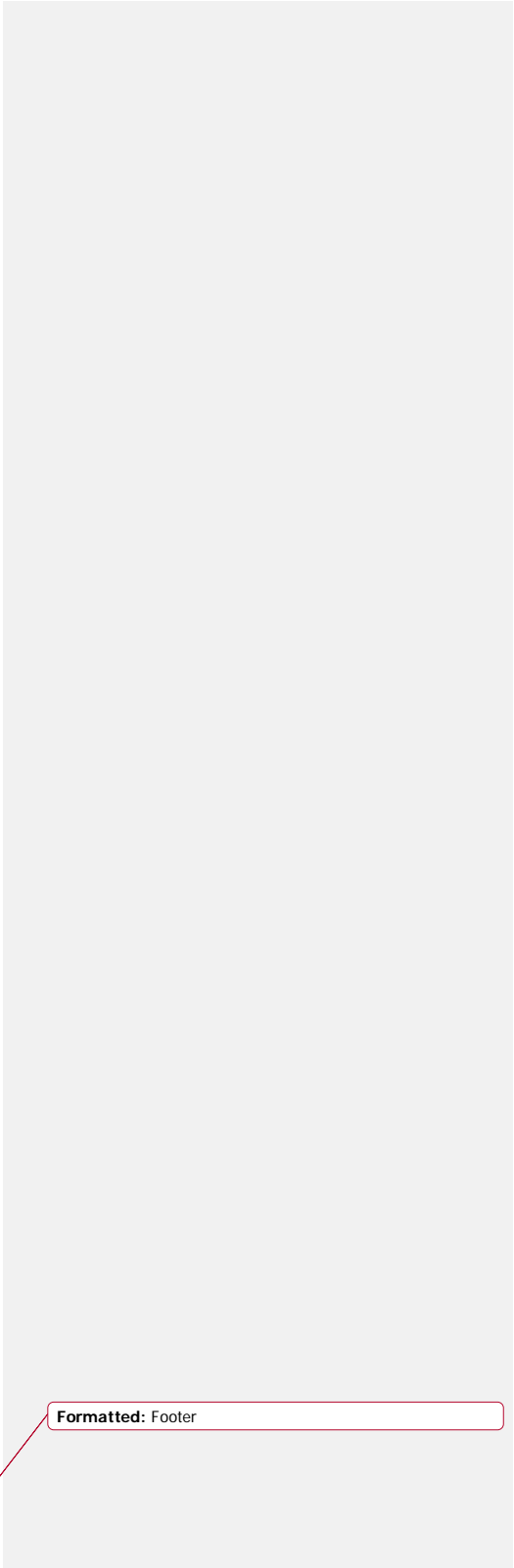
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Yours sincerely,



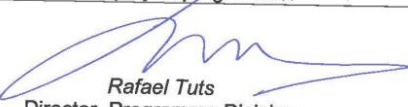
Dr. Batjargal Zamba

Special Envoy for Climate Change  
National Focal Point for the UNFCCC & DA for the Adaptation Fund  
Ministry of Environment and Tourism of Mongolia



**B. Implementing Entity certification**

## B. Implementing Entity certification

<p>I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans including Mongolia's National Development Strategy, Second National Communication under the UNFCCC, Mongolia National Action Programme on Climate Change (Phase II - 2017-2021), National Climate Risk Management Strategy, National Green Development Policy and Action Plan (2015), Ulaanbaatar Master Plan 2030, and the Flood Risk Management Strategy of Ulaanbaatar City, and subject to the approval by the Adaptation Fund Board, <u>commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund</u> and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.</p>	
<p> <b>Rafael Tuts</b> Director, Programme Division UN-Habitat</p>	
Date: 12 January 2018	Tel.: +254-20-762-3726 Email: raf.tuts@unhabitat.org
Project Contact Person: Nadine Waheed, Human Settlements Officer, Regional Office for Asia and the Pacific	
Tel.: +81-92-724-7121 Email: Nadine.Waheed@unhabitat.org; Nadine.Waheed@un.org	

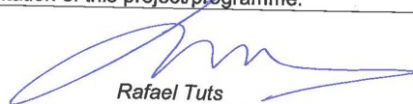
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## Annex 1

### B. Implementing Entity certification

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Rafael Tuts  
Director, Programme Division  
UN-Habitat

Date: 12 January 2018

Tel.: +254-20-762-3726

Email: raf.tuts@unhabitat.org

Project Contact Person: Nadine Waheed, Human Settlements Officer,  
Regional Office for Asia and the Pacific

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## Annex 1 Results of the three-rounds of in-depth community consultations and Focus Group Discussions

### Round 1: Rapid climate change vulnerability assessments and needs assessment

Table 24a: List of district office governors and officials surveyed during Rapid Assessments

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No.	District	Khoroo	Position	Name	Contact
1	Sukhbaatar	12	Khoroo Governor	Dolgormaa	96653039
			Social worker	Amarjargal	96002645
			Community health center	Conver	96653039
2		13	Khoroo Governor	Bayar-Erdenee	96002645
			Manager	Tuvshin	91887211
			Community health center	Sankol	11358005
3		16	Khoroo Governor	Erdenesukh	99114391
			Manager	Khajidmaa	88067766
			Community health center	Mandam	11358006
4	Bayanzurkh	9	Khoroo Governor	Gankhuyag	99242399
			Manager	Tuul	99249666
			Community health center	Enkh-enerel	93230393
5	Songinokhairkhan	7	Khoroo Governor	Oyunchimeg	99985044
			Manager	Nyambayar	99828898
			2 <sup>th</sup> kheseg leader	Uranchimeg	95117443
			7 <sup>th</sup> kheseg leader	Badamkhand	89827779
			9 <sup>th</sup> kheseg leader	Dorjmaa	88552710
			10 <sup>th</sup> kheseg leader	Munkhtsetseg	99173749
			11 <sup>th</sup> kheseg leader	Altangerel	88246226
6		24	Khoroo Governor	Tumurbaatar	93130024
			Manager	Tsend-Ayush	88071143
			Community council representative	Myagmardorj	88896952
7		25	Khoroo Governor	Batchuluun	99196740
			Manager	Sevjidsuren	89918808
			Social worker	Otgonchimeg	88405861



# RAPID SETTLEMENT ASSETS SURVEY – Covering all target communities

BUILDING URBAN CLIMATE RESILIENCE

UN-HABITAT - ADAPTATION FUND

BAYANKHOSHUU SUB-CENTER

Songinokhairkhan District

## 1. Beneficiaries

No.	Municipality/ District	Songinokhairkhan		
	Name of community	7 Khoroo	24 Khoroo	25 Khoroo
1	Total population	20,128	13,689	13,680
2	Number of Female	10,259	7,145	7,082
3	# of < age 14	6,241	931	=
4	# of age 15-24	2,752	936	=
5	# of age 25-60	9,931	445	=
6	# of > age 60	775	706	=
7	# of disabled population	254	45	=
8	# of indigenous people	=	=	=
9	# of immigrants	=	689	342
10	# of informal people	=	690	=
11	# of households	5,510	4,040	3,481
12	Poverty rate (%)	2,645 households (48%)	1,616 households (40%)	1,044 households (30%)
13	How many people will benefit from the following proposed interventions in the community:			
	Physical/structural interventions (specify what is relevant):	75%	50%	10%
	- Drainage canals in most vulnerable areas			
	- Improved (eco) pit latrines			
	- Construction of fence around dams			

	<u>Tree plantation (through involvement of school children)</u>			
	<u>Trainings</u>	<u>50%</u>	<u>60%</u>	<u>25%</u>
	<u>Communication</u>	<u>90%</u>	<u>70%</u>	<u>30%</u>
	<u>Information</u>	<u>80%</u>	<u>60%</u>	<u>40%</u>
14	<u>Are there early warning systems in place covering different types of hazards (e.g. floods, cyclones, storms, droughts, etc.)</u>	<u>No</u>	<u>No</u>	<u>No</u>
15	<u>Existence of drainage system</u>	<u>1 narrow drainage canal exists near Mon Laa but insufficient because it overflows due to blockage by garbage</u>	<u>No</u>	<u>No</u>
16	<u>Existence of sewage system</u>	<u>No</u>	<u>No</u>	<u>No</u>
17	<u>Existence of different groups (ethnic, women, elderly, disabled, youth) who are treated differently. If so, how?</u>	<u>No</u>	<u>Some households have religious and political difference</u>	<u>No</u>
		<u>Elderly receive pension and disabled receive monthly allowance (equivalent to minimum wage)</u>		
18	<u>Participation of women in decision-making process. If no, why?</u>	<u>High participation</u>	<u>Moderate participation</u>	<u>High participation</u>
19	<u>Main livelihoods / sources of income in community?</u>		<u>- garbage collecting</u>	<u>- kitchen gardening</u>
		<u>- seasonal part time jobs</u>		<u>- some have household level production (felt making, sewing, etc).</u>
		<u>- government allowance (child support)</u> <u>- government and private sector employment; running small business (shops, restaurants, repair and maintenance services)</u>		
20	<u>Main environmental problems (Choose Top 3)</u> <u>1) River flooding</u> <u>2) Surface Flooding (rainwater)</u> <u>3) River Bank Erosion (soil disappearing)</u> <u>4) Inland erosion</u>	<u>2. waste water from other neighboring areas and ceramic industry waste water is collected in this khoroo</u>  <u>5. air pollution during winter from burning coal for heating</u>	<u>2. on the west side of this khoroo river valleys are common so ground water comes up and overflows flooding the area with garbage</u>  <u>5. air pollution during winter from burning coal for heating</u>	<u>- the khoroo is relatively new settlement so no particular problems reported yet</u>  <u>5. air pollution during winter from burning coal for heating</u>

<u>5) Pollution (dirty air, dirty water, dirty soil)</u> <u>6) Rubbish (waste management)</u> <u>7) Drainage (e.g. blocked drains)</u> <u>8) Sanitation (problems with toilet)</u> <u>9) Decline in forest areas</u> <u>10) Plant Disease</u> <u>11) Insects or bugs (flies, mosquitoes)</u> <u>12) agriculture sustainability</u>	<u>6. due to narrow flood canal garbage floats into streets and household plots</u>  <u>8. frozen pit latrine melts and overflows on to the streets and plots in spring/summer times affecting the environment</u>	<u>8. on the east side of the khoroo the area is rocky mountainous so it is difficult to dig beneath 1.5m for pit latrines</u> <u>- due to strong winds and storms ger houses and fences collapse</u>	
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## 2. Climate change - impacts, barriers for adaptation and possible interventions analysis

<u>No.</u>	<u>Municipality/ District</u>	<u>Name of community</u>	<u>Most problematic climatic hazard</u>	<u>Effects on the community</u>	<u>Factors stopping your community from coping with current impacts</u>	<u>Possible resilience building interventions identified</u>
<u>1</u>	<u>Ulaanbaatar</u>	<u>7 khoroo</u>	<u>- unclean environment: garbage floats due to flood water</u> <u>- air pollution during during winter from burning coal for heating</u> <u>- cannot dig pit latrines below 1.5 meter therefore overflow during spring and during flooding</u> <u>- people feel that the weather is getting warmer and air quality is too dry</u> <u>- flood water coming from khoroo 24 (and also khoroo 25 and 8) create water logging in this khoroo.</u>	<u>- toilet waste and grey water freezes during the winter then melts during spring leading to pollution</u> <u>- air pollution during winter is a perennial hazard</u> <u>- streets and roads are not pedestrian friendly</u>	<u>- financial difficulty for khoroo</u> <u>- residents lack knowledge to fix canals</u> <u>- dependency on coal for cooking and heating particularly during winter</u> <u>- poor or non existent drainage</u> <u>- lack of central sewerage system to dispose grey water and for connecting latrines</u> <u>- lack of awareness and empowerment to respond to risks</u>	<u>- introduction of improved pit latrines and shared latrines</u> <u>- to plant trees around the dam area and in community plots</u> <u>- use proper chemical for waste disposal</u> <u>- community awareness about waste disposal, hand washing, disaster preparedness, etc.</u>

			<u>- waste from ceramic industry in khoroo 8 also comes to this khoroo</u>			
<u>2</u>		<u>24 khoroo</u>	<u>- air pollution during winter from burning coal for heating</u> <u>- strong wind and storm</u> <u>- soil pollution due to lack of waste disposal</u> <u>- dry dusty environment</u> <u>- warmer weather</u>	<u>- toilet waste and grey water freezes during the winter then melts during spring leading to pollution</u> <u>- diarrhea and other infectious disease are caused by soil contamination</u> <u>- children and elderlies suffer from heatstroke</u> <u>- ger houses, fences and private properties collapse due to strong wind and wind-storm endangering people's lives</u>	<u>- dependency on coal for cooking and heating particularly during winter</u> <u>- poor or non existent drainage</u> <u>- lack of central sewerage system to dispose grey water and for connecting latrines</u> <u>- lack of awareness and empowerment to respond to risks</u>	<u>- plant trees and create green spaces</u> <u>- plant trees in dusty streets and in individual compounds</u> <u>- build waste recycling facility</u> <u>- promote use of improved toilet</u> <u>(ADB project has built one community improved toilet for 20 household.)</u>
<u>3</u>		<u>25 khoroo</u>	<u>Few</u>	<u>Few</u>	<u>=</u>	<u>=</u>

### 3. Strengthened institutional capacity

<u>No.</u>	<u>Municipality/ District</u>			
	<u>Name of community</u>	<u>7 Khoroo</u>	<u>24 Khoroo</u>	<u>25 Khoroo</u>
<u>1</u>	<u>Is there a community plan for hazard risk reduction/ climate change adaptation?</u>	<u>No</u>	<u>In process</u>	<u>No</u>

<u>2</u>	<u>Have there been any training on risk reduction and resilience?</u>	<u>Certain amount of information is given by the khoroo but insufficient and ineffective</u>	<u>- training is provided once a year by the district office.</u> <u>- State Emergency Department provided 2 training sessions in spring and fall seasons (annually)</u>	<u>Training provided by khoroo for over 400 residents</u>
<u>3</u>	<u>Is there a municipal CC and resilience plan incorporated into planning schemes?</u>	<u>Not clearly incorporated</u>	<u>Yes</u>	<u>Unknown</u>
<u>4</u>	<u>Is there any community level awareness of exposure to at least one key hazard?</u>	<u>Very few residents have information and conscience</u>	<u>Not likely</u>	<u>Yes</u>

#### 4. Health issues related to climate change

<u>No.</u>	<u>Municipality/ District</u>			
	<u>Name of community</u>	<u>7 Khoroo</u>	<u>24 Khoroo</u>	<u>25 Khoroo</u>
<u>1</u>	<u># of households to report an occupant with diarrhea in last 3 months in this settlement</u>	<u>- 50% of children aged 0-5 years suffers from diarrhea resulting from lack of proper hygiene practices</u> <u>- respiratory infectious disease is increasing due to air pollution</u>	<u>- heatstroke particularly for children and elders as there are no shades in the area</u> <u>- children suffers from diarrhea resulting from lack of proper hygiene practices</u>	<u>- not many reports</u>
<u>2</u>	<u># of households to report an occupant with malaria/ dengue last year</u>	<u>Respiratory diseases due to allergic reactions</u>	<u>Due to sever dryness, skin disease allergy asthma and throat disease</u>	<u>=</u>
<u>3</u>	<u>Existence of drainage issues that may give rise to mosquito borne diseases</u>	<u>No</u>	<u>Few reports of mosquito and mites bites.</u>	<u>=</u>
<u>4</u>	<u>Main health problems/ issues</u>	<u>- cardiovascular disease and hypertension</u> <u>- malfunction of stomach, liver (for all ages)</u>	<u>- cardiovascular disease and blood pressure increase</u> <u>- heatstroke</u> <u>- lack of health care trainings</u>	<u>=</u>
		<u>- infections due to lack of awareness about hand washing (hand and mouth diseases)</u>		

		<u>- diarrhea, infectious disease, respiratory disease, chickenpox, allergic reactions</u>
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### 5. Urban development and housing

No.	Municipality/ District			
	Name of community	7 Khoroo	24 Khoroo	25 Khoroo
1	Is this community organised/built according to an urban plan? (or Is this settlement considered informal?)	Informal settlement No group	Informal settlement There is one Red Cross community group for disaster relief purpose	Informal settlement No group
2	# of dwellings with 'average' or 'poor' quality walls	Mostly average (>5500)	Mostly average (>4000)	Mostly average (>3400)
3	# of overcrowded dwellings	Mostly dense settlement	Not dense settlement	Not dense settlement
4	# of dwellings destroyed by last hazard	28 households affected by flood 78 household apartment basement affected by flood cutting off electricity	5 ger houses and fences collapsed due to strong wind and storm in 2016 30 cars drowned in flood when concrete bridge collapsed in 2000	No

### 6. Physical infrastructure

No.	Municipality/ District			
	Name of Community	7 Khoroo	24 Khoroo	25 Khoroo
1	Are the streets and roads in this settlement planned and paved?	No	3,5m asphalt road planned in the main road 2,7m dirt road improved for even surface	No
2	How many schools are there in this settlement? Are they built in a resilient manner?	1 school 3 kindergarten	2 school 2 kindergarten	1 school 1 kindergarten
3	How many hospitals/health posts are there in this settlement? Are they built in a resilient manner?	1 community health center	1 community health center	1 community health center
4	Are the necessary protective infrastructures in place (e.g. dams,	No	No	=

	<u>walls) to reduce impact of flooding, storms, etc. in this community?</u>		<u>Need to build dam by the Baruun Salaa Bridge and canals are needed along the riverside</u>	
<u>5</u>	<u>Does this settlement have an operational drainage system? Is it sufficient to drain precipitation and avoid flooding?</u>	<u>No</u>	<u>Flood canal was recently built near School No. 128</u>	<u>=</u>

#### **7. Water resources and sanitation**

<u>No.</u>	<u>Municipality/ District</u>			
	<u>Name of Community</u>	<u>7 Khoroo</u>	<u>24 Khoroo</u>	<u>25 Khoroo</u>
<u>1</u>	<u># of households with toilet</u>	<u>2204</u>	<u>1616</u>	<u>1392</u>
<u>2</u>	<u>% of households using following types of toilets:</u> <u>1) Shared community toilet</u> <u>2) Share neighbors</u> <u>3) Connected to septic tank</u> <u>4) Straight pipe</u> <u>5) Connected to town sewerage system</u>	<u>- 86 households in public housing with shared community toilet</u>  <u>20% apartment complex "Khilchin hothon" is connected to sewerage network</u> <u>78% pit latrines</u>	<u>- 2 public toilets</u>  <u>-10 households in "Erh chuluu hothon" apartment complex is connected to sewerage system</u>  <u>90%pit latrines</u>	<u>- 100% pit latrines</u>
<u>3</u>	<u>Average type of toilet:</u> <u>1) Water seal 2) Flush 3) Pit</u>	<u>78% pit latrines</u>	<u>90% pit latrines</u>	<u>100% pit latrines</u>
<u>4</u>	<u># of households with toilet discharging directly into the environment (unimproved pit toilet or straight pipe to sea/river/etc.)</u>	<u>0</u>	<u>1000 household is in the swampy areas of 7th and 9th kheseg. Their pit latrines might be affecting the waterway.</u>	<u>=</u>
<u>5</u>	<u>Main water resource</u>	<u>- 4 water kiosk sell / provide water to the community (water trucked)</u> <u>- 12 ground wells</u>	<u>- 1 water kiosk sell / provide water to the community (water trucked)</u> <u>-24 ground wells</u>	<u>- 3 water kiosk sell / provide water to the community (water trucked)</u> <u>-19 ground wells</u>
<u>6</u>	<u>How to dispose of used toilets?</u> <u>- Take out to throw away</u> <u>- Suction out</u>	<u>Bury and dig new one</u>		



	<u>- Bury and dig new one</u>			
7	<u># of households that own (not shared) formal water connection with meter</u>	<u>22%</u>	<u>10%</u>	<u>0</u>

#### 8. Waste and waste infrastructure

No.	Municipality/ District			
	Name of Community	7 Khoroo	24 Khoroo	25 Khoroo
1	<u>Existence of regular waste collection by council or private organization</u>	<u>Yes</u>	<u>Yes</u>	<u>Yes</u>
		<u>Municipality urban service company is responsible for waste collecting and waste management but since it is a public service company, the service is insufficient and ineffective.</u>		
2	<u># of households to dispose waste in river, creek, or sea</u>	<u>Only when garbage disposal service has not come on time</u>		<u>=</u>
3	<u># of households to burn or bury waste</u>	<u>551 households (burns tires, clothing, shoes etc.)</u>	<u>130 households</u>	<u>=</u>

#### 9. Natural assets protected or rehabilitated

No.	Municipality/ District			
	Name of community	7 Khoroo	24 Khoroo	25 Khoroo
1	<u>Does this community report issues with pollution/ environmental degradation (e.g. forest or mangroves)? And how many people affected (livelihoods)</u>	<u>- waste and pollution due to flood</u> <u>- streets are not pedestrian friendly</u>	<u>0</u>	<u>0</u>
2	<u>Has any steps been taken in this community to improve/ maintain/reduce impacts on natural assets? If not, why?</u>	<u>- the water inside the flooded plot was pumped by the State Emergency Department.</u> <u>- kheseq leaders work to pump waters from residents' plots</u>	<u>- provided ger house to 12 households affected by the strong wind-storm</u> <u>- build pit latrines for 40 households that did not have toilets</u>	<u>- distributed trees to 100 households to prevent dryness and dust</u>

		<u>- residents want to take action, but it can not be implemented because of financial problems.</u>	<u>- distribute trees to 300 households to prevent dryness and dust</u>	
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#### 10. Improved policies & regulations

No.	Municipality/ District			
	Name of community	7 Khoroo	24 Khoroo	25 Khoroo
1	<u>Does the city/community has the necessary building regulations for resilient development? Are they enforced properly in this community?</u>	<u>Yes but implementation is low</u>	<u>Yes</u>	<u>Unknown</u>
2	<u>Has any policy been introduced or adjusted to address climate change in the community?</u>	<u>In khoroo and district level</u>	<u>No</u>	<u>=</u>

## RAPID SETTLEMENT ASSETS SURVEY – Covering all target communities

BUILDING URBAN CLIMATE RESILIENCE

UN-HABITAT - ADAPTATION FUND

SUKHBAATAR and BAYANZURKH DISTRICTS

#### 1. Beneficiaries

No.	Municipality/ District	Ulaanbaatar			
	Name of community	Sukhbaatar			Bayanzurkh
		12 Khoroo	13 Khoroo	16 Khoroo	9 Khoroo
1	<u>Total population</u>	<u>7,268</u>	<u>9,119</u>	<u>11,945</u>	<u>13,766</u>
2	<u>Number of Female</u>	<u>=</u>	<u>4,568</u>	<u>6,128</u>	<u>7,023</u>
3	<u># of &lt; age 14</u>	<u>2,114</u>	<u>2,572</u>	<u>3,697</u>	<u>2,355</u>

4	# of age 15-24	<u>1,013</u>	<u>1,351</u>	<u>1,664</u>	<u>2,149</u>
5	# of age 25-60	<u>3,741</u>	<u>4,694</u>	<u>5,826</u>	<u>6,697</u>
6	# of > age 60	<u>400</u>	<u>447</u>	<u>758</u>	<u>670</u>
7	# of disabled population	<u>213</u>	<u>239</u>	<u>288</u>	<u>724</u>
8	# of indigenous people	=	=	=	=
9	# of immigrants	<u>518</u>	<u>40</u>	<u>179</u>	<u>194</u>
10	# of informal people	<u>276</u>	<u>76</u>	<u>100</u>	<u>95</u>
11	# of households	<u>2,189</u>	<u>2,522</u>	<u>3,127</u>	<u>3,785</u>
12	Poverty rate (%)	657 households (30%)	180 households (7%)	396 households (13%)	572 households (15%)
13	How many people will benefit from the following proposed interventions in the community:				
	Physical/structural interventions (specify what is relevant): - Drainage canals in most vulnerable areas - Improved (eco) pit latrines - Construction of fence around dams - Tree plantation (through involvement of school children)	50%	75%	50%	95%
	Trainings	30%	90%	30%	90%
	Communication	60%	90%	40%	90%
	Information - including: Analysis of catchment area (rather than political boundaries) to study flood control measures needs	50%	90%	50%	90%
14	Are there early warning systems in place covering different types of hazards (e.g. floods, cyclones, storms, droughts, etc.)	- information is posted on khoroo office Facebook page	- kheseg leaders go around houses to deliver communicate warnings	- no public warning system at khoroo level - district office has public warning system installed (loud speaker)	- written warning is given by khoroo and kheseg leaders to households located in areas which could be affected by flood
15	Existence of drainage system	No drainage canal but one dam (770m)		No drainage canal but	

				<u>1 earth dam with no concrete coating</u>	
16	<u>Existence of sewage system</u>	<u>No central sewage system</u>		<u>Only 10 business facilities are connected to the central system</u>	<u>No central sewage system</u>
17	<u>Existence of different groups (ethnic, women, elderly, disabled, youth) who are treated differently. If so, how?</u>	<u>518 Chinese immigrants get welfare from the government but do not participate in election</u>	<u>No</u>	<u>No</u>	<u>No</u>
		<u>Elderly receive pension and disabled receive monthly allowance (equivalent to minimum wage)</u>			
18	<u>Participation of women in decision-making process. If no, why?</u>	<u>High participation</u>	<u>High participation</u>	<u>High participation</u>	<u>High participation</u>
19	<u>Main livelihoods / sources of income in community?</u>	<u>Government and private sector employment; running small business (shops, restaurants, repair and maintenance services)</u>			
		<u>Few households have kitchen garden</u>	<u>Some residents have part time employment in construction material shop / market area</u>		<u>Some have household level production (felt making, sewing, etc.)</u>
20	<u>Main environmental problems (Choose Top 3)</u> <u>1) River flooding</u> <u>2) Surface Flooding (rainwater)</u> <u>3) River Bank Erosion (soil disappearing)</u> <u>4) Inland erosion</u> <u>5) Pollution (dirty air, dirty water, dirty soil)</u> <u>6) Rubbish (waste management)</u> <u>7) Drainage (e.g. blocked drains)</u> <u>8) Sanitation (problems with toilet)</u> <u>9) Decline in forest areas</u> <u>10) Plant Disease</u> <u>11) Insects or bugs (flies, mosquitoes)</u>	<u>2. some houses are built in swampy, unsafe areas (basin way blocking natural flow of water)</u> <u>- houses and streets flooded in 2006</u> <u>5. air pollution during winter from burning coal for heating</u> <u>- soil pollution due to lack of waste disposal</u> <u>6. garbage floats from neighboring district (Chingiltei)</u>	<u>2. water is collected in the streets during rain, flood</u>  <u>5. soil pollution from lack of proper disposal of grey water and pit latrines</u> <u>- air pollution during winter from burning coal for heating</u>	<u>2. surface flooding of roads and compounds (no reported flood issue for past 2 years)</u>  <u>5. air pollution during winter from burning coal for heating</u>	<u>2. surface flooding of roads and compounds</u>  <u>5. air pollution from burning of garbage</u> <u>- air pollution during winter from burning coal for heating</u> <u>6. waste from hospital and from waste disposal center comes to the area</u>

	<u>12) agriculture sustainability</u>	<u>8. pit latrines are often dug 1 meter from because of hard surface filling up and overflowing</u>	<u>8. pit latrines are often overflowing</u>	<u>8. pit latrines are often overflowing</u> <u>- ground elevated due to frozen soil</u>	<u>due to lack of proper disposal</u> <u>8. pit latrines are often overflowing</u>
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## 2. Climate change - impacts, barriers for adaptation and possible interventions analysis

<u>No.</u>	<u>Municipality/ District</u>	<u>Name of community</u>	<u>Most problematic climatic hazard</u>	<u>Effects on the community</u>	<u>Factors stopping your community from coping with current impacts</u>	<u>Possible resilience building interventions identified</u>
<u>1</u>	<u>Ulaanbaatar</u>	<u>SB 12 khoroo</u>	<u>- cannot dig pit latrines below 1 meter therefore they overflow frequently particularly during spring and when it rains (also grey water)</u> <u>- air pollution is particularly accumulated in this area during winter from burning coal for heating</u> <u>- soil pollution due to lack of waste disposal</u> <u>- dam situated in the middle of the khoroo is highly polluted because some households and construction companies dispose waste in it</u>	<u>- toilet waste and grey water freezes during the winter then melts during spring leading to pollution</u> <u>- air pollution during winter is a perennial hazard to health for the people</u> <u>- households are prone to diseases due to waste disposal surrounding dam areas</u>	<u>- most khoroo /international agency projects are not addressing resident's health issues</u> <u>- a community project of 4 household sharing one toilet was introduced but could not be implemented due to financial issues</u> <u>- surveillance camera is installed and operated by the police. Police and khoroo office's cooperation is weak in surveillance of garbage disposal</u> <u>- top down process of policies</u>	<u>- residents are more likely to solve such problems within small groups</u> <u>- introduction of improved pit latrines and shared latrines</u> <u>- plant trees around the dam and in community plots</u> <u>- fence the dam area to prevent people from throwing trash</u> <u>- install street lights and surveillance camera</u> <u>- use proper chemical for waste disposal</u> <u>- community awareness about waste disposal, hand washing, disaster preparedness, etc.</u>

<u>2</u>		<u>SB 13 khoroo</u>	<ul style="list-style-type: none"> <li>- cannot dig pit latrines below 1 meter therefore they overflow frequently particularly during spring and when it rains (also grey water)</li> <li>- air pollution is particularly accumulated in this area during winter from burning coal for heating (and burning of tires and construction materials)</li> <li>- soil pollution due to lack of waste disposal</li> <li>- flooding especially after rain</li> <li>- dam is highly polluted because some households and construction companies dispose waste</li> </ul>	<ul style="list-style-type: none"> <li>- toilet waste and grey water freezes during the winter then melts during spring leading to pollution</li> <li>- air pollution during winter is a perennial hazard to health for the people</li> <li>- households are prone to diseases due to waste disposal surrounding dam areas</li> </ul>	<ul style="list-style-type: none"> <li>- financial difficulty</li> <li>- khoroo does not have independent budget for flood control</li> <li>- no incentive or community for those who try to clean the area</li> <li>- residents try to fix canals but lack professional know how</li> <li>- 5 people are in charge of cleaning the khoroo for small salary but it is not stable as cleaning happens only before important events or national holidays</li> </ul>	<ul style="list-style-type: none"> <li>- residents are more likely to solve such problems within small groups</li> <li>- introduction of improved pit latrines and shared latrines</li> <li>- plant trees around the dam and in community plots</li> <li>- fence the dam area to prevent people throwing trash</li> <li>- street lights, surveillance camera</li> <li>- use proper chemical for waste disposal</li> <li>- community awareness about waste disposal, hand washing, disaster preparedness, etc.</li> </ul>
<u>3</u>		<u>SB 16 khoroo</u>	<ul style="list-style-type: none"> <li>- cannot dig pit latrines below 1 meter therefore they overflow frequently particularly during spring and when it rains (also grey water)</li> <li>- air pollution is particularly accumulated in this area during winter from burning coal for heating (and burning of tires and construction materials)</li> </ul>	<ul style="list-style-type: none"> <li>- toilet waste and grey water freezes during the winter then melts during spring leading to pollution</li> <li>- air pollution during winter is a perennial hazard to health for the people</li> <li>- households are prone to diseases due to waste disposal surrounding dam areas</li> </ul>	<ul style="list-style-type: none"> <li>- financial difficulties for the khoroo</li> <li>- electricity bills become burden for households</li> </ul>	<ul style="list-style-type: none"> <li>- sewerage canals need to be built and connected to central connection</li> <li>- electric heating system needs to be introduced</li> <li>- residents are more likely to solve such problems within small groups</li> <li>- introduction of improved pit latrines and shared latrines</li> <li>- plant trees around the dam and in community plots</li> </ul>

			<ul style="list-style-type: none"> <li>- <u>as the waste recycle center is located on top of the ridge, waste and burnt materials comes down to the residential areas</u></li> <li>- <u>lack proper disposal of hospital waste</u></li> </ul>			<ul style="list-style-type: none"> <li>- <u>fence the dam area to prevent people throwing trash</u></li> <li>- <u>street lights, surveillance camera</u></li> <li>- <u>use proper chemical for waste disposal</u></li> <li>- <u>community awareness about waste disposal, hand washing, disaster preparedness, etc.</u></li> </ul>
<u>4</u>		<u>BZ 9 kho-roo</u>	<ul style="list-style-type: none"> <li>- <u>cannot dig pit latrines below 1 meter therefore they overflow frequently particularly during spring and when it rains (also grey water)</u></li> <li>- <u>air pollution is particularly accumulated in this area during winter from burning coal for heating</u></li> <li>- <u>lack of proper waste disposal from the hospital</u></li> <li>- <u>as the final bus stop is located here and as there are no public toilets, people void in the open polluting the area</u></li> </ul>	<ul style="list-style-type: none"> <li>- <u>toilet waste and grey water freezes during the winter then melts during spring leading to pollution</u></li> <li>- <u>air pollution during winter is a perennial hazard to health for the people</u></li> <li>- <u>due to waste disposal in the dam areas surrounding households are prone to diseases</u></li> </ul>	- <u>financial problems for kho-roo</u>	<ul style="list-style-type: none"> <li>- <u>concrete existing earth dam, connect through pipe, road in swampy areas</u></li> <li>- <u>residents want to move or improve Tsagaan davaa recycle center (waste disposal)</u></li> <li>- <u>redevelop bus stop, connect public amenities to central water and sewage system</u></li> <li>- <u>residents are more likely to solve such problems within small groups</u></li> <li>- <u>introduction of improved pit latrines and shared latrines</u></li> <li>- <u>plant trees around the dam area and in community plots</u></li> <li>- <u>fence the dam area to prevent people throwing trash</u></li> <li>- <u>street lights, surveillance camera</u></li> <li>- <u>use proper chemical for waste disposal</u></li> </ul>



						- community awareness about waste disposal, hand washing, disaster preparedness.
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### 3. Strengthened institutional capacity

No.	Municipality/ District				
	Name of community	Sukhbaatar 12 Khoroo	Sukhbaatar 13 Khoroo	Sukhbaatar 16 Khoroo	Bayanzurkh 9 Khoroo
1	Is there a community plan for hazard risk reduction/ climate change adaptation?	Yes	Yes	Yes	Yes
2	Have there been any training on risk reduction and resilience?	Training provided once by district office	Training provided by World Vision 3 times last year	Training provided once by district office	Training provided by State Emergency Department
3	Is there a municipal CC and resilience plan incorporated into planning schemes?	Yes	Yes	Yes	Yes
4	Is there any community level awareness of exposure to at least one key hazard?	Yes Insufficient	Yes Insufficient 10-30 people participated in last training session which happened in the streets where people are most likely to meet	Yes - insufficient awareness of flood. - written warnings are provided only to households who could be affected - earthquake training has been regularly provided	Yes Insufficient

### 4. Health issues related to climate change

No.	Municipality/ District				
	Name of community	Sukhbaatar 12 Khoroo	Sukhbaatar 13 Khoroo	Sukhbaatar 16 Khoroo	Bayanzurkh 9 Khoroo
1	# of households to report an occupant with diarrhea in last 3 months in this settlement	5 people	1 person 3 suffered from dysentery	6 people	5 people

<u>2</u>	<u># of households to report an occupant with malaria/ dengue last year</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<u>3</u>	<u>Existence of drainage issues that may give rise to mosquito borne diseases</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>
<u>4</u>	<u>Main health problems/ issues</u>	<u>- infections due to lack of awareness about hand washing (hand and mouth diseases)</u> <u>- diarrhea, infectious disease, respiratory disease, chickenpox</u>			

### 5. Urban development and housing

<u>No.</u>	<u>Municipality/ District</u>				
	<u>Name of community</u>	<u>Sukhbaatar 12 Khoroo</u>	<u>Sukhbaatar 13 Khoroo</u>	<u>Sukhbaatar 16 Khoroo</u>	<u>Bayanzurkh 9 Khoroo</u>
<u>1</u>	<u>Is this community organised/built according to an urban plan? (or is this settlement considered informal?)</u>	<u>Informal settlement</u> <u>There is a community group of 6 people in each kheseg to manage community issues.</u>	<u>Informal settlement</u> <u>There is a community group of 20 people in each kheseg to manage community issues.</u>	<u>Informal settlement</u> <u>No group</u>	<u>Informal settlement</u> <u>There is community group to manage redevelopment issues</u>
<u>2</u>	<u># of dwellings with 'average' or 'poor' quality walls</u>	<u>Mostly poor (&gt;2000)</u>	<u>Mostly poor (&gt;2400)</u>	<u>Mostly poor (&gt;3100)</u>	<u>Mostly poor (&gt;3780)</u>
<u>3</u>	<u># of overcrowded dwellings</u>	<u>Mostly dense settlement</u>	<u>Mostly dense settlement except for swampy areas</u>	<u>Old areas are dense settlements</u> <u>Newer settlements are not dense</u>	<u>As this is newer settlement the settlement is not dense</u>
<u>4</u>	<u># of dwellings destroyed by last hazard</u>	<u>0</u>	<u>- 28 households near Nagoon Talbai were affected by flood last year</u> <u>- toilet water overflowed in most plots</u>	<u>- 1 affected by flood</u> <u>- 10 houses in river valleys affected</u>	<u>- 60th street basin overflowed and 162 household were in state of emergency during flood (as listed by the State Emergency Department)</u>

### 6. Physical infrastructure

<u>No.</u>	<u>Municipality/ District</u>
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	<u>Name of community</u>	<u>Sukhbaatar 12 Khoroo</u>	<u>Sukhbaatar 13 Khoroo</u>	<u>Sukhbaatar 16 Khoroo</u>	<u>Bayanzurkh 9 Khoroo</u>
<u>1</u>	<u>Are the streets and roads in this settlement planned and paved?</u>	<u>- all improved except 2 streets</u>	<u>- some are graveled (only temporary improvement)</u>	<u>- 3 streets improved with gravel but as the streets got elevated, plots become lower and water comes through the slopes into the plots</u> <u>- as the area is located on the ridge slope roads are particularly difficult during winter season</u>	<u>- one paved street</u>
<u>2</u>	<u>How many schools are there in this settlement? Are they built in a resilient manner?</u>	<u>no kindergarten</u>	<u>1 kindergarten</u> <u>1 planned (200 children)</u>	<u>no kindergarten</u>	<u>1 kindergarten (250 children)</u>
<u>3</u>	<u>How many hospitals/health posts are there in this settlement? Are they built in a resilient manner?</u>	<u>1 community health center</u>	<u>1 community health center</u>	<u>1 community health center</u> <u>1 nursing home</u>	<u>1 community health center</u> <u>1 hospital</u>
<u>4</u>	<u>Are the necessary protective infrastructures in place (e.g. dams, walls) to reduce impact of flooding, storms, etc. in this community?</u>	<u>No drainage canal but one dam (770m)</u>		<u>No drainage canal but 1 earth dam with no concrete coating</u>	
<u>5</u>	<u>Does this settlement have an operational drainage system? Is it sufficient to drain precipitation and avoid flooding?</u>	<u>No</u>	<u>1 canal but insufficient</u>	<u>No</u>	<u>No</u>

#### 7. Water resources and sanitation

<u>No.</u>	<u>Municipality/ District</u>				
	<u>Name of community</u>	<u>Sukhbaatar 12 Khoroo</u>	<u>Sukhbaatar 13 Khoroo</u>	<u>Sukhbaatar 16 Khoroo</u>	<u>Bayanzurkh 9 Khoroo</u>
<u>1</u>	<u># of households with toilet</u>	<u>1000 pit latrines</u>	<u>1569 pit latrines</u>	<u>2200 pit latrines</u>	<u>1081 pit latrines</u>

2	% of households using following types of toilets: 1) Shared community toilet 2) Share neighbors 3) Connected to septic tank 4) Straight pipe 5) Connected to town sewerage system	100% pit latrines	- 1 public toilet - 10 houses connected to sewerage network	- 5 public toilets (for 50 households)	- 4 public toilets - 12 public facilities have septic tanks (kindergarten, khoroo office) and 4 households
3	Average type of toilet: 1) Water seal 2) Flush 3) Pit	100% pit latrines	100% pit latrines	- 95% pit latrines	95% pit latrines
3	# of households with toilet discharging directly into the environment (unimproved pit toilet or straight pipe to sea/river/etc.)	0	0	0	0
3	How to dispose of used toilets? a) Take out to throw away b) Suction out c) Bury and dig new one	- bury and dig new ones	- bury and dig new ones - few households who can afford use suction	- bury and dig new ones	- bury and dig new ones - few houses use chemicals to dissolve
4	Main water resource	- 4 water kiosk sell / provide water to the community (water trucked) - 1 water kisok connected to central system	- 4 water kiosk sell / provide water to the community (water trucked) - 3 water kisok connected to central system	- 6 water kiosk sell / provide water to the community (water trucked) - 3 ground wells - 4 water kisok connected to central system	- 14 water kiosk sell / provide water to the community (water trucked)
5	# of households that own (not shared) formal water connection with meter	0	0	0	0

#### 8. Waste and waste infrastructure

No.	Municipality/ District				
	Name of community	Sukhbaatar 12 Khoroo	Sukhbaatar 13 Khoroo	Sukhbaatar 16 Khoroo	Bayanzurkh 9 Khoroo

<u>1</u>	<u>Existence of regular waste collection by council or private organization</u>	<u>One private service company (Devshil) collects waste every day</u>	<u>One private service company (Suzuki Yume) collect waste every day</u>	<u>Public services company (No. 3) collects waste every day</u>
<u>2</u>	<u># of households to dispose waste in river, creek, or sea</u>	<u>Few households dispose waste in the dam</u> <u>Construction waste is not collected by the service providers so is disposed in public places (dam)</u>		
<u>3</u>	<u># of households to burn or bury waste</u>	<u>0</u>		

#### 9. Natural assets protected or rehabilitated

<u>No.</u>	<u>Municipality/ District</u>				
	<u>Name of community</u>	<u>Sukhbaatar 12 Khoroo</u>	<u>Sukhbaatar 13 Khoroo</u>	<u>Sukhbaatar 16 Khoroo</u>	<u>Bayanzurkh 9 Khoroo</u>
<u>1</u>	<u>Does this community report issues with pollution/ environmental degradation (e.g. forest or mangroves)? And how many people affected (livelihoods)</u>	<u>0</u>	<u>Reports that waste thrown in the dams is affecting air quality</u>	<u>Some reports about waste disposal issues</u>	<u>- issues reported with hospital waste disposal</u> <u>- issues reported with Tsagaan davaa recycle center – to move the center to a new place</u>
<u>2</u>	<u>Has any step been taken in this community to improve/ maintain/reduce impacts on natural assets? If not, why?</u>	<u>0</u>	<u>Have cleaned some parts of the dam</u>	<u>No.</u>	<u>- residents submit their reports to the office while office sends it to municipality but no actions are taken</u> <u>- office has given small salary to those who cleaned the mountain area where garbage comes from recycle center</u>

#### 10. Improved policies & regulations

<u>No.</u>	<u>Municipality/ District</u>				
	<u>Name of community</u>	<u>Sukhbaatar 12 Khoroo</u>	<u>Sukhbaatar 13 Khoroo</u>	<u>Sukhbaatar 16 Khoroo</u>	<u>Bayanzurkh 9 Khoroo</u>
<u>1</u>	<u>Does the city/community has the necessary building regulations for</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>

	<u>resilient development? Are they enforced properly in this community?</u>				
<u>2</u>	<u>Has any policy been introduced or adjusted to address climate change in the community?</u>	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>

## Part 2: Documentation of Community Rapid Needs Assessment Workshops for Flood Resilience

### Khoroo 7

A Community Rapid Needs Assessment Workshop for Flood Resilience was organized by UN-Habitat Mongolia team on 12 October 2017 in 7<sup>th</sup> Khoroo (Sub-District) of Songino-Khairkhan District of Ulaanbaatar City. The workshop was attended by 37 participants including Khoroo Governor, Kheseg Leaders and local residents. During the workshop the participants discussed their flood related problems and articulated potential actions for solution. The problems were compiled by the participants as per the following groups.

Problems	
<b>Environmental</b>	<p>Because of low land, even after a moderate rain and snow the entire settlement turns to the puddle of rainfall from the runways and surrounding mountains. Due to low water absorption capacity of soil, the puddles remain in the area until winter and get frozen. When the puddles get frozen, people will have a persistent risk of injury for the people of the area because of icy surface for the entire winter months.</p> <p>For many years the area people have been trying to solve the wet and muddy surface problem individually by putting gravel and soil onto the puddles and on the top of icy surface for their living and safe passages through the area. As result of this, there are thick layers of soil and gravel being formed in some places over the wet soil creating following new problems. One of immediate problems is that the piles of soil poured on the puddle without much consideration of stream of rainfall make other areas in the vicinity prone to the flood. The second is that the soil layer cracks sometimes creating small to big holes on the surface and limits the movements of people and vehicle on the surface. Every time it has been resulted in the malfunctioning of roads and drainages, in breaking of the normal life leadings of the people including the difficulties to access their plots and homes.</p>
<b>Economical</b>	<p>Due to muddy and rocky road conditions, the cars often get damaged.</p> <p>Wooden and felt structures of ger and houses such as floor and walls get easily worn out due to regular interaction with the muddy surface.</p> <p>Shoes and clothes of people especially children easily get deteriorated</p> <p>Have to buy often soil and gravel to put onto mud.</p>
<b>Health</b>	<p>Pit latrines and waste water disposal holes get filled up easily with rainfall water and overflowed contents pollute the surrounding area while creating health risks to the people.</p> <p>Rainfall water sweeps up all the garbage in the gullies and brings to the catchment area. This often results in soil pollution with the potential risk of danger from hazardous waste.</p> <p>Due to floods the roads get damaged and cracked. People especially children and old fall to the cracks and get injuries.</p> <p>Drinking water from wells gets polluted</p> <p>Water borne infectious diseases spread over the settlement after the flooding</p>

During the problem identification, the participants were given the settlement map and marked the existing natural and manmade features relevant to rainfall water movement in the area. Please refer to Map 1 for the information. The orange lines on the Map 1 show the natural gullies which bring the rainfall and snow water from the surrounding mountains and high lands to the settlement. Rose lines are old embankments which don't function any more. Blue lines are Tolgoit river. Blue dots are natural small fountains which were not there before but have appeared on the ground inside of private plots from recent years. Purple lines are existing foot bridges over the stagnant water.

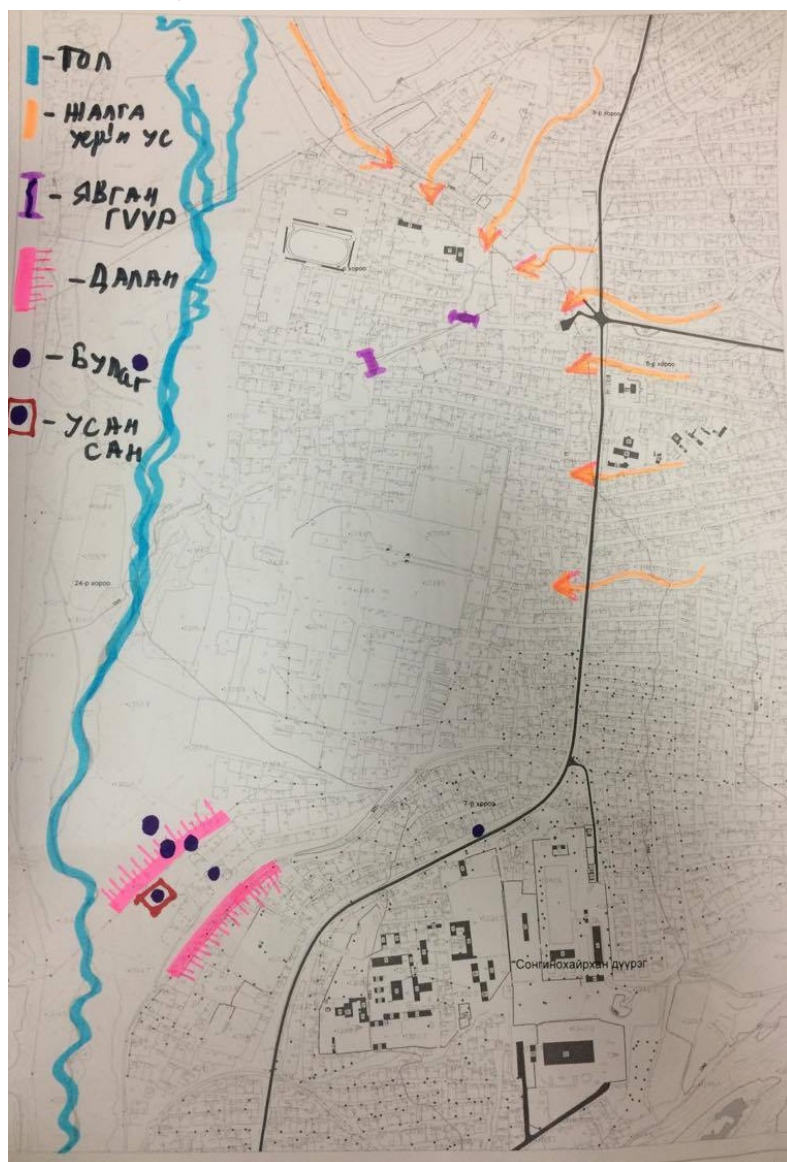
After the problems identification potential actions were identified by the participants as per the below table. Participating communities were expressing their appreciation to the organizers of the workshop



for paying attention to the quality of their lives and bringing up the flood resilience issue for the area people as this was the most pressing issue for the recent years. The organizers were invited by the participants to visit their plots and houses and see the real situation on the ground. The organizer team visited the plots and houses after the workshop and took photos of ground situation.

<b>Potential actions for improvement</b>	
<b>Medium scale Construction work</b>	<u>Construction of flood control facilities including drainage, embankment, ditches and installation of culverts</u>
	<u>Construction of bridges over big gullies and river basin area</u>
	<u>Connect households and businesses to the central and local sanitation systems</u>
	<u>Improvement of sewerage system</u>
	<u>Construction of septic tanks shared within 5-8 Households</u>
	<u>Divert the stream of surface runoff into the Baruun Salaa River</u>
	<u>Establish a rainwater harvesting reservoir to collect and store rainwater for green area irrigation purpose</u>
	<u>Establish a surface water reservoir using the natural springs and streams</u>
	<u>Construct a sewerage network</u>
	<u>Learning from international and national good experiences</u>
<b>Small scale work</b>	<u>Organize activities to improve water absorption capacity of soil such as planting trees</u>
	<u>Landscaping of the streets</u>
	<u>Community flood resilience building activities through community mobilization, organization and training</u>
	<u>Train the communities in flood protection, mitigation and adaptation capacities</u>
<b>Households and neighborhood scale work</b>	<u>Improve pit latrines and waste water disposal pits of households using the ways to prevent the pits from flooding by surface water and make them safer for water quality of ground water table</u>
	<u>Organize activities to improve water absorption capacity of soil such as planting trees and pumping the excess stagnant surface water</u>
	<u>Share experiences between communities and learn from others</u>
	<u>Organize neighborhoods into self-help groups with common goal of building flood resilience and helping each other</u>
	<u>Improve landscaping of the streets</u>

Map 1. 7<sup>th</sup> Khoroo area map



|

Photos during the workshop



Photos during the field visit.



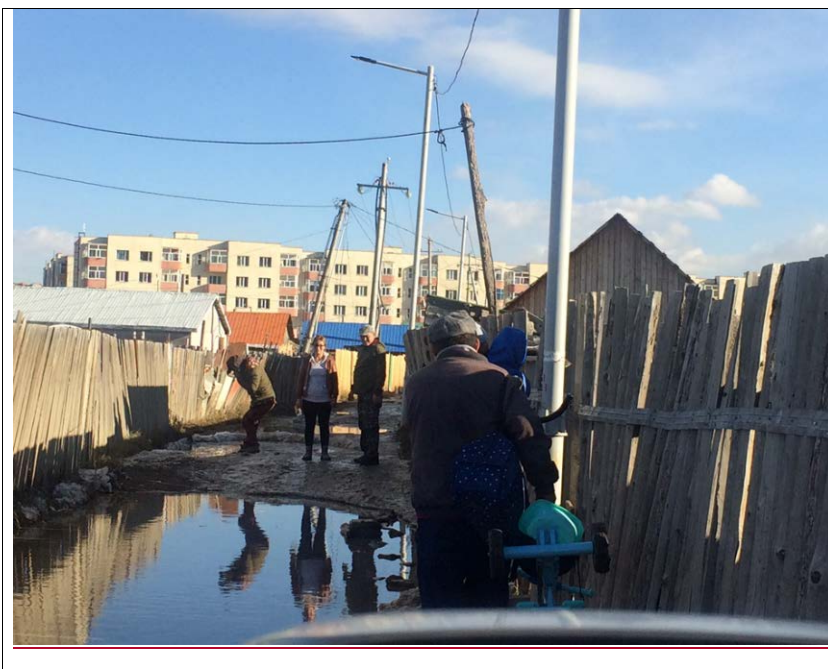












## Khoroo 9

**Topic/Уулзалтын Сэдэв:** Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох

**Noted by/Тэмдэглэл хөтөлсөн:**  
Н.Золзаяа

**Reviewed/Тэмдэглэлтэй танилцсан:**

**№:** 04/17

**Date/Огноо:** 07.12. 2017

**Venue/Байршил:** БЗД-ийн 9-р хорооны иргэний танхим

**At-  
tendees/Оролцогчдын тоо:** 22

**Facilitators/Зохион байгуулагчид:** Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Н.Золзаяа/НҮБ-Хабитат байгууллага, Нийгэм жөндөрийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/

**Participants/Оролцогчид:** БЗД-ийн 9-р хорооны оршин суугчид

**Meeting purpose/Уулзалтын Зорилго:** Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх

### Processing/Явуу:

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэм жөндөрийн ажилтан Н.Золзаяа нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг

асуудлуудаар бэрхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бусдадаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны дараа тэдгээрээс нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатайг харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бусдадаа танилцууллаа. Танилцуулгын явцад 7-р хэсгийн орчимд хадархаг учир жорлон ухаж болдоггүйг тэд ярьж байлаа. Мөн байгалийн нөхцөл байдлаас гадна иргэдийн ухамсар хандлагатай холбоотой асуудал их үүсч байгааг ч тэд дурьдаж байна. Энэ хороон дээр жижиг горхи үрсдэг тул тэр горхийн үс айл өрхүүд рүү ордог учир тэр горхийн гольдролыг өөрчилж айлудыг тойруулан өөрчлөх шаардлага байгааг мөн иргэд ярьж байлаа.

**Иргэдийн санал:**

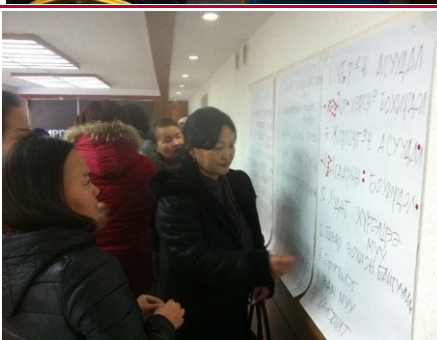
**Иргэн:** Гудамжин дундуур үерийн хоолой тавих шаардлагатай байна. Мөн жалгын эрмэгээр хүн явахад зориулж явган зам хийх шаардлагатай байна.

**Иргэн:** Айл өрхүүд оллуулаа нийлж цооног хийх нь боломжийн хувилбар гэж бодож байна. Айллуудын жорлонруу үерийн үс ордог. Үерийн цооног хогоор дүүрдэг асуудал гардаг.

**Иргэн:** Жалга хогоор дүүрсний улмаас үерийн үс хальж үрсдэгийг болиулах гол арга бол иргэдийн эргүүл, хяналтыг сайжруулах хэрэгтэй байна. Үүний тулд камержуулах шаардлагатай.

**Иргэн:** Иргэдээс өөрсдөөс нь хамаарч байгаа асуудал их байна. Ухуулга сурталчилгааны материалууд тараах, анхааруулах хуудас энд тэндгүй тавих зэргээр иргэддээ л мэдлэг өгөх нь зөв.

**Photo/Зураг:**







### Attendance/Ирцийн бүртгэл:

#### Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Үерийн улмаас оршин суугчдад тулгарч буй бэрхшээлийг тодорхойлох, эрэмбэлэх.....

Venue/ Хаана: .....Баянзүрх Дүүргийн 9-р хороо, Иргэний танхим.....

Date/ Огноо: .....2017-12-07.....

Attendance/ Ирцийн бүртгэл

No	Name Нэр	Хүйс Sex	Өөрт хамаралтай ангилалаа чатгална үү please check follow	Address/Xaar	Утас Telephone	Гарын үсэг Signature
1	Доржпалсаяа	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	62-168	90162040	Доржп
2	Аюулстух	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	10-186	88181573	А.Аюулстух
3	Евэн - Дунд	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	18-225	83272666	Е.Евэн-Дунд
4	Б.Батбаатар	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	42-635 <sup>5</sup>	818078	Б.Батбаатар
5	Б.Бат	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	25-548	89201977	Б.Бат
6	Д.Нугмагал	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	61-906	86610263	Д.Нугмагал
7	Э.Эрдэнэбат	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хагслийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	60-903-7	96603122	Э.Эрдэнэ

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чатгална уу please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
8	C. Dargal	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	00-964	8944448	C. Dargal
9	M. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	0011 Хайрхан 5-108 5000	8822502	M. Juvay
10	T. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	33-809	8818009	T. Juvay
11	U. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	62-907 5	99721619	U. Juvay
12	J. Juvay	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	60-975 5 000	8824603	J. Juvay
13	J. Juvay	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	60-977 000	88910650	J. Juvay
14	J. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	9A6-630	8869783	J. Juvay
15	D. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	33-508	99440164	D. Juvay
16	H. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 64 947	80132054	H. Juvay
17	B. Juvay	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 30-4715	88891050	B. Juvay
18	B. Juvay	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 31.493	88821702	B. Juvay
19	B. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 62-620	88943228	B. Juvay
20	M. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 29-457	8809999	M. Juvay

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чатгална уу please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
21	B. Juvay	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	33 9-р хороо 4/2 55-777 000	88059194	B. Juvay
22	J. Juvay	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	4/2 57-790-9A	9148767	J. Juvay
		<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			
		<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			

## Khoroo 12

**Topic/Уулзалтын Сэдэв:** Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох

**Noted by/Тэмдэглэл хөтөлсөн:**  
Н.Золзаяа

**Date/Огноо:** 06.12. 2017

**Reviewed/Тэмдэглэлтэй танилцсан:**

**Venue/Байршил:** СБД-ийн 12-р хорооны иргэний танхим

**No:** 02/17

**Attendees/Оролцогчдын тоо:** 31

		М/Эр- F/Эм-
<b>Facilitators/Зохион байгуулагчид:</b> Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Н.Золзаяа/НҮБ-Хабитат байгууллага, Нийгэм жендэрийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/		
<b>Participants/Оролцогчид:</b> СБД-ийн 12-р хорооны оршин суугчид		
<b>Meeting purpose/Уулзалтын Зорилго:</b> Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх		

#### **Processing/Явц:**

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэм жендэрийн ажилтан Н.Золзаяа нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг асуудлуудаар брхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бүсдаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны дараа тэдгээрээс нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатайг харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бүсдаа танилцууллаа. Иргэдийн энэ бэрхшээл, шийдвэрлэх асуудлаа тодорхойлох явцад тэдний орчинд үерийн усны асуудал, жорлон хальдаг гэх мэт бохирын усны асуудал маш их байгаа нь илт байлаа. Оршин суугчид энэ бэрхшээлтэй асуудлаа шийдвэрлэхийг ихээр хүсч байгаа нь анзаарагдлаа.

#### **Бохир усны талаар**

Эхний ээлжинд төсөлд хамрагдах өрхүүдийг сонгохдоо дараах шалгуурыг баримтлах хэрэгтэйг иргэд хэллээ.

- Айлуудаа нягталж яг хэнд шаардлагатай байна гэдэг талаар шалгах хэрэгтэй
- Жорлон нь байнга дүүрдэг айл өрхүүдийг сонгох
- Жорлонд нь үерийн үс ордог айлууд
- Өөрөө хүсэж байгаа гэх мэт

Жорлонд тавигдах шаардлагыг иргэд дараахь байдлаар гаргасан байна.

- Тав тухтай доторлогоотой
- Зай талбайтай
- Суултууртай
- Цэвэрлэх боломжтой
- Соруулдаг
- Тэргэнцэртэй хүн сүүхаар био суултуур байдаг ХБИ зориулагдсан
- Суултуур нь өндөр настанд зориулагдсан байх
- Эрэгтэй, эмэгтэйгээр нь тусдаа байх
- Гэрэлтэй байх
- Ханандаа бариултай байх

Ашиглалт арчилгааны талаар иргэд дараахь саналуудыг гаргалаа.

- Муу усны соруулдаг цооногтой байх гудамжиндаа байж болно. Хөршийн холбоогоор соруулах асуудлаа зохицуулах боломжтой.
- Иргэдэд ухуулж ойлгуулах, сурталчилгааг маш сайн хийх, хаана юу яаж хийх талаар зарим хүмүүс муу усны нүхрүү уснаас өөр юм хийдэг тул болохгүй гэдгийг ойлгуулах.
- Камер ажиллуулж хяналтыг сайжруулах

- Бүлэг байгуулаад нэг хүндээ ямар нэгэн урамжуулал өгөөд ашиглалт арчилгааг хариуцуулж болно.

**Иргэдийн санал:**

**Иргэн:** Манайх үерийн сувагтай ойр байдаг. Оршин суугчид хог, мүү үс, малын арьс толгой гэх мэт зүйлүүдийг сувагруу хаядаг тул манай хажуу айлын хүүхдүүд их гэдэс нь өвддөг. Иргэд орчин нөхцлөө сайжруулахын тулд өөрсдөө бага зэргийн мөнгө гаргаж чадна. Албан хүчээр ч хийх боломжтой. Орчин сайжирч байхад хүн болгон зөвшөөрнө гэж бодож байна. Манай энэ хавь их намгархаг тул соруулах зүйл хийвэл зүгээр гэж санагдаж байна. Нийтийн бохирын шугамтай л баймаар байна. Метр ухаад л үс гардаг тул соруулдаг л байвал сайн байна. Манайх гэхэд соруулдаг. Энэ нь маш зөв шийдэл гэж бодож байна. Манайх бол жилдээ 2 удаа соруулдаг. Ам бүл олонтой айл бол олон соруулах байх. Манай энд хөлдүүг нь ухаад аваад явдаг гэхдээ хаана хаяж байгаа талаар хяналттай байхгүй бол болохгүй байна лээ энд тэнд хаячихдаг сүраг байдаг. Ёнкост тавиад соруулдаг байх нь чухал шүү. Иргэдийг зохион байгуулалтанд оруулах хэрэгтэй.

**Иргэн:** Үер их ирдэг, их хүн зорчдог газрууд болон жорлон хальдаг айлуудаа хамгийн түрүүнд сонгох хэрэгтэй. Манай энэ хавь чинь тэр чигтээ үерт ордог. Хамгийн сайн сонголт бол олуулаа нийлж цооног хийх хувилбар гэж бодож байна. Айлуудын жорлонруу үерийн үс ордог. Үерийн цооног хогоор дүүрдэг.

**Иргэн:** 32-ын буудлын хажууд нийтийн жорлон хийх шаардлагатай байна.

**Иргэн:** Ухуулга сурталчилгааны материалууд тараах, анхааруулах хуудас энд тэндгүй тавих зэргээр иргэддээ л мэдлэг өгөх нь зөв.

**Зураг:**







#### Attendance/Ирцийн бүртгэл:

#### Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Үерийн улмаас оршин суугчдад тулгарч буй бэрхшээлийг тодорхойлох, эрэмбэлэх.....

Venue/ Хаана: .....СБДүүргийн 12-р хороо, Иргэний танхим.....

Date/ Огноо: .....2017-12-06.....

Attendance/ Ирцийн бүртгэл

No	Name Нэр	Хүйс Sex	Өөрт хамгааралтай ангилалаа цагтална уу please check follow	Address/Хаяг	Утас Telephone	Гарын үсэг Signature
1	С.Б.Б.Б.Б.Б.	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	94143622	С.Б.Б.Б.Б.Б.
2	А.А.А.А.А.А.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	98162752	А.А.А.А.А.А.
3	О.О.О.О.О.О.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	95124062	О.О.О.О.О.О.
4	Г.Г.Г.Г.Г.Г.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	99208826	Г.Г.Г.Г.Г.Г.
5	Д.Д.Д.Д.Д.Д.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	9610785	Д.Д.Д.Д.Д.Д.
6	Б.Б.Б.Б.Б.Б.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	96957375	Б.Б.Б.Б.Б.Б.
7	А.А.А.А.А.А.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-4865	96049616	А.А.А.А.А.А.

No	Name Нэр	Sex Хүйс	Өврт хамааралтай ангилалаа чагтална уу please check follow	Address/Xaar	Telephone Утас	Signature Гарын үсэг
8	Б. Аюул	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 25-505	9611997	[Signature]
9	Н. Энхтүвшин	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 13-131	99246578	[Signature]
10	У. Урантөр.	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-18-р хороо Хангайн 55-5036	88811253	[Signature]
11	Н. Энхтүвшин	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 23-507	89601209	[Signature]
12	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 18-р хороо Хангайн 28-15 495	99229890	[Signature]
13	Б. Нарангын	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 12-470	91168177	[Signature]
14	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 17-664	88154671	[Signature]
15	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 17-688	94315779	[Signature]
16	С. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 17-36	98241685	[Signature]
17	Н. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 8-296	58851714	[Signature]
18	Н. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Хангайн 7-268	95260665	[Signature]
19	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 28-505	8880709	[Signature]
20	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-12-р хороо Хангайн 17-669	99995795	[Signature]

No	Name Нэр	Sex Хүйс	Өврт хамааралтай ангилалаа чагтална уу please check follow	Address/Xaar	Telephone Утас	Signature Гарын үсэг
21	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 6-219	86028788	[Signature]
22	Н. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 22-7906	91816115	[Signature]
23	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 156-601	95521456	[Signature]
24	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 17-668	99172087	[Signature]
25	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 18-721		
26	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 17-6938	88229709	[Signature]
27	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 15-6237	88756009	[Signature]
28	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 1-6А	99220385	[Signature]
29	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 10-404	96691104	[Signature]
30	Б. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 21-785	99834094	[Signature]
31	М. Нарангын	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хангайн 23-506	95205619	[Signature]

### **Khoroo 13**

<b>Topic/Уулзалтын Сэдэв:</b> <u>Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох</u>		
<b>Noted by/Тэмдэглэл хөтөлсөн:</b> <u>Н.Золзаяа</u>	<b>Reviewed/Тэмдэглэлтэй танилцсан:</b>	<b>№:</b> <u>01/17</u>
<b>Date/Огноо:</b> <u>30.11. 2017</u>	<b>Venue/Байршил:</b> <u>СБД-ийн 13-р хорооны иргэний танхим</u>	<b>Attendees/Оролцогчдын тоо:</b> <u>29</u>
<b>Facilitators/Зохион байгуулагчид:</b> <u>Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Н.Золзаяа/НҮБ-Хабитат байгууллага, Нийгэм жендэрийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/</u>		
<b>Participants/Оролцогчид:</b> <u>СБД-ийн 13-р хорооны оршин суугчид</u>		
<b>Meeting purpose/Уулзалтын Зорилго:</b> <u>Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх</u>		

#### **Processing/Явц:**

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэм жендэрийн ажилтан Н.Золзаяа нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг асуудлуудаар бэрхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бүсдаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны дараа тэдгээрээс нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатайг харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бүсдаа танилцууллаа. Иргэдийн энэ бэрхшээл, шийдвэрлэх асуудлаа тодорхойлох явцад тэдний орчинд үерийн үс айлын хашааруу орж ирдэг үүний улмаас жорлон хальдаг асуудал гардаг байна. Мөн айл өрхүүд байгалийн усны сүвгийн гольдролыг өөрчилдөг, бүлгийн эхэнд зөвшөөрөлгүй буудаг, үерийн хоолойд хогоо хаясны улмаас үерийн үс хальдаг зэрэг асуудлууд их байна. Замбараагүй газар олгодгоос үүдэн гол усны гольдрол өөрчлөгддөг үүний улмаас бас үер усны аюул үүсдэг байна. Мөн зам барьж байгаа компаниуд үс зайлуулах шугамыг хийдэггүйн улмаас чингэлтэй талын борооны үс энэ хорооны нутаг дэвсгэрлүү ордог тухай иргэд ярьж байлаа. Энэ хорооны газарзүйн байрлалаас хамаарч баруун талын уулархаг хэсгийн бороо цасны үс төв замаа даваад урсаж орж ирдгийг бас иргэд илүү тодотгон хэлж байлаа. Байгалийн нөхцөл байдлаас гадна иргэдийн ухамсар хандлагатай холбоотой асуудал их үүсч байгааг тэд дурьдаж байна.

#### **Иргэдийн санал:**

**Иргэн:** Иргэд өөрсдөө намган дээр буучихаад намаг гэж яриад байна. Үүнд төрөөс зохицуулалт хиймээр байна. Манай энд 50 см ухаад л үс гардаг тул жорлон ухаж болдоггүй.

**Иргэн:** Манай энэ хавь чинь тэр чигтээ үерт ордог. Хамгийн сайн сонголт бол олуулаа нийлж цооног хийх хувилбар гэж бодож байна. Айлуудын жорлонруу үерийн үс ордог. Үерийн цооног хогоор дүүрдэг.

**Иргэн:** Замын компаниудаар ажил хийлгэхдээ хяналт сайн тавьж байх хэрэгтэй байна. Зам хийхдээ норм ёсоор нь үерийн сүвүг шүүдүүг нь хийхгүй юм. Үүнээс болоод замын борооны үс айлын хашааруу ордог.

**Иргэн:** Иргэдээс өөрсдөөс нь хамаарч байгаа асуудал их байна. Ухуулга сурталчилгааны материалууд тараах, анхааруулах хуудас энд тэндгүй тавих зэргээр иргэддээ л мэдлэг өгөх нь зөв.

**Иргэн:** Зарим барилгын компаниуд барилгын хог хаягдлаа Сэлбийн голын эргээр асгаад байна. Түүн дээр нь иргэд нэмж хог хаяж байна. Камержуулах шаардлагатай байна. Тэгж байж хэн, хэзээ хог хаяж байгааг хянах боломжтой шүү дээ.

**Photo/Зүрэг:**



**Attendance/Ирцийн бүртгэл:**

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Үерийн улмаас оршин сүүгчдэд тулгарч буй бэрхшээлийг тодорхойлох, эрэмбэлэх.....

Venue/ Хаана: .....СБДүүргийн 13-р хороо, Иргэний танхим.....

Date/ Огноо: .....2017-11-30 .....

Attendance/ Иргэний бүртгэл

Nº	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чаттайна уу please check follow	Address/Kaari	Утас Telephone	Гарын үсэг Signature
1	Ширинэ Зориг Давдас нэм	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД, 13-р хороо Халхон талбай 7-2	99175864	Ш.Давдас
2	Б.У.Х.М.О.М. Халхуу сайхан	<input type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД, 13-р хороо Арсван талбай	88358107 31421007	Б.У.Х.М.О.М.
3	Гантсмыс Цуришмута	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо РБ 6715	80820086 88652024	Цуришмута
4	А.И.Х.У.У.У.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД, 13-р хороо Халхуу талбай 7-3641001	86611868 88615534	А.И.Х.У.У.
5	М.Б.С.Х.Б.О.У.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо Халхуу талбай 7-174	89446565	М.Б.С.Х.Б.О.У.
6	М.Д.Х.М.О.У.У.	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Халхуу талбай 3-16	99885513	М.Д.Х.М.О.У.У.
7	О.Х.С.И. Орхон талбай	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Халхуу талбай 9-778 талбай	88357501	О.Х.С.И.



No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чатгалма уу please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
8	D. Тогто	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо рхын 5-20	88776634	
9	Ц. Даван нам	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо рхын 5-20	88142888	
10	Э. Фигуригунсоров	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо рхын 10-593	99712222	
11	P. Баттөр	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 11-р хороо рхын 11-611	99962187	
12	Э. Уянга	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо рхын 5-593	98461920	
13	С. Амгала	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо Н-Т 5-89	88607536	
14	Наранчигна	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 12-р хороо Н-Т 5-40	95117546	
15	Амгалан	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	НТ 3-39төст	99779617	
16	В. Мунктөгс	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	ХА 22-90 тээт	88172118	
17	Б. Энхсайхан	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо рхын 5-281	95884482	
18	Б. Мунгуу	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо Р. 16-729	98089825	
19	А. Байрлал	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо Р-3-422	88668494	
20	Т. Ахматова	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо А-8-23төст	866163 08	

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чиглэвч үү please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
21	Н. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 16-р хороо рх 5-31д	80407714	Н. Золбаяр
22	М. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-ийн 16-р хороо 3-420	98892015	М. Золбаяр
23	Н. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД-ийн 16-р хороо 3-420	95182920	Н. Золбаяр
24	Анхбаяр	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 13-р хороо рх 9-459	96583898	Анхбаяр
25	Т. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Р-ийн 422	91689797	Т. Золбаяр
26	М. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ногоон 1Т -43	99921566	М. Золбаяр
27	Д. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ногоон 1Т -45	80079995	Д. Золбаяр
28	О. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ногоон 1-44	45760014	О. Золбаяр
29	Ц. Золбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	НТ-6-15	95852971	Ц. Золбаяр
		<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			
		<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			

## Khoroo 16

**Topic/Уулзалтын Сэдэв:** Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох

**Noted by/Тэмдэглэл хөтөлсөн:**  
Н.Золбаяр

**Reviewed/Тэмдэглэлтэй танилцсан:**

**№: 03/17**

**Date/Огноо:** 08.12. 2017

**Venue/Байршил:** СБД-ийн 16-р хорооны иргэний танхим

**Attendees/Оролцогчдын тоо:** 26

**Facilitators/Зохион байгуулагчид:** Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Н.Золбаяр/НҮБ-Хабитат байгууллага, Нийгэм жендэрийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/

**Participants/Оролцогчид:** СБД-ийн 16-р хорооны оршин суугчид

**Meeting purpose/Уулзалтын Зорилго:** Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх

## Processing/Явц:

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэм жендэрийн ажилтан Н.Золбаяр нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг асуудлуудаар бэрхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бүсдаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны



дараа тэдгээрээс 2 нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатайг харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бусдадаа танилцууллаа. Иргэдийн энэ бэрхшээл, шийдвэрлэх асуудлаа тодорхойлох явцад тэдний орчинд үерийн үс айлын хашааруу орж ирдэг үүний улмаас жорлон хальдаг асуудал гардаг байна.

**Иргэдийн санал:**

**Иргэн:** Манай хороон дээр уулархаг налуу хэсэг ихтэй тул борооны үс айл өрхүүдийн жорлонруу ордог. Бас голын сав дагуу амьдардаг айл өрхүүд байдаг тэр орчимд үс гардаг тул жорлон ухаж болдоггүй.

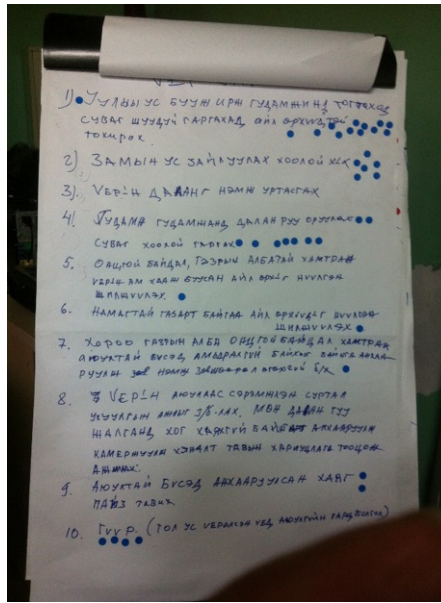
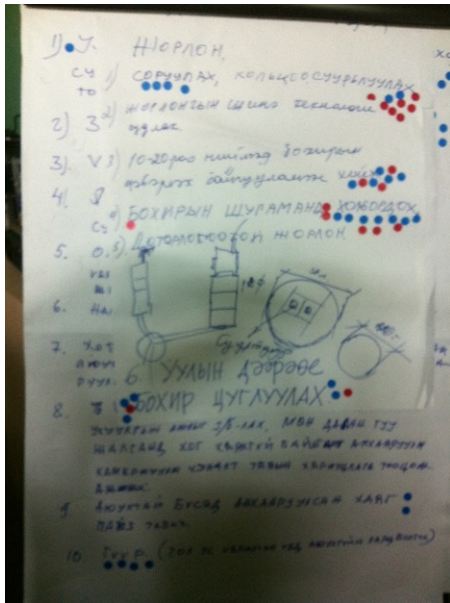
**Иргэн:** Бохирын цооногийг шийдэх хамгийн сайн сонголт бол олуулаа нийлж цооног хийх хувилбар гэж бодож байна. Айлүүдын жорлонруу үерийн үс ордог. Үерийн цооног хогоор дүүрдэг.

**Иргэн:** Замын компаниудаар ажил хийлгэхдээ хяналт сайн тавьж байх хэрэгтэй байна. Зам хийхдээ норм ёсоор нь үерийн суваг шүүдүүг нь хийхгүй юм. Үүнээс болоод замын борооны үс айлын хашааруу ордог.

**Иргэн:** Иргэдээс өөрсдөөс нь хамаарч байгаа асуудал их байна. Ухуулга сурталчилгааны материалууд тараах, анхааруулах хуудас энд тэндгүй тавих зэргээр иргэддээ л мэдлэг өгөх хэрэгтэй байна.

**Photo/Зураг:**





Attendance/Ирцийн бүртгэл:

# Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Үерийн улмаас оршин суугчдад тулгарч буй бэрхшээлийг тодорхойлох, эрэмбэлэх.....

Venue/ Хаана: .....Сүхбаатар Дүүргийн 16-р хороо, Иргэний танхим.....

Date/ Огноо: .....2017-12-08.....

Attendance/ Ирцийн бүртгэл

Nº	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чагтална үү / please check follow	Address/Хаяг	Утас Telephone	Гарын үсэг Signature
1	С.Нарангынзүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Баян - 55-6-836	99757179	Нарангынзүр
2	О.Амжир	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Өмнөд 29-608	88249459	О.Амжир
3	С.Баянмөрөн С.Очиртүвшин	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Баянхонгор 14-346	88775486	С.Баянмөрөн
4	О.Нуровжан	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	Баян 27-565А	887799-64	О.Нуровжан
5	Д.Сүмбэржав	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	Баянхонгор	88188815	Д.Сүмбэржав
6	З.Оюунбилэг	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Баянхонгор 11-318	91641585	З.Оюунбилэг
7	Д.Вүдэв Оролцогч	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Б.-29-638	39770808	Д. Вүдэв Оролцогч

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чагтална үү please check follow	Address/Xaap	Telephone Утас	Signature Гарын үсэг
8.	А.Бадарцур	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	14-р хороо Бэлх 53-4-2	94000200	
9	М.Цамх	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо 33-3-39	96008283	
10.	М.Дундговь	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо 20-4-90	882449997	
11.	М.Оюунбаатар	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо 35-6-42	88155297	
12	Б.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо 5-33-5-134	94933346	
13	Б.Цы.түвшин ОКО	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо 5-8-125	96092865	
14	М.Оюунбаатар	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 15-р хороо Хамнаа 7-275	9865-2350	
15	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	СБД 16-р хороо Бэлх 3-129	99692992	
16	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо Бэлх 3-15	89188032	
17	Б.Оюунбаатар	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	5-17-416	996099625	
18	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	5-18-436	88926015	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	5-16-328	91529730	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	2000-16-р хороо 50-8-162	91165320	

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чагтална үү please check follow	Address/Xaap	Telephone Утас	Signature Гарын үсэг
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо Бэлх 3-633	99982922	
	Б.Дундговь	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Өрх толгойлсон эмэгтэй	16-р хороо Бэлх 4-13-321	99370513	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Бэлх 33-4-59	88696854	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Бэлх 33-4-56	88663368	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	33-7-192	99831022	
	М.Дундговь	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Бэлх 33-6- -835	96405852	
		<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			
		<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			

## **Khoroo 24**

<b>Topic/Уулзалтын Сэдэв:</b> <u>Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох</u>		
<b>Noted by/Тэмдэглэл хөтөлсөн:</b> <u>Д.Мөнхөө</u>	<b>Reviewed/Тэмдэглэлтэй танилцсан:</b>	<b>№:</b> <u>06/17</u>
<b>Date/Огноо:</b> <u>29.11. 2017</u>	<b>Venue/Байршил:</b> <u>СХД-ийн 24-р хорооны иргэний танхим</u>	<b>Attendees/Оролцогчдын тоо:</b> <u>29</u>
<b>Facilitators/Зохион байгуулагчид:</b> <u>Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Ц.Цогзолмаа/НҮБ-Хабитат байгууллага, Нийгэмийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/</u>		
<b>Participants/Оролцогчид:</b> <u>СХД-ийн 24-р хорооны оршин суугчид</u>		
<b>Meeting purpose/Уулзалтын Зорилго:</b> <u>Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх</u>		

### **Processing/Явц:**

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэмийн ажилтан Ц.Цогзолмаа нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг асуудлуудаар бэрхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бүсдаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны дараа тэдгээрээс нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатай харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бүсдаа танилцууллаа. Иргэдийн энэ бэрхшээл, шийдвэрлэх асуудлаа тодорхойлох явцад тэдний орчинд үерийн үс айлын хашааруу орж ирдэг үүний улмаас жорлон хальдаг асуудал гардаг байна. Мөн 720 өрх жорлонгүй, гэрэл цахилгаангүй амьдардаг тухай ярьж байлаа.

### **Иргэдийн санал:**

**Иргэн:** Голын сав газар байдаг 720-иод өрх бие засах жорлонгүй тул хэсэг бүлгээр орчиноо бохирдуулахгүй жорлонтой болгох ажил хиймээр байна.

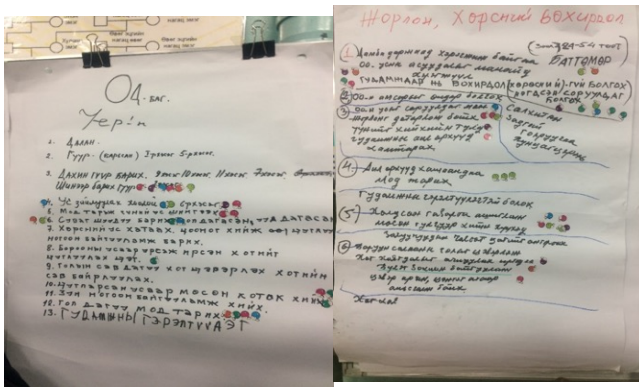
**Иргэн:** 2, 7, 9 болон 10-р хэсгийн тодорхой газруудад гүүр шаардлагатай байгаа.

**Иргэн:** Манай энд намаг шалбааг ихтэй тул гүүр, замын ажилхийх шаардлагатай байна. Мөн

Гол горхины хамгаалалтыг хиймээр байна. Хаягжилт болон гудамжны зохион байгуулалт мүү байдаг

### **Photo/Зураг:**





**Attendance/Ирцийн бүртгэл:**

Улаанбаатар хотын эрх зориллогыг хөгжүүлэх, хөрөнгө орлого, амьдралыг дэмжих хөтөлбөр  
 ULAANBAATAR URBAN SERVICES AND GER AREAS DEVELOPMENT INVESTMENT PROGRAM  
 Иргэдийн оролцоо, жижиг дунд бизнесийг хөгжүүлэх зөвлөх үйлчилгээ  
 Community Engagement and SME Development

Meeting topic/Уулзалтын нэр: Үерээс хамгаалах асуудал  
 Venue/ Хаана: 24-р хороо  
 Date/ Огноо: 2017-11-29

Attendance/ Иргэдийн бүртгэл

No	Name Нэр	Хүйс Sex	Өвгд хамгаалахтай ангилалаа чатална үү please check follow	Address/Xaar	Утас Telephone	Гарын үсэг Signature
1	Дундговь	Эр	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Сэлэнгэ дүүргийн 1-р хороо	74982415	[Signature]
2	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	89990 806	[Signature]
3	Р.Оюун-норов	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	89806354	[Signature]
4	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	86219950	[Signature]
5	Б.Батбаяр	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88273748	[Signature]
6	М.Батбаяр	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88895453	[Signature]
7	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	8878570	[Signature]

No	Name Нэр	Хүйс Sex	Өвгд хамгаалахтай ангилалаа чатална үү please check follow	Address/Xaar	Telephone Утас	Signature Гарын үсэг
8	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88898852	[Signature]
9	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88691270	[Signature]
10	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	89085149	[Signature]
11	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	89800079	[Signature]
12	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88183907	[Signature]
13	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	94605594	[Signature]
14	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88153419	[Signature]
15	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88374535	[Signature]
16	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	95013439	[Signature]
17	Дундговь	Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	24-р хороо Хамгаалах дүүргийн 1-р хороо	88651415	[Signature]
		Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			
		Эр	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй			

## Khoroo 25

Topic/Уулзалтын Сэдэв: Үерээс хамгаалах чадавхийг бэхжүүлэхэд иргэдийн асуудал хэрэгцээг тодорхойлох



<b>Noted by/Тэмдэглэл хөтөлсөн:</b> <u>Д.Мөнхөө</u>	<b>Reviewed/Тэмдэглэлтэй танилцсан:</b>	<b>№: 07/17</b>
<b>Date/Огноо:</b> 14.12. 2017	<b>Venue/Байршил:</b> СХД-ийн 25-р хорооны иргэний танхим	<b>Attendees/Оролцогчдын тоо:</b> 34
<b>Facilitators/Зохион байгуулагчид:</b> <u>Ш.Энхцэцэг/НҮБ-Хабитат, Төслийн менежер/, Н.Золзаяа/НҮБ-Хабитат байгууллага, Нийгэмийн мэргэжилтэн/, Н.Наранбат/НҮБ-Хабитат байгууллага, Хот төлөвлөгч/</u>		
<b>Participants/Оролцогчид:</b> <u>СХД-ийн 25-р хорооны оршин суугчид</u>		
<b>Meeting purpose/Уулзалтын Зорилго:</b> <u>Тухайн газар нутгийн үер усны аюултай газар нутаг болон түүнтэй холбоотой иргэдэд үүсдэг асуудал бэрхшээлийг тодорхойлох, эрэмбэлэх, зурагт тэмдэглэх</u>		

#### **Processing/Явц:**

Уулзалтыг НҮБ-Хабитат байгууллагын Нийгэмийн ажилтан Н.Золзаяа нээж уулзалтын зорилго болон төслийн тухай товч танилцуулга хийлээ. Үүний дараа Уур амьсгалын өөрчлөлтийн талаар мэдээлэл хийлээ. Энэхүү мэдээллийн дараа нийт оролцогчид 3 бүлэгт хуваагдаж цаг уурын өөрчлөлттэй холбоотойгоор иргэдэд тулгардаг асуудлуудаар брхшээлтэй асуудлуудаа тодорхойллоо. Бүлэг бүрээс төлөөлөлөө сонгож тодорхойлсон асуудал бэрхшээлээ бүсдаа танилцууллаа. Нийт оролцогчид бүлэг бүрийн тодорхойлсон асуудал бэрхшээлийг сонссоны дараа тэдгээрээс нэн түрүүнд шийдвэрлэвэл зохих асуудал бэрхшээлээ эрэмбэллээ. Ингэж нэн тэргүүнд шийдвэрлэх шаардлагатай бэрхшээлээ эрэмбэлж гаргасны дараа тэд дахин бүлгийн ажилд оролоо. Оролцогчид бүлэг бүлгээрээ дээрх эрэмбэлсэн бэрхшээлүүдээ шийдвэрлэхийн тулд ямар ажил хийх шаардлагатайг харилцан ярилцаж мөн хамгийн түрүүнд хийх шаардлагатай ажлуудаа эрэмбэллээ. Мөн тэд нэн тэргүүнд хийх шаардлагатай ажлуудаа бүсдаа танилцууллаа. Иргэдийн энэ бэрхшээл, шийдвэрлэх асуудлаа тодорхойлох явцад тэдний орчинд үерийн үс айлын хашааруу орж ирдэг үүнийг улмаас жорлон хальдаг асуудал гардаг байна.

#### **Иргэдийн санал:**

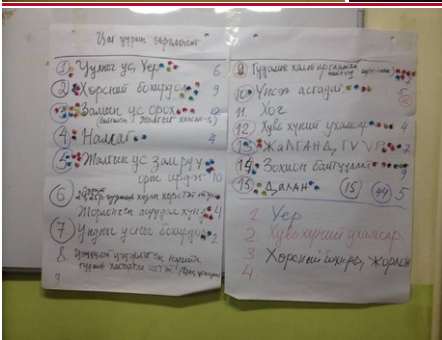
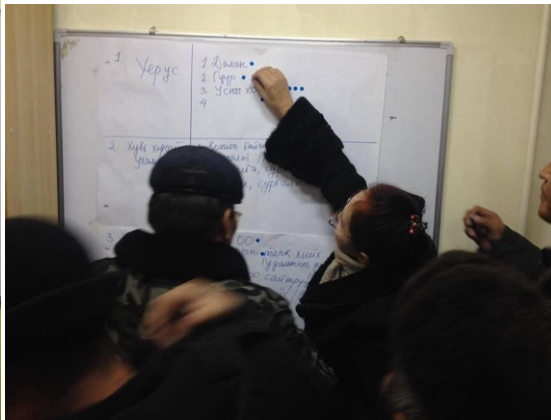
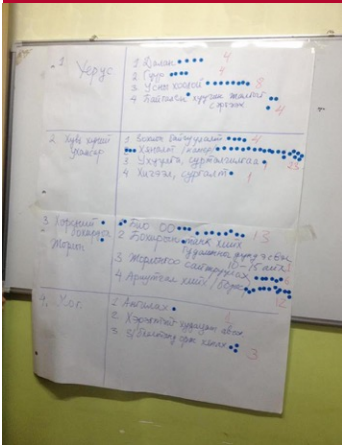
**Иргэн:** Иргэд үер усны аюулаас хамгаалах наад захын аргуудыг мэдэж байх хэрэгтэй байна. Ямар нөхцөлд оршин амьдрах нь иргэдээс өөрсдөөс нь шалтгаалах зүйл маш их бий. Иймд сургалт мэдээлэл хэрэгтэй байна.

**Иргэн:** Манай хороон дээр далан шүүдүү барих шаардлага байгаа. Бас манай хороон дээр гүүр барих шаардлага байгаа. Төслийн та бүхэн үүнийг бас харгалзаж үзээрэй.

**Иргэн:** Манай хэсэг дээр үер болдог. Үерийг өөр тийш нь зайлуулж үрсгах шаардлага байгаа. Иргэд цэцэрлэгжүүлж мод бут тарих ажлыг өөрсдөө хийх боломжтой. Иргэд бас өөрсдөөсөө шалтгаалах зүйлийг хийцгээе.

**Иргэн:** Хогийг ангилдаг болмоор байна. Голын эрэг дагуу хогийн сав байрлуулж гудамжны гэрэлтүүлэг тавих нь хяналт тавихад хэрэгтэй байна.

#### **Photo/Зураг:**



**Attendance/Ирцийн бүртгэл:**

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: Үерийн улмаас оршин суугчдад тулгарч буй бэрхшээлийг тодорхойлох, эрэмбэлэх

Venue/ Хаяг: 25-р хороо, CVB

Date/ Огноо: 2017-12-14 14:00 цагт

Attendance/ Иргэйн бүртгэл

No	Name Нэр	Хүйс Sex	Верт хэмжээтэй ангилалаа чагтаана уу please check follow	Address/Хаяг Position/Ажил	Утас Telephone	Гарын үсэг Signature
1	У.Сэлүүр У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Богдосон хотон Хайрхан 9-328	95176101	У.Сэлүүр
2	С.Агуудорж	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ондор настан Хайрхан-11-91	89689909	С.Агуудорж
3	У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ондор настан Хайрхан 11-91	88707239	У.Сэлүүр
4	У.Сэлүүр У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	У.Сэлүүр Огноо 23-27	982391	У.Сэлүүр
5	У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан-9-20	80292115	У.Сэлүүр
6	У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 9-20		У.Сэлүүр
7	У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Огноо 6-30	864546	У.Сэлүүр
8	У.Сэлүүр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Ондор настан <input type="checkbox"/> Хөдөлмөр бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Огноо 81-179	8891165	У.Сэлүүр

No	Name Нэр	Sex Хүйс	Өдөр, сэтгэлтэй ангилалаа чиглэлн үү please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
9	Эрдэмт	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X. 7. 170	88712906	Эрдэмт
10	Осех Баяр	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X-6-2	99590939	Осех
11	Чаграл	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	(X)-Өрх-4 0-21-195	99745744	Чаграл
12	Бүрэншар	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X15-30	9180203	Бүрэншар
13	Носон	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X15-49	8686862	Носон
14	Мугу	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X1-80	99191053	Мугу
15	Франзаса	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X1-61	89400605	Франзаса
16	Сүрэгдүүтүү	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X1-14	99963026	Сүрэгдүүтүү
17	Томор-Оюу	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X7-229	98942424	Томор-Оюу
18	С. Сүрэгдүүтүү	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 7-44	88898705	С. Сүрэгдүүтүү
19	Х. Бамбаагарт	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	адагч 5-12-607	95220889	Х. Бамбаагарт

20	Нсоот	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан Орхон 21-47	9789947	Нсоот
21	О. Кислэр	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 11-45	88754720	О. Кислэр
22	Айлаафам	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 11-45		Айлаафам
23	А. Энхназ	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Орхон 1-1	88683815	А. Энхназ
24	Намгын	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан Өрхон 28-45	99054720	Намгын
25	М. Сан	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 2-817	91766664	М. Сан
26	С. Хайрханд	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Хайрхан 2-311	91009097	С. Хайрханд
27	А. Бүрэншар	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X-11.32 XA-9	9968501	А. Бүрэншар
28	А. Тугал	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	X-20.1 XA-1	99149869	А. Тугал
29	Б. Франзаса	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	Ө. 25.25 XA-12	99860436	Б. Франзаса
30	Намг	<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баримттай <input type="checkbox"/> Өрх толгойлсон эмэгтэй	О. 21.92	99605787	Намг

No	Name Нэр	Sex Хүйс	Өөрчлөлттэй ангилалаа чиглэлнэ үү please check follow	Address/Xaer	Telephone утас	Signature Гарын үсэг
31	Бүрхтэс	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хэлхийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	х17-58	88987707	Лайм
32	Алтантүвш	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хэлхийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	х17-58		Алтантүвш
33	Чиндбол Бүтд	<input checked="" type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хэлхийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	024-54	98442210	Чиндбол
34	Мамучин	<input type="checkbox"/> эр <input checked="" type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хэлхийн бэрхшээлтэй <input type="checkbox"/> Өрх толгойлсон эмэгтэй	08-20	96764949	Мамучин
		<input type="checkbox"/> эр <input type="checkbox"/> эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хэлхийн бэрхшээлтэй			4р хтсн



## Round 2: Community prioritization of possible resilience building interventions

### Khoroo 7

#### Community Leaders



Name: Туяа  
Position: Resident  
Address: Khoroo: 7th khoroo 3-28  
District: Songinokhairkhan  
Mobile: .....  
Signature \_\_\_\_\_/signed/



Photo

Name: Пүрэв-Очир  
Position: Resident  
Address: Khoroo: 7th khoroo, Mon-Laa 12-47  
District: Songinokhairkhan  
Mobile: 88095746, 99764790  
Signature \_\_\_\_\_/signed/



Name: Otgondavaa

Position: .Resident.

Address: Khoroo: .7th khoroo, 29-120b

District: Songinokhairkhan

Mobile: ...89030612.....

Signature \_\_\_\_\_/signed/

<u>Most problematic climatic hazard</u>	<u>Problems</u>
<u>Flood</u>	Due to floods the roads get damaged and cracked. People especially children and old fall to the cracks and get injuries. Wooden and felt structures of ger and houses such as floor and walls get easily worn out due to regular interaction with the muddy surface. Due to floods the roads get damaged and cracked. People especially children and old fall to the cracks and get injuries.
<u>Overheat</u>	Due to overheat, people especially children and old have a sunstroke and increased flood pressure.
<u>Soil polution</u>	Rainfall water sweeps up all the garbage in the gullies and brings to the catchment area. This often results in soil pollution with the potential risk of danger from hazardous waste. Drinking water from wells gets polluted.
<u>Street planning</u>	Difficult to access for police, fire and ambulance due to poor addressing system. Poor access to road due to lack of proper street planning.
<u>Toilet</u>	Pit latrines and waste water disposal holes get filled up easily with rainfall water and overflowed contents pollute the surrounding area while creating health risks to the people.
<u>Muddy road</u>	Due to muddy and rocky road conditions, the cars often get damaged. Shoes and clothes of people especially children easily get deteriorated Have to buy often soil and gravel to put onto mud.

#### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard</u>	<u>What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them)</u> <u>In what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
<u>1. Flood</u>	—	<u>1</u>
<u>2. Soil polution</u>	—	<u>3</u>
<u>Toilet</u>	—	<u>2</u>



<u>Muddy road</u>	-	<u>3</u>

### Interventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>
<u>1. Flood</u>	<u>1.1 Construction of flood control facilities including drainage, embankment, ditches and installation of culverts.</u> <u>1.2 Construction of bridges over big gullies and river basin area.</u> <u>1.3 Connect households and businesses to the central and local sanitation systems</u> <u>1.4 Divert the stream of surface runoff into the Baruun Salaa River</u> <u>1.5 Community flood resilience building activities through community mobilization, organization and training</u> <u>1.6 Train the communities in flood protection, mitigation and adaptation capacities</u> <u>1.7 Organize neighborhoods into self-help groups with common goal of building flood resilience and helping each other</u>	
<u>2. Toilet</u>	<u>2.1 Construction of septic tanks shared within 5-8 Households</u> <u>2.2 Improvement of sewerage system</u> <u>2.3 Learning from international and national good experiences</u> <u>2.4 Share experiences between communities and learn from others</u> <u>2.5 Improve landscaping of the streets</u> <u>2.6</u>	<u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u>
<u>3. Soil pollution</u>	<u>3.1 Learning from international and national good experiences</u> <u>3.2 Landscaping of the streets</u> <u>3.3 Organize activities to improve water absorption capacity of soil such as planting trees</u> <u>3.4 Improve pit latrines and waste water disposal pits of households using the ways to prevent the pits from flooding by surface water and make them safer for water quality of ground water tabl</u>	<u>3</u> <u>1</u> <u>2</u> <u>3</u>
<u>4. Muddy road</u>	<u>4.1 Establish a surface water reservoir using the natural springs and streams</u> <u>4.2 Improve landscaping of the streets</u> <u>4.3 Organize activities to improve water absorption capacity of soil such as planting trees and pumping the excess stagnant surface water</u>	<u>1</u> <u>2</u> <u>3</u>

## Khoroo 9

### Community Leaders



Name: Bayarsaikhan

Position: Kheseg leader

Address: Khoroo: Khoroo-9, Sharkhad 23-348

District: Bayanzurkh

Mobile: 88639783

Signature \_\_\_\_\_



Name: Mungunbumba

Position: \_\_\_\_\_

Address: Khoroo: Khoroo-9, Shar khad 62-920b

District: Bayanzurkh

Mobile: 88948228

Signature \_\_\_\_\_



Name: Enkhdolgion

Position: Kheseg leader

Address: Khoroo: Khoroo-9, Shar khad 58-810

District: Bayanzurkh

Mobile: 88819961

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Name: Khishigjargal

Position: Kheseg leader

Address: Khoroo: Khoroo-9, shar khad 64-947

District: Bayanzurkh

Mobile: 80832054

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#### Problems

1. Flood
2. Permafrost
3. Garbage track take garbage not enough
4. Residents threw the garbage and gray water in to gully and drainage
5. Pit laterine over flow due to rain
6. Air pollution
7. Slipery
8. Marsh
9. Water kiosk is far
10. Lack of the land adjustment
11. Households settled in wrong place without permission
12. Lack of the street light
13. Road without drainage
14. Water kiosk threw the water in to street
15. Street light

#### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard problems</u>	<u>What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them) in what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
<u>1. Flood</u>	<u>Without dam and drainage</u>	<u>3</u>
<u>2. Permafrost</u>	<u>Depends on ground water</u>	
<u>3. In despite of garbage truck take garbage not enough</u>	<u>Track come to khoroo to take garbage once a month</u>	
<u>4. Residents throw the garbage and gray water into gully and drainage</u>	<u>- Track come to khoroo to take garbage once a month while household's garbage box are over flow</u> <u>- Lack of the awareness of residents</u>	
<u>5. Pit laterine overflow due to rain</u>	<u>The rain water from hill side to inflood to pit laterine due to without drainage</u>	<u>1</u>
<u>6. Air pollution</u>		<u>2</u>
<u>7. Slipery</u>	<u>- Residents threw the gray water in the streets</u> <u>- Residents are irresponsibility</u>	
<u>8. Marsh</u>	<u>Depends on ground water</u>	
<u>9. Water kiosk is far</u>		
<u>10. Lack of the land adgustment</u>	<u>Depends on land department of district</u>	
<u>11. Households settled in wrong place without permission</u>	<u>Residents are irresponsibility</u>	
<u>12. Lack of the street light</u>		<u>4</u>
<u>13. Lack of drainage along roads</u>		
<u>14. Water kiosk threw the water into street</u>		

#### Inverventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>
<u>1. Soil pollution due to pit laterine overflow during the rain</u>	<u>1.1 Install security cameras to find people who throw waste</u> <u>1.2 Install warming board</u> <u>1.3 Increase garbage truck number</u> <u>1.4 Organise advocation work for residents' awareness</u> <u>1.5 Plant trees</u> <u>1.5 Find best solution of pit laterine</u> <u>1.6 Construct septic tank between the 2 households</u>	<u>3</u>  <u>2</u> <u>1</u>  <u>3</u>
<u>2. Air pollution</u>	<u>2.1 Sort and resycle waste of the Tsagaandavaa which is burn waste point</u> <u>2.2 Increase insulation of each houses</u> <u>2.3 Support the organizations which are working against air pollution</u> <u>2.4 Develope new solution of heating/gas, eco fuel /</u> <u>2.5 Support poor families through the social welfare for heat</u> <u>2.6 Create electric from gray and rain water</u> <u>2.7 Make discount for apartment advance</u> <u>2.8 Supply electric heating equipment to households with discount</u>	   <u>3</u>   <u>2</u> <u>1</u>

<u>3. Flood due to with-out drainage and dam</u>	<u>3.1 Threw soil into muddy area</u> <u>3.2 Costruct dam and drainage</u> <u>3.3 Construct drainage where water collection place</u> <u>3.4 Increase awareness among the people, drainage and culvert block with waste</u>	<u>2</u> <u>1</u> <u>3</u> <u>4</u>
<u>4. Street light</u>		

## Khoroo 12

### Community Leaders



Name: Uranber

Position: Kheseg leader

Address: Khoroo: Khoroo-12, Khangai 23-503b  
District: Sukhbaatar district

Mobile: 88811253

Signature \_\_\_\_\_



Name: Ganzorig

Position: Resident

Address: Khoroo: Khoroo-12,  
District: Sukhbaatar district

Mobile: 99172087

Signature \_\_\_\_\_



Name: Altangerel

Position: Member of Resident's representative khural

Address: Khoroo: Khoroo-12, Khangai 21-785b  
District: Sukhbaatar district,

Mobile: 99252094

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Name: Khosbagana

Position: Resident

Address: Khoroo: Khoroo-12, Khangai 17-693b

District: Sukhbaatar district

Mobile: 91168117

Signature \_\_\_\_\_

Problems
1. Flood
2. Rain water come from road to plots
3. Marsh
4. Waste are come to plot by flood
5. Due to inflood pit laterine over flow through the flood
6. Ground water over flow
7. Families trew the gray water in the street
8. Children impossible to play outside
9. Flood come in to home
10. Air pollution
11. Short circuit due to damage the during the rain
12. Rivers flow with waste
13. Elder's blood pressure increase due to extreme hot
14. The foundation of the buildings break during the winter

### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard</u>	<u>4) What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them)</u> <u>5) in what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
<u>1. Flood</u>		<u>1</u>
<u>2. Rain water come from road to plots</u>	<u>Roads are created without drainage and culvert</u>	
<u>3. Mars</u>	<u>Residents threw the soil in to marsh</u>	
<u>4. Waste are come to plot by floodh</u>	<u>- Residents lack of responsibility</u> <u>- Khoroo and kheseg leaders conduct waste clean activity regularly</u>	
<u>5. Soil pollution. Due to inflood pit laterine over flow through the flood</u>	<u>- Some of residents settled hill area, in this area cannot dig well pit laterine due to rock</u> <u>- Residents haven't any other solution than current pit laterine</u>	<u>2</u>
<u>6. Ground water over flow</u>	<u>Lands are allocated in river basin</u>	
<u>7. Families trew the gray water in the street</u>	<u>- Families haven't yet sewerage pit</u> <u>- Lack of the residents awarness and responsibility</u>	
<u>8. Children impossible to play outside</u>	<u>- Families trew the gray water in the street</u> <u>- Lack of the residents awarness and responsibility</u>	
<u>9. Flood come in to home</u>	<u>- Lack of the drainage and culvert</u>	
<u>10. Air pollution</u>	<u>Every households heat by stove with coal</u>	<u>3</u>
<u>11. Short circuit due to damage the electric line during the rain</u>	<u>Residents use not quality cabel</u>	
<u>12. Rivers flow with waste</u>	<u>Residents trew the garbage in to river and gully</u>	
<u>13. Health issue. Elder's blood pressure increases due to extreme hot and some disease due to soil pollution</u>	<u>- Extremely hot in summer</u> <u>- Disease couosed by soil pollution</u>	<u>4</u>
<u>14. The foundation of the buildings break during the winter</u>	<u>- Families settled in marsh area, then freeze in winter</u> <u>- Families repaire the house every summer</u>	

### Inverventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>
<u>1. Flood</u>	<u>1.1 To create drainage to remove the water inside plot from each plot</u> <u>1.2 To build the street road with drainage</u> <u>1.3 To install the pipe to remove the soil water</u> <u>1.4 Need the any solution to remove the crowded water inside plot after rain</u>	<u>2</u>     <u>1</u> <u>3</u> <u>4</u>
<u>2. Soil pollution</u>	<u>2.1 To raise and the pit laterine edge</u> <u>2.2 Improve the drainage and street road</u> <u>2.3 To creat the drainage in each plot</u> <u>2.4 To create the sewerage pit in each plot</u> <u>2.5 To monitor the families that trew the gray water in to street</u>	<u>5</u> <u>4</u> <u>2</u> <u>1</u> <u>3</u>
<u>3. Air pollution</u>	<u>3.1 To connect the heating central line</u> <u>3.2 Change the schedule of night discount of electric</u> <u>3.3 To create the imprastructure among the 10-20 families</u> <u>3.4 To developpe the brick fuel</u>	<u>4</u> <u>2</u>   <u>1</u> <u>3</u>
<u>4. Healt issue related to extreme hot and</u>		

### Khoroo 13

#### Community Leaders



Name: Ariuntungalag

Position: Kheseg leader

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District: Sukhbaatar

Mobile: 99717222

Signature \_\_\_\_\_



Name: Byambasuren

Position: Kheseg leader

Address: Khoroo: 13, Nогоон talbai 6-43

District: Sukhbaatar

Mobile: 80207714

Signature \_\_\_\_\_



Name: Enkhsaikhan

Position: Kheseg leader

Address: Khoroo: 13, Rashaanii 5-281

District: Sukhbaa-  
tar

Mobile: 88178860

Signature \_\_\_\_\_



Photo

Name: Usukhbayar

Position: Kheseg leader

Address: Khoroo: 13, Rashaanii 1-144

District: Sukhbaatar

Mobile: 89446565

Signature \_\_\_\_\_



Name: Enkhee

Position: Kheseg leader

Address: Khoroo: 13,

District: Sukhbaatar

Mobile: 88786134

Signature: \_\_\_\_\_

<u>Most problematic climate hazard</u>	<u>Problems</u>
<u>Flood</u>	<u>1. Flood, depends on geographically low level</u>
<u>Flood</u>	<u>2. Water of soil in river basin</u>
<u>Flood</u>	<u>3. Flood due to lack of drainage and pipe along the river</u>
<u>Flood</u>	<u>4. Muddy due to natural gully directions are changed</u>
<u>Flood</u>	<u>5. Main road culvert pit blocked</u>
<u>Flood</u>	<u>6. Spring erupted in the plot</u>
<u>Flood</u>	<u>7. Flood due to uncontrolled land allocation</u>
<u>Flood and soil pollution</u>	<u>8. Flood drainage blocked due to waste</u>
<u>Flood and soil pollution</u>	<u>9. Natural gully is blocked due to construction waste</u>
<u>Soil pollution</u>	<u>10. Pit latrine overflow depends on soil water level is high</u>
<u>Air pollution</u>	<u>11. Air pollution</u>
<u>Slippery</u>	<u>12. Slippery</u>

### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard</u>	<u>What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them)</u> <u>in what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
1. Flood, depends on geographically low level	- Water of soil in river basin - Spring erupted in the plot - Uncontrolled land allocation	
2. Water of soil in river basin	- Due to high ground water level, pit laterine easely over flow - Pit laterines fill over due to flood in to pit laterine	
3. Air pollution	- Smoke - Dust - Changed the stove - Tree planting	<u>6</u>
4. Slippery	- Residents throw the gray water in the street - Location is geographically slope - Residents throw the ash on the ice	
5. Flood due to lake of drainage and pipe along the river	- Now days roads generally have been built without drainage and culvert	<u>2</u>
6. Maddy and marsh due to nature gally and drainage directions are changed	- Lack of the awareness of residents	<u>1</u>
7. Main road culvert pit blocked	- Residents threw the waste in to gully - Khoroo and residents clean the culvert	<u>3</u>
8. Spring erupted in the plot	- Families settled in not right place geographically	
9. Flood due to uncontrolled land allocation	- Families are settled in not right place geographically	
10. Flood drainage blocked due to waste	- Residents threw the waste in to gully	
11. Natural gully is blocked due to construction waste	- Construction company throw the construction waste in to gully and river basin	<u>5</u>
12. Pit laterine over flow	- Soil water level is high - Flood water supply in to pit laterine	<u>4</u>

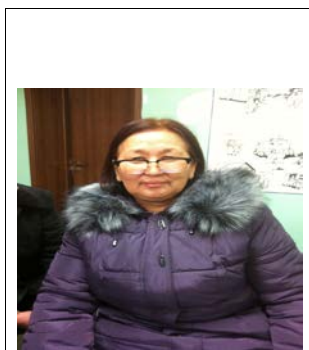
### Inverventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>
<u>1. Maddy and marsh due to nature gally and drainage directions are changed</u>	<u>1.1 Improve the residents awareness and attitude</u> <u>1.2 Land readjust the families settled on the natural gully</u> <u>1.3 To cooperate with khoroo and land investor</u>	<u>3</u> <u>1</u> <u>2</u>
<u>2. Flood due to lake of drainage and pipe along the road</u>	<u>2.1 Extend and build drainage and culvert along the road</u> <u>2.2 Improve the existing drainage and culvert</u>	<u>2</u> <u>1</u>
<u>3. Main road culvert pits are blocked by waste</u>	<u>3.1 Install security camera and street light</u> <u>3.2 To sort and recycle the waste</u> <u>3.3 To improve the sense of responsibility of residents</u> <u>3.4 To find when to put the garbage in the street</u>	<u>1</u> <u>2</u> <u>2</u> <u>3</u>
<u>4. Pit laterine over flow</u>	<u>4.1 Change the toilet by bio latrine</u> <u>4.2 To connect to the sewerage network</u> <u>4.3 To support the families in low livelihood level</u>	<u>3</u> <u>1</u> <u>2</u>
<u>5. Natural gully is blocked due to construction waste</u>	<u>5.1 To find when and what company threw the garbage in the gully</u> <u>5.2 To clean the point of the garbage and creat the green area in that place</u> <u>5.3 To improve the sense of responsibility of company</u> <u>5.4 To fine</u>	<u>4</u> <u>2</u> <u>3</u> <u>1</u>
<u>6. Air pollution</u>	<u>6.1 To connect the heating network</u> <u>6.2 To use the solar panel</u>	



## Khoroo 16

### Community Leaders



Name: Enkhtsetseg

Position: Kheseg leader

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District: Sukhbaatar

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Name: Oyuntsetseg

Position: Community patrol

Address: Khoroo: Khoroo-16, Belkh 8-129

District: Sukhbaatar

Mobile: 88138815

Signature \_\_\_\_\_



Name: Yanjmaa

Position: Kheseg leader

Address: Khoroo: khoro-16, Belkh 18-436

District: Sukhbaatar

Mobile: 88926015

Signature \_\_\_\_\_



Name: Chuluunsuren

Position: Eco investor

Address: Khoroo: khoro-16, Belkh 8-125

District: Sukhbaatar

Mobile: 96092363

Signature \_\_\_\_\_

<u>Problems</u>
<u>1. Flood</u>
<u>2. Marsh</u>
<u>3. Snow couased flood</u>
<u>4. Lack of drainage and culvert</u>
<u>5. Drainage and culverts are blocked with waste</u>
<u>6. Pit laterines overflow</u>
<u>7. Households settled on gully</u>
<u>8. Rain water inflood to plots</u>
<u>9. Flood collection</u>

#### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard</u>	<u>6) What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them)</u> <u>7) in what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
<u>1.Flood</u>	- Rain water come to plots from mountain part - Lack of drainage and culvert along road - Drainage and culvers block with waste - Households settled on gully	<u>1</u>
<u>2.Soil pollution</u>	- Residents threw waste into gully and drainage - Pit latrine overflow	<u>1</u>
<u>3.Waste issue</u>	- Drainage and culverts are blocked with waste - Residents threw waste into gully - Lack of awareness among people	<u>2</u>

#### Interventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>

<u>1. Flood</u>	<u>1.1 Construct drainage between road and mountain side</u>	<u>1</u>
	<u>1.2 Construct and improve drainage along roads</u>	<u>3</u>
	<u>1.3 Construct drainage and culvert in each street</u>	<u>2</u>
	<u>1.4 Cooperate with emergency management agency, land department and khoroo officials for resettlement to move families settled on gully</u>	<u>5</u>
	<u>1.5 Advocacy work on not throw garbage into gully</u>	
	<u>1.6 Construct bridge on the river</u>	<u>4</u>
<u>2. Soil pollution</u>	<u>1.6 Install warning board</u>	<u>6</u>
	<u>2.1 Improve pit latrine</u>	
	<u>2.2 Find solution and technology for pit latrine</u>	<u>2</u>
	<u>2.3 Construct septic tank among 10-20 households</u>	<u>3</u>
	<u>2.4 Connect to sewerage network</u>	
<u>3. Waste issue</u>	<u>2.5 Construct pit latrine with concrete lining</u>	<u>1</u>
		<u>4</u>
	<u>3.1 Sort and recycle waste</u>	<u>1</u>
	<u>3.2 Increase awareness among the people</u>	<u>3</u>
	<u>3.3 Install security camera to find and monitor people who throw waste</u>	<u>2</u>

## Khoroo 24

### Community Leaders



Name: Ya. Puntsagtseren

Position: Resident

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District: Songinokhairkhan

Mobile: 9448-2213

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Name: Battumur

Position: Resident

Address: Khoroo: Zeel -24-54, 24th khoroo

District: Songinokhairkhan

Mobile: 88631415

Signature \_\_\_\_\_/signed/



Name: Oyun-Erdene

Position: Kheseg leader

Address: Khoroo: Zeel 29-46, 24th khoroo

District: Songinokhairkhan

Mobile: 8980-6079

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Name: N. Shoovdor

Position: Resident

Address: Khoroo: Zeeliin zadgai, 24th khoroo

District: Songinokhairkhan

Mobile: 99981270, 88691279

Signature \_\_\_\_\_/signed/

<u>Most problematic climatic hazard</u>	<u>Problems</u>
<u>Soil pollution</u>	<ol style="list-style-type: none"> <li>1. Each plots have toilets</li> <li>2. Contaminated of the water supply</li> <li>3. No toilet about 720 households</li> </ol>
<u>Flood</u>	<ol style="list-style-type: none"> <li>1. To outflow water from mountain</li> <li>2. Street cover water</li> <li>3. Come out latrine on land</li> <li>4. Land sliding</li> <li>5. Failed traditional gers and plots</li> <li>6. Үерт автаж урсах</li> </ol>
<u>Using water gravel</u>	<ol style="list-style-type: none"> <li>1. People took using water gravel</li> </ol>
<u>Stray dog</u>	<ol style="list-style-type: none"> <li>1. bite to dog</li> </ol>
<u>To low river's level</u>	<ol style="list-style-type: none"> <li>1. To get soil without unlicensed</li> <li>2. To throw wastes to along to river</li> </ol>
<u>Water pollution</u>	<ol style="list-style-type: none"> <li>1. About 720 households no toilet which is affected clean water of water.</li> </ol>
<u>Air pollution</u>	<u>Stove and car smokes are increasing</u>
<u>Street muddy</u>	<ol style="list-style-type: none"> <li>1. After rain and snow all street become muddy along to river. People can't go there.</li> </ol>
<u>Overcentralization</u>	<ol style="list-style-type: none"> <li>1. From 3-4 years ago new households who affected re-planning are settled in along to river.</li> </ol>
<u>Issues of Latrine</u>	<ol style="list-style-type: none"> <li>1. 720 households no toilet</li> </ol>
<u>Sliding</u>	<u>Land is very marshland due to become sliding cold days and muddy in warm days</u>
<u>Solid waste</u>	<u>Waste track can't go muddy road therefore households throw their solid wastes to street.</u>
<u>Concentrations due to the preplanning of other parts of the city</u>	<u>Too much centralization along to river.</u> <u>Хэтэрхий их төвлөрөлийг би болгож байгаа</u>
<u>Street planning</u>	<ol style="list-style-type: none"> <li>3. Police, fire and ambulance can't find households due to poor addressing system.</li> <li>4. Poor access to road due to lack of proper street planning.</li> </ol>
<u>Power /electricity/</u>	<u>Around 720 households no electricity</u>

### The magnitude of barriers to adaptation

<u>Most problematic climatic hazard</u>	<u>8) What is currently limiting your community from coping with or adapting to the impacts? (What makes it difficult for you to deal with them or makes it difficult to make changes to deal with them)</u> <u>9) in what ways has your community already adapted to deal with these issues?</u>	<u>Ranking most important factors</u>
<u>1. Flood</u>	<ul style="list-style-type: none"> <li><u>some dam is built by government</u></li> <li><u>still have problem</u></li> </ul>	<u>1</u>
<u>2. Issues of Latrine and soil pollution/Toilet/</u>	<ul style="list-style-type: none"> <li><u>didn't do anything now, no finance</u></li> <li><u>Still have problem</u></li> </ul>	<u>2</u>
<u>3. Street planning</u>	<ul style="list-style-type: none"> <li><u>didn't do anything now</u></li> <li><u>still have problem</u></li> </ul>	<u>3</u>

### Interventions / Activities

<u>Most problematic climatic hazard</u>	<u>Intervention/activity and/or infrastructure</u>	<u>Ranking most important activity and/or infrastructure</u>
<u>1. Flood</u>	<u>1.8 to build Dam</u> <u>1.9 to build Bridge</u> <u>1.10 to do water drainage /6th kheseq and along the river</u> <u>1.11 Tree planting</u> <u>1.12 To collect soil water in hole or any big container use to another usefull thing</u> <u>1.13 Gardening</u> <u>1.14 To build new garbage center for flood</u> <u>1.15 To install rabbish bins and to clean near the river.</u> <u>1.16 To do ice rink using collection water in winter.</u> <u>1.17 To install street light</u>	<u>7</u> <u>6</u> <u>4</u> <u>5</u> <u>1</u> <u>2</u> <u>8</u> <u>9</u> <u>3</u> <u>10</u>
<u>2. Issues of Latrine and soil pollution</u>	<u>2.7 Septic tank with 5-8 household or street</u> <u>2.8 Tree planting in flots</u> <u>2.9 To form primary groups together clean near the river</u> <u>2.10 To establish community center for youth and children uses community resource along the river</u> <u>2.11 Street light</u>	<u>1</u> <u>2</u> <u>3</u> <u>4</u> <u>5</u>
<u>3. Street planning</u>	<u>3.1 To built new technology latrine for 720 households located river basin.</u> <u>3.2 To become power for 720 households located river basin.</u> <u>3.3 To build bridge and foothpath work</u>	<u>1</u> <u>2</u> <u>3</u>

### Round 3: Documentation of risk screening and impact assessment workshops of core interventions in target Khorroos

	SHD 7		BZD9		
<u>Attendance</u>	<u>6: 3 male and 3 female; 2 elderly, 2 disabled, 2 parents of school children</u>		<u>8: 3 male and 5 female; 1 parent with school age child; 3 elderly</u>		
<u>Proposed Intervention</u>	<u>Drainage</u>	<u>Resilient sanitation delivery</u>	<u>River Embankment</u>	<u>Drainage</u>	<u>Resilient sanitation delivery</u>
<u>Specific concerns</u>	<ul style="list-style-type: none"> <li>• <u>It would create a danger for children and animals to fall into open drainage</u></li> <li>• <u>It would create complication for implementation if drainage is planned crossing over settlement including houses</u></li> <li>• <u>There will be crossing issue over on the ground drainage for vehicle and population movement including disabled, elderly and others</u></li> <li>• <u>Construction of drainage may get difficult due to current settlement</u></li> <li>• <u>To check if underground high voltage lines are in the area of development</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>It was observed that the low income HHs which were receiving support and subsidy all the time get used to the support and tend to not take any post responsibility comes with the support</u></li> <li>• <u>It would be better to select HHs who are socially active in the communities' work to encourage them further or select elderly HHs</u></li> <li>• <u>The toilet is the primary need of HHs so the most of HHs would agree to contribute 10 or more % of the required cost of improved latrine</u></li> <li>• <u>HHs can contribute in construction of latrines by their involvement</u></li> <li>• <u>Select HHs settled in the main catchment areas of rain water for latrines improvement</u></li> <li>• <u>It is essential to select the HHs who are willing to improve their latrines and capable to contribute certain portion of the cost for the improvement.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Land ownership of the areas affected to construction of flood facilities needs to be checked with district Land Offices</u></li> <li>• <u>There is likelihood of resistances from HHs who grow vegetable in their plot</u></li> <li>• <u>The movements of children, elderly and disabled will be challenging around the drainage area</u></li> <li>• <u>As there is a military range nearby, heavy tracks often cross over the settlement</u></li> <li>• <u>School buses often cross the drainage area</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Nearby private plots and houses along the road may get affected to the construction of the channel</u></li> <li>• <u>The movement of pedestrians and vehicles will be limited</u></li> <li>• <u>There may happen a complication during construction due to noise and dust distractions to nearby settlement</u></li> <li>• <u>Underground electric and fiber optic wires' breakage may occur during the construction</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>To select HHs who are willing to improve their latrines and take care of them further by themselves</u></li> <li>• <u>The residents can provide 10% of the cost of latrine</u></li> <li>• <u>Start the improvement of latrines from swampy areas</u></li> <li>• <u>Select the HHs with disabled and elderly members but main thing is that they should be willing to improve their latrines</u></li> </ul>



		<ul style="list-style-type: none"> <li>• <u>Select some of vulnerable households to support them for latrine's improvement</u></li> </ul>			
<u>Specific needs</u>	<ul style="list-style-type: none"> <li>• <u>To grant the movement of pedestrians foot bridges need to be developed in several locations over the drainage</u></li> <li>• <u>For cars movement, at least a bridge to be developed</u></li> <li>• <u>Road signs and safety warnings need to be installed around the bridge</u></li> <li>• <u>Drainage must have curb or fence to protect children to fall</u></li> <li>• <u>In the dark spots around the drainage illumination need to be installed</u></li> <li>• <u>Natural gullies disappeared due to human activities need to restore</u></li> <li>• <u>Public awareness programme and training need to be organized</u></li> <li>• <u>Distribution materials for public</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Inner lining of septic tanks should be done with consideration of permafrost interaction</u></li> <li>• <u>Septic tanks to be installed to make sure that waste water does not penetrate into the soil and ground water table</u></li> <li>• <u>On the ground part of the latrines should be very simple to be affordable for HHs</u></li> <li>• <u>However, latrines for male and female should be separate</u></li> <li>• <u>There should be a pan and supporter for elderly and disabled inside the latrine</u></li> <li>• <u>The latrines should have enough space for disabled to fit inside</u></li> <li>• <u>A rail need to be installed to the wall</u></li> <li>• <u>Latrines should have illumination</u></li> <li>• <u>Septic tanks should be installed with consideration of latter emptying service access</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Land ownership of the areas affected to construction of flood facilities needs to be checked with district Land Offices</u></li> <li>• <u>A bridge to be developed for the movement of heavy trucks, buses and pedestrians over the facility</u></li> <li>• <u>Safety warnings need to be installed around the flood facility</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Land ownership of the areas affected to construction of flood facilities needs to be checked with district Land Offices</u></li> <li>• <u>To avoid as much as possible to affect private land for the construction of flood facility</u></li> <li>• <u>Foot bridges and crossing for cars over the facility need to be developed</u></li> <li>• <u>Surveillance camera and street lights to be installed in the area of crossing and foot bridges</u></li> <li>• <u>Curb or fences with safety warning and road signs need to be constructed between road and ditches</u></li> <li>• <u>Public awareness trainings to be conducted</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The latrines should be designed and developed with ventilation, illumination, nonslip flooring and a pan (a smaller pan for children)</u></li> <li>• <u>A pit should be designed as septic tank with consideration of emptying service accessibility</u></li> <li>• <u>A latrine should have enough space and support for disabled person's movement</u></li> <li>• <u>To develop a regulation to penalize HHs without septic tank</u></li> <li>• <u>To put community monitoring after residents organized into community groups</u></li> <li>• <u>Not to allow to have many HHs in a plot</u></li> <li>• <u>Public awareness program with</u></li> </ul>

	<u>awareness could be an option to train the residents</u> <ul style="list-style-type: none"> <li>• <u>Roles and responsibilities of residents and HHs need to be clear enough towards the O&amp;M of the drainage</u></li> </ul>				<u>practical guidance to be conducted</u>
<u>Maintenance</u>	<ul style="list-style-type: none"> <li>• <u>HHs can be in charge of O&amp;M and cleaning of nearby parts of ditches</u></li> <li>• <u>To prevent illegal garbage dumping in the ditches, to consider installation of surveillance camera and illumination</u></li> <li>• <u>Make the community groups in charge of monitoring of O&amp;M of ditches</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Septic tank to be installed for waste water discharge and to be emptied when filled</u></li> <li>• <u>Public Awareness program on waterborne diseases and prevention measures</u></li> <li>• <u>In locations such as dead-end streets to install street lights to prevent illegal garbage dumping and waste water disposal</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Flood facility shall be handed over to the District Governor's office as the district's property</u></li> <li>• <u>District Landscaping and Common Services Division will be in charge of O&amp;M of the flood facility</u></li> <li>• <u>However, community groups of HHs live nearby to the flood facilities can put a monitoring over the O&amp;M of the facilities with help of Kheseg Leaders</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Flood facility shall be handed over to the District Governor's office as the district's property</u></li> <li>• <u>District Landscaping and Common Services Division will be in charge of O&amp;M of the flood facility</u></li> <li>• <u>However, community groups of HHs live nearby to the flood facilities can put a monitoring over the O&amp;M of the facilities with help of Kheseg Leaders</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Every HH should be in charge of their latrine's O&amp;M</u></li> <li>• <u>To penalize the HHs without septic tank</u></li> <li>• <u>HHs get organized into community groups and monitor the O&amp;M of improved latrines</u></li> <li>• <u>Not to allow to live many HHs in a plot</u></li> </ul>
<u>Grievance Redress</u>	<ul style="list-style-type: none"> <li>• <u>Grievances and complaints for the project activities shall be submitted to Khoroo Office in writing or through phone call</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Grievances and complaints for the project activities shall be submitted to Khoroo Office in writing or through phone call</u></li> <li>• <u>Khoroo Office shall communicate with the respective ones</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Grievances and complaints for the project activities shall be submitted to District Office in writing or</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Grievances and complaints for the project activities shall be submitted to District Office in writing or</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Grievances and complaints for the project activities shall be submitted to District Office in writing or through phone call</u></li> </ul>

	<ul style="list-style-type: none"> <li>• <u>Khoroo Office shall communicate with the respective ones and respond back to the residents when complaints are addressed</u></li> </ul>	<u>and respond back to the residents when complaints are addressed</u>	<u>through phone call</u>	<u>through phone call</u>	
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	<b>SBD12</b>	<b>SBD13</b>	<b>SBD16</b>	<b>SHD24</b>	<b>SHD25</b>
<u>Attendance</u>	<u>13: 2 males and 11female; 4 elderlies, 2 disabled, 4 parents with school age children</u>	<u>7: 1 male and 6 female; 3 elderly, 1 disabled, 2 parents with school age children</u>	<u>6: 1 male and 5 females; 3 disabled; 3 parents with school age children; 2 elderly</u>	<u>5: 1 male and 4 female; 2 elderly, 1 disabled; 2 parents with school age children</u>	<u>9: 2 male and 7 female; 2 elderly, 1 disabled; 3 parents with school age children</u>
<u>Proposed Intervention</u>	<u>Resilient sanitation delivery</u>	<u>Resilient sanitation delivery</u>	<u>Resilient sanitation delivery</u>	<u>Resilient sanitation delivery</u>	<u>Resilient sanitation delivery</u>
<u>Specific concerns</u>	<ul style="list-style-type: none"> <li>• <u>The toilet is the primary need of HHs so the most of HHs would agree to contribute 10 or more % of the required cost of improved latrine</u></li> <li>• <u>Toilet improvement can be done as a compulsory campaign activity for the improvement of quality of life of people</u></li> <li>• <u>Select the most flooded and polluted areas by the overfilled pit latrines and where there is higher movement of population for the intervention</u></li> <li>• <u>It would be the best if an improved latrine can be constructed to be shared within number of plots.</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>In the area, there is high number of disorders of digestive system for some reason</u></li> <li>• <u>There are HHs who can and cannot afford 10% of the cost of improved latrine</u></li> <li>• <u>The Eco toilet has been tested by some HHs but it was smelly like ordinary latrines</u></li> <li>• <u>It would be good if the project can foresee and prevent further problems with improvement of the latrines</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>In the area, there is high number of disorders of digestive system due to the sewerage problem according to the residents.</u></li> <li>• <u>There is high number of flies and mosquitoes during summer</u></li> <li>• <u>Some HHs can provide 10% of the cost of improved toilet.</u></li> <li>• <u>If some can afford to provide more than 10% the portion can be used for the lower income HHs' toilet improvement</u></li> <li>• <u>The priority target of the improvement is HHs with disabled and elderly members under regular care</u></li> <li>• <u>It would be better to select middle income HHs willing</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>There are HHs who can and cannot afford 10% of the cost of improved latrine</u></li> <li>• <u>Select the HHs in the swampy areas for the first round of improvement</u></li> <li>• <u>Select HHs which are young, socially active, with disabled and elderly members, with many children, paid regularly the utility bills and willing to improve their quality of life</u></li> <li>• <u>To select with recommendation of Kheseq leaders</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Higher number of disorders of digestive system happens especially during winter. People connect this with pollution of ground water table. Mainly children from HHs who use ground water for cooking get diarrhea.</u></li> <li>• <u>The 10% share could be acceptable for all as it will be once in a life time.</u></li> <li>• <u>It would be better to improve the toilets of middle income HHs</u></li> </ul>

	<ul style="list-style-type: none"> <li>• <u>Select the neediest HHs who are willing to improve pit latrines</u></li> <li>• <u>A Public Toilet needs to be constructed at the bus stop area close to Sansar Trade Center</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>HHs need to be selected based on the community consensus otherwise it may create disputes within community</u></li> <li>• <u>To select the HHs which live on steep slopes where there is high likelihood of latrines overflow and HHs are willing and capable to provide 10 or more % of cost</u></li> </ul>	<p><u>to improve their quality of life</u></p> <ul style="list-style-type: none"> <li>• <u>To select the most responsible HHs which don't dispose HH garbage illegally and actively participate in Khoroo activities such as cleaning the streets and so on</u></li> <li>• <u>A Public toilet need to be constructed in the vicinity area of Dambadarjaa mineral spring</u></li> <li>• <u>Another public toilet need to be constructed at the last bus stop area</u></li> <li>• <u>The first-round improvement should target the HHs live close to road to reduce the disgusting smell from latrines.</u></li> <li>• <u>And other priority is to target HHs live close to school and kindergarten. However, those HHs should be willing to improve their toilets and capable to bear the 10% of the cost</u></li> </ul>	<p><u>hence they know every HHs</u></p> <ul style="list-style-type: none"> <li>• <u>Residents get organized into community groups and select the HHs within the group</u></li> <li>• <u>A public toilet to be constructed at the last bus stop area</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>To select the HHs with many children, with disabled and elderly members but can afford the 10% share of the cost</u></li> <li>• <u>To select with recommendation of Kheseq leaders hence they know every HHs</u></li> <li>• <u>Residents get organized into community groups and select the HHs within the group</u></li> <li>• <u>A public toilet needed at the former and new last bus stop areas</u></li> </ul>
<u>Specific needs</u>	<ul style="list-style-type: none"> <li>• <u>It would be the best if can get connected to the nearest sewerage network</u></li> <li>• <u>Improved latrines should have lining, a seat comfortable for disabled and elderly, illumination, septic tank with enough capacity, rail fixed to the wall</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Latrines should be comfortable and user friendly for the different users such as children, women, elderly and disabled</u></li> <li>• <u>The improved latrines should</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The improved latrines should have an illumination and ventilation, non-slip flooring and steps, toilet seat, rail on the wall, peaceful to ensure the disabled person movement and not much elevated from the ground</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The improved latrines should have an illumination and ventilation, non-slip flooring and steps, toilet seat, rail on the wall, peaceful to ensure the disabled person movement and</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>The improved latrines should have an illumination and ventilation, non-slip flooring and steps, toilet seat, rail on the wall, peaceful to ensure the disabled person movement</u></li> </ul>

	<ul style="list-style-type: none"> <li>• <u>Latrines should be separate for male and female uses</u></li> <li>• <u>A septic tank can be shared for 5-10 HHs</u></li> <li>• <u>A septic tank for a swampy area should be made of materials persistent to permafrost soil interaction</u></li> </ul>	<p><u>have an illumination and ventilation, non-slip flooring and steps, toilet seat, rail on the wall, peaceful to ensure the disabled person movement and not much elevated from the ground</u></p> <ul style="list-style-type: none"> <li>• <u>Outdoor latrines would be better in ger areas</u></li> </ul>		<p><u>not much elevated from the ground</u></p> <ul style="list-style-type: none"> <li>• <u>A septic tank for a swampy area should be made of materials persistent to permafrost soil interaction</u></li> <li>• <u>Public awareness activities should be organized using TV and other methods and through distribution of hygiene promotion materials</u></li> <li>• <u>Develop and use a penalty system to correct unhygienic habits of communities</u></li> <li>• <u>Organize promotional activities for HHs with improved latrines</u></li> </ul>	<p><u>and not much elevated from the ground</u></p> <ul style="list-style-type: none"> <li>• <u>Outdoor latrines would be better in ger areas</u></li> <li>• <u>Public awareness activities should be organized using TV and other methods and through distribution of hygiene promotion materials</u></li> </ul>
<u>Maintenance</u>	<ul style="list-style-type: none"> <li>• <u>A tripartite agreement can be signed between the project, HH and the latrine developer covering O&amp;M roles and responsibilities</u></li> <li>• <u>Community groups can take O&amp;M responsibility collectively or by assigning a member to be in</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Community groups can take O&amp;M responsibility collectively or by assigning a member to be in charge of with certain incentive</u></li> <li>• <u>For ease of employing service to</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>HHs should be in charge of O&amp;M of their latrines</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>Community groups can take O&amp;M responsibility collectively or by assigning a member to be in charge of with certain incentive</u></li> </ul>	<ul style="list-style-type: none"> <li>• <u>HHs should be in charge of O&amp;M of their latrines</u></li> <li>• <u>Community groups can take O&amp;M responsibility collectively or by assigning a member to be in</u></li> </ul>

	<u>charge of with certain incentive</u> <ul style="list-style-type: none"> <li>In swampy areas, a pit for a septic tank must be prepared during winter while soil is frozen</li> </ul>	<u>put antifreeze and fluidifying additives regularly to the septic tank during winter</u> <ul style="list-style-type: none"> <li>Community groups can take O&amp;M responsibility collectively or by assigning a member to be in charge of with certain incentive</li> </ul>			<u>charge of with certain incentive</u>
<u>Grievance Redress</u>	<ul style="list-style-type: none"> <li>Grievance and complaints should be submitted to the project administration in writing when project is ongoing.</li> <li>After project completion to submit complaints to the Community organization established under the project</li> </ul>	<ul style="list-style-type: none"> <li>Grievance and complaints should be submitted to an administration organization above district level</li> </ul>	<ul style="list-style-type: none"> <li>Submit complaints to khoroo office</li> <li>In long run, there would be not much complaints coming from residents</li> </ul>	<ul style="list-style-type: none"> <li>HHs should be in charge of O&amp;M of their latrines</li> <li>If required, to submit complaints to community group leader</li> </ul>	<u>For grievance redress, meet in person or submit writing complaints to the developer</u>

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Зорилтот бүлгийн уулзалт.....

Venue/ Хаана: СХД-ийн 7-д хороо

Date/ Огноо: 2017.12.20

Attendance/ Ирцийн бүртгэл

No	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чатгална уу please check follow	Address/Xaap	Утас Telephone	Гарын үсэг Signature
1	Б. Мандор	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Монгол улс 16-р хороо 38-7007	88586453	
2	Н.Түвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СХД-ийн 7-д хороо 0119-3-28,100	99283367	
3	Б. Ахалсодорж	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СХД-ийн 7-д хороо 0119-3-41,7007	99132260	
4	Б.Сүрэнжав	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СХД-ийн 7-д хороо 0119-2-42	98269057	
5	Б.Доржсүрэн	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Монгол улс 2-42 хороо	88055746	
6	Б.Сүрэнжав	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Б.АХАЛСОДОРЖ - 126 А	96290096	

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Зорилтот бүлгийн уулзалт.....

Venue/ Хаана: СХД-ийн 24-р хороо

Date/ Огноо: 2017.12.22

Attendance/ Ирцийн бүртгэл

No	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чатгална уу please check follow	Address/Xaap	Утас Telephone	Гарын үсэг Signature
1	З.Хүндийн	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	24-23 39	961431232	
2	Б.Сүрэнжав	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	24-23-69 24-р хороо	99794523	
3	С.Сүрэнжав	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	39-ийн 31-6 24-р хороо	88855322	
4	Б.Сүрэнжав	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	39-ийн 24-р хороо	86244770	
5	Б.Сүрэнжав	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	24-р хороо 2-ийн 26-р хороо	91177395	



Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Зорилгот бүлгийн үүлээлт.....

Venue/ Хаана: Бидмундур 25-р хороо

Date/ Огноо: 2017.12.22

Attendance/ Иргэйн бүртгэл

Ж-22  
БМ-8  
БМ-2  
СМ-271-3  
ХБ-1  
У-3

No	Name Нэр	Sex Хүйс	Өвгөр /мааралтай ангилалаа чаргална үү please check follow	Address/Хаар	Утас Telephone	Гарын үсэг Signature
1.	Д.Бовонжиг	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Оюот 24-6504	8111843	Д.Бовонжиг
2.	С.Бурбаг	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Хачирхан 18-35	88854338	С.Бурбаг
3.	Б.Бүдүүл	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Хачирхан 3-7007	87532604	Б.Бүдүүл
4.	С.Омнун	<input type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Оюотын 21- 47 тос	99919548	Омнун
5.	Мүрмээ	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Х-14 32	98658501	Мүрмээ
6.	Мамист	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	О-8-20	96764999	Мамист

No	Name Нэр	Sex Хүйс	Өвгөр /мааралтай ангилалаа чаргална үү please check follow	Address/Хаар	Telephone Утас	Signature Гарын үсэг
7.	В.Харин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Оюот 24-97	83605737	В.Харин
8.	Д.Агбаа	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Оюот 24-103	99941012	Д.Агбаа
9.	Д.Цагдай	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Оюот 21-195	9975144	Д.Цагдай

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Зорилтот бүлгийн уулзалт.....

Venue/ Хаана: Уул-улаа 12-р хороо

Date/ Огноо: 2017.12.20-ыг

Attendance/ Иргэйн бүртгэл

No	Name Нэр	Хүйс Sex	Өврт хамааралтай ангилалаа чатгална уу please check follow	Address/Kamr	Утас Telephone	Гарын үсэг Signature
1.	Оюунтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо 548	99005646	Л.Минх
2.	Давуунбуя	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо Хамгаал 3-48	96774477	Хамгаал ашигласна сөрөөдөг хэм-зэр- хэм
3.	Оюунбаг	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо Хамгаал 20767	96970066	
4.	Оюунтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо Хамгаал 20767	95124062	
5.	Оюунтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо Хамгаал 20767	91315773	
6.	Энхтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р хороо Хамгаал 20767	96012338	

No	Name Нэр	Sex Хүйс	Өврт хамааралтай ангилалаа чатгална уу please check follow	Address/Kamr	Telephone Утас	Signature Гарын үсэг
7.	Баттүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р Хамгаал 20767	99319914	Баттүвшин
8.	Оюунтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Х. 22-7908	91856115	Оюунтүвшин
9.	Чайсан	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Х. 18-781	89382858	Чайсан
10.	Оюунтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Х. 15-601	95521436	Оюунтүвшин
11.	Мөнхтүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р Хамгаал 20767	89895139	Мөнхтүвшин
12.	Баттүвшин	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р Хамгаал 20767	86862728	Баттүвшин
13.	Оюунтүвшин	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБ 12-р Хамгаал 20767	99197341	Оюунтүвшин
		<input type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн баршээтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх			

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Зорилтот бүлгийн уулзалт.....

Venue/ Хаана: Шар хад БСД-ийн 9-р хороо,

Date/ Огноо: 2017.12.21

Attendance/ Ирцийн бүртгэл

No	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чагтална уу please check follow	Address/Хаяг	Утас Telephone	Гарын үсэг Signature
1	Отгонбаяр Төрлөгтэй	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	БСД-9-р хороо 716-6-20 хороо	88639783	Төр
2	М.Бат	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	БСД-9-р хороо 56-782ТООТ	97688328	Бат
3	Батсанаа Бат	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	БСД-9-р хороо 23-348	89881977	Бат
4	Л.Отгонбаяр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	БСД-9-р хороо 30хонд байртай	99249666	Л.Отгонбаяр
5	З.Төрлөгтэй	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	БСД-9-р хороо 31х-8-85	80295788	Төр
		<input type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх			

No	Name Нэр	Sex Хүйс	Өөрт хамааралтай ангилалаа чагтална уу please check follow	Address/Хаяг	Telephone Утас	Signature Гарын үсэг
5	Амар Ширинбаян	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Шар хад 64-919	96222654	Ширинбаян
6	Батхүү Энхтөр	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Шар хад 62-868	88162070	Батхүү
7	Оюунтөгс	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	65-928	89244402	Оюунтөгс
		<input type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй			

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: .....Эрхлэлт бүлгийн уулзалт.....

Venue/ Хаана: СБД-ийн 13

Date/ Огноо: 2017.12.20

Attendance/ Ирлийн бүртгэл

Nº	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чатгална уу please check follow	Address/Хаяг	Утас Telephone	Гарын үсэг Signature
1	Наранцруу	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input checked="" type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБД-13 рхрхрх 2017-12-20	95551600	
2	Наранцруу	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБД 13 хрхрх 23-35 мөө	8878578	Наранцруу
3	Омбогдого	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБД 13-рхрхрх 23-35 мөө	80127475	
4	Наранцруу	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Хангай 23-28 СБД-ийн 13-рхрх	88972862	Наранцруу
5	М.С. Тонго	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБД-13-рх рхрх 12-671	88862221	М.С. Тонго
6	Наранцруу	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	СБД-13-рхрх НТ-н 6-15	95852971	Наранцруу

Үерээс хамгаалах чадавхийг бэхжүүлэх төсөл

Meeting topic/Уулзалтын нэр: Зорилтот бүлгийн уулзалт

Venue/ Хаана: СБД-ийн 16-р хороо

Date/ Огноо: 2017.12.21

ОН-2  
СН-2  
ХБСН-1

Attendance/ Иргэйн бүртгэл

Nº	Name Нэр	Хүйс Sex	Өөрт хамааралтай ангилалаа чагтгална уу please check follow	Address/Хаяг	Утас Telephone	Гарын үсэг Signature
1.	М.Энхтайвч	<input checked="" type="checkbox"/> Эр <input type="checkbox"/> Эм	<input checked="" type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Дундговь 11-280	86560650	М.Энхтайвч
2.	Д.Одгон Орших	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	З-29-638405	89770808	Д.Одгон Орших
3.	М.Энхтайвч	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Б-18-436	88946015	М.Энхтайвч
4.	Г.Энхтайвч	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Б-20-506	9152319	Г.Энхтайвч
5.	Наринмаа	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Б-17-408	88948678	Наринмаа
6.	Энхтайвч	<input type="checkbox"/> Эр <input checked="" type="checkbox"/> Эм	<input type="checkbox"/> Өндөр настан <input type="checkbox"/> Хөгжлийн бэрхшээлтэй <input checked="" type="checkbox"/> Сургуулийн насны хүүхдэдэй эцэг эх	Б-27-669	9448908	Энхтайвч





## Annex 2

### UN-Habitat projects list – Interventions in Ulaanbaatar, Mongolia

Project	Objective	Donor	Implementing	Cities/
Managing Cities in Asia- Ulaanbaatar: Urban Renewal and Affordable Housing 2016-2017	This is ADB PPTA for a project development on improved housing conditions in Ulaanbaatar ger areas. The project outcome will be the establishment of replicable, sustainable, and comprehensive solutions for affordable housing and ger areas redevelopment. UN-Habitat is supporting the ADB in participatory concept and methodology development of affordable housing and urban renewal	Asian Development Bank (ADB)	Municipality of Ulaanbaatar City (MUB)	Ulaanbaatar City
Community Engagement and Small and Medium Enterprises Development under the ADB Ulaanbaatar Urban Services and Ger Areas Development Investment Program, Mongolia 2015-2018	The objectives of the project are to enhance residents' quality of life, to ensure that communities are fully involved in and benefit from the redevelopment process of the sub- center, and to generate employment in selected Ger areas.	Municipality of Ulaanbaatar City (MUB)	Municipality of Ulaanbaatar city, Asian Development Bank	Ulaanbaatar City
Community Engagement for Slum Upgrading within the Health System Strategy in Songinokhairkhan District, Ulaanbaatar, Mongolia, 2015	The main expected results of UN-Habitat's support to project is that the communities in the Ger settlements of the Songinokhairkhan district are actively and meaningfully engaged in the implementation of the Strategy of Health System Strengthening.	World Health Organization (WHO)	Songinokhairkhan District Governor's Office, District Health Center, WHO	Songinokhairkhan District Ulaanbaatar City
Guidelines for Participatory Urban Development in Ulaanbaatar City 2013-2014	This project aims to establish written guidelines on the process of community mobilization, organization, and strengthening which can be readily available reference materials for the staff and officials of MUB and districts responsible for Ger area projects implementation. This project will likewise train the key focal community leaders who will serve as trainers from the 9 districts of Ulaanbaatar to establish the foundation of strong community organizations which can develop and manage projects using the community-led and participatory approach.	Municipality of Ulaanbaatar City	Governor's Office of Ulaanbaatar City	Ulaanbaatar City
Community Engagement Support to Public-Private Partnership in New Ger Area Redevelopment in Ulaanbaatar City 2013-2015	This community engagement component will facilitate the community engagement in the MCUD- funded project to ensure that the design and plans of the infrastructure projects are according to needs of the residents, that issues especially pertaining to making land available for the project are adequately discussed and resolved within the community.	Mongol Diving LLC	Ministry of Construction and Urban Development (MCUD) – Municipality of Ulaanbaatar ATMOR LLC/ Mongolia Diving Company; Community groups	Ulaanbaatar City
Ulaanbaatar Urban Services And Ger Areas Development Investment Programme (Ulaanbaatar Urban Renewal Community Participation) 2012-2014	This is ADB PPTA for a Multi Facility Funding Programme development on Ger area Development and Investment Programme. UN-Habitat supported the PPTA in participatory planning of the required basic and social infrastructures in the selected areas.	Asian Development Bank (ADB)	Municipality of Ulaanbaatar	Ulaanbaatar City
Citywide Pro-poor "Ger Upgrading Strategy and Investment Plan" (GUSIP) 2006-2010	The overall objective of the project is to prepare a Citywide Pro-poor "Ger-area Upgrading Strategy and Investment Plan" (GUSIP) for Ulaanbaatar through a structured consultative process, involving public sector agencies, Duureg (District) and Khoroo (Sub-District) Councils, Ger-area communities, private sector agencies, civil society organizations and non-governmental organizations.	Cities Alliance	Municipality of Ulaanbaatar	Ulaanbaatar City
Community-Led Ger Area Upgrading in Ulaanbaatar City 2009-2013	The overall objective of the Project was to improve the quality of life of selected ger area communities through community-led upgrading by empowering the communities through mobilization and organization. The Project builds on the ongoing urban development and strategic planning efforts in Ulaanbaatar City.	JICA	Municipality of Ulaanbaatar	Ulaanbaatar City

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## Annex 3

### UN-Habitat People's Process Benefits Poster

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# Annex 4

## UN-Habitat People's Process Impacts Brochure

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### Origin of the People's Process

During the early 1980s, UN-Habitat worked with the Government of Sri Lanka to pioneer a community engagement philosophy that placed the communities at the heart of their own development – this philosophy would later become the cornerstone of UN-Habitat's community development programmes in urban and rural environments.

During that time, the municipality of Colombo integrated the People's Process into its own development agenda and operationalized over 1500 Community Development Committees (CDCs) to work with local government for implementation of a large-scale housing programme. This was the first example of the People's Process being adopted by government.

### Fundamental principles

The People's Process brings about a paradigm shift moving from a model of control by authorities to one of support to people – this is done through a participatory community development methodology built around 5 steps



### Multiple spillover effects

The People's Process achieves sustainability by combining technology with local knowledge. Moreover interventions are cheaper (approximately 30% more value for money), enhances the local economy, unlocks potential for local entrepreneurial opportunities, and national construction standards are facilitated in local urban through training. The approach also ensures human rights, through inclusivity and sustainability through a low environmental footprint.

### Timeline : UN-Habitat in response to major events & critical issues



### UN-Habitat Regional Office for Asia and the Pacific (ROAP)

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## 35 YEARS OF PEOPLE AT THE HEART OF THEIR OWN DEVELOPMENT

The People's Process: From Grassroots to Governance



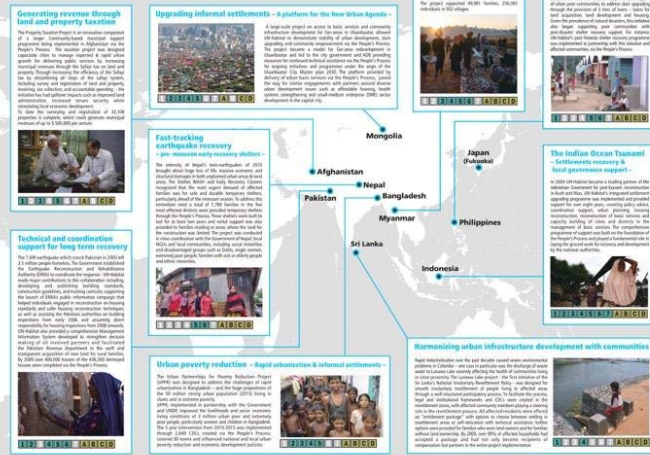
Representatives of a community development committee (CDC) in the process of planning and implementing a community-based housing project in a slum in Afghanistan.



UN HABITAT  
FOR A BETTER URBAN FUTURE

## People's Process

A structural framework that places people's needs and their rights at the heart of urban development



### INFLUENCING POLICY, PRACTICES & GOVERNANCE AT COMMUNITY, CITY AND NATIONAL LEVELS

The UN-Habitat strategy is to increasingly support the institutionalisation and mainstreaming of the People's Process and expand the use of the approach to impact on municipal, provincial and national urban policies.

**INSTITUTIONALIZATION**  
Governments recognize the People's Process as a key model and approach for sustainable development and plan urban recovery and institutionalize the key elements of Community Development Committees (CDCs) and the Community Contract within national policies and programmes.

### MAINSTREAMING 7 FOCUS AREAS

1. Land Legislation & Governance
2. Urban Planning and Design
3. Urban Economy
4. Urban Basic Services
5. Housing and Slum Upgrading
6. Risk Reduction and Rehabilitation
7. Research and Capacity Development

### CROSS CUTTING ISSUES

- A. Human Rights
- B. Climate Change
- C. Gender
- D. Youth

### COMMUNITY OWNERSHIP

Community ownership and engagement via participatory decision making has been demonstrated in participatory, bottom-up housing, human dignity, building social capital, urban regeneration, urban recovery, along with the ability to deliver massive operations within a relatively short timeframe. Ensuring accountability and transparency between communities and government is essential to ensure the sustainability of the projects in the long run.

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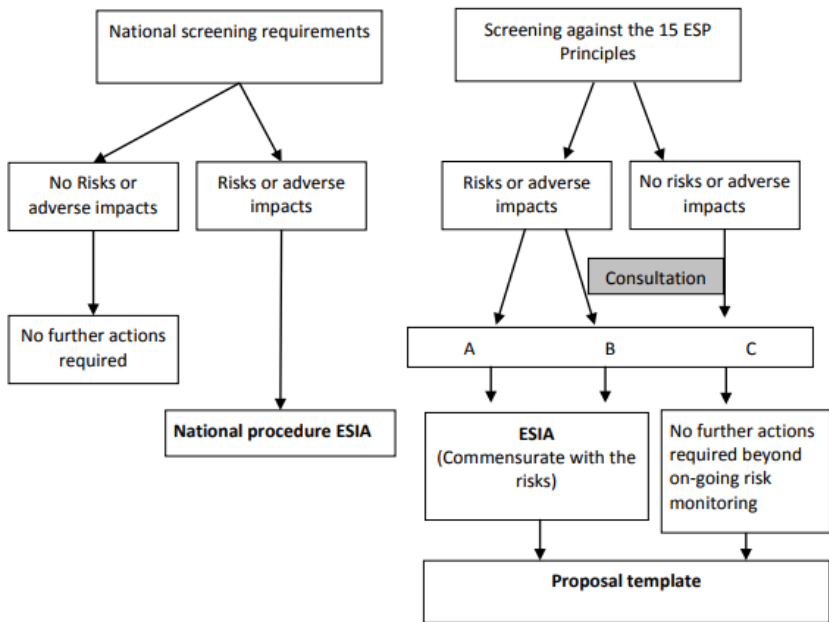
# Annex 5

Demonstrating compliance with the **Adaptation Fund Social and Environmental Policy (ESP)**, including:

- Approach and process to comply to the AF ESP and screening and categorization results
- Environmental and social management plan, including detailed screening results and monitoring arrangements

## Approach and process to comply to the AF ESP and screening and categorization results.

The proposed project fully complies with international and national laws and the Adaptation Fund's **Environmental ESP** and **Social Gender Policy (GP)**. In line with UN-Habitats Environmental and Social Safeguards System and in line with the Adaptation Fund's **Environmental ESP** and **Social Policy GP**, UN-Habitat completed an initial risk analysis of potential environmental and social risks and impacts of the proposed interventions and the project as a whole.



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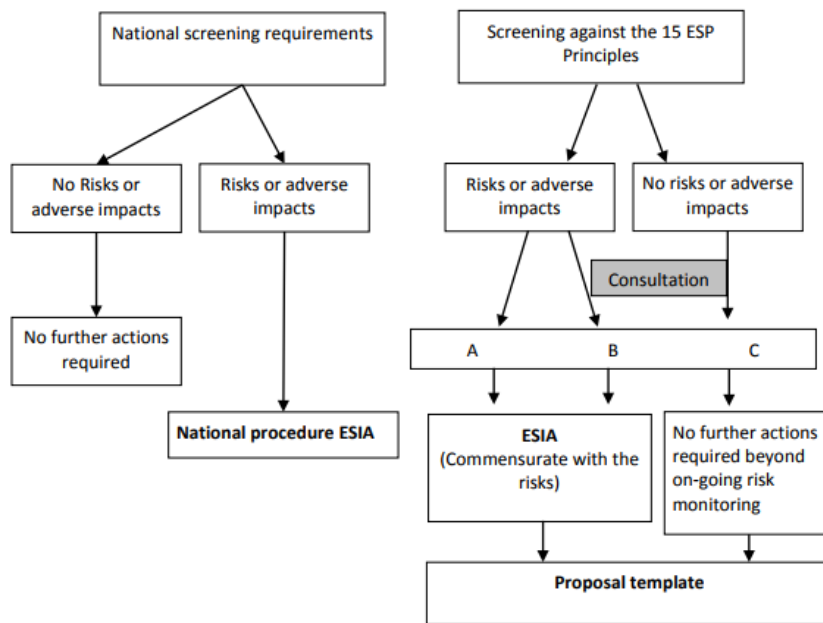


Fig 18 Screening and Assessment Process (from AF ESP Guidance Document, p. 5)

In line with the Adaptation Fund's guidelines, all interventions / activities were screened against international and national rules, regulations and standards, as represented in the left flow chart in Fig 18 above and documented in part II, section E. For the concrete interventions, (i.e. flood protection and drainage and flood resilient latrines), it has been specifically checked if ESIA's would be required by law. This has been done by analysing the relevant standards and requirements and by double-checking these requirements with the municipality, which confirmed that ESIA's would not be required for the proposed interventions.

Further, in line with the Adaptation Fund's ESP guidelines (flow chart on the right in Fig 18) the entire project and separate project components concrete interventions and softer activities have been screened (and a report was prepared based on the above process and presented to UN-Habitat's Project Review Committee.<sup>32</sup> Based on this exercise, the overall risk ranking for this project has been determined as Category B.

Workshops, community consultations, capacity development, training events, mentoring, information sharing (throughout the components) are not expected to have negative environmental or social risks or impacts. However, to prevent potential risks related to the equal or unequal involvement and/or representation of different groups (related to principles 2, 3 and 5), some measures have been put in place. This is to ensure that different groups are organized and that equal participation is possible and ensured. Therefore, quotas will be used. As for outputs 1.1-3 (land use plans) and output 2.1 (technical studies, leading to proposed designs of interventions) also no

<sup>32</sup> According to UN-Habitat's guidelines this report is not approved for public disclosure but a copy is made available to the Adaptation Fund Board / and Adaptation Fund Board Secretariat.

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negative impacts and risks are expected. However, to prevent any principle to be triggered, the project will ensure that all principles will be taken into account when developing these land use plans and conducting these technical studies, thus ensuring compliance. This will be done by including standard clauses requiring the compliance with the safeguard areas in AoC and contracts + screening the plans for compliance with the 15 safeguard areas. As for the risk categorization of activities under components 1, 2 and 4, the overall risk ranking has been defined as low (in line with Category C). An overview of activities, potential risks, preventive measures and monitoring indicators and responsibilities is presented below.

Component 3 includes concrete adaptation interventions. At this stage, some risks could not be fully excluded and thus a preliminary screening and assessment of the core concrete interventions has been carried out. The result is that some principles were triggered. To minimize possible risks under designated principles, preventive and mitigation measures have been proposed (including monitoring indicators and responsibilities, as presented in a table below. An overview of this is also presented in Section II.K. During project execution, all project interventions / activities will be further screened for environmental and social risks, applying the ESMP. Measures to prevent and mitigate such risks will also be planned through the ESMP, according to the procedures presented in annex x below.

**Environmental and social management plan, including detailed screening results and monitoring arrangements**

**1. Introduction**

The ESMP lists all potential risks identified and the preventive / mitigation measures proposed to reduce potentially adverse environmental and social impacts to acceptable levels. The plan also shows how these potential risks and mitigation measures will be further ~~monitored~~ monitored, including responsibilities. Specifically, the ESMP:

- (i) Identifies and summarizes all anticipated adverse environmental and social risks and impacts in line with the Adaptation Fund's ESP principles;
- (ii) Provides information about the significance of the risks of interventions
- (iii) Describes mitigation measures, both from the perspective of mitigating risks at each activity and from the perspective of upholding all ESP principles.
- (iv) Refers to responsibilities and sections where responsibilities for further screening and monitoring is discussed.
- (v) Takes into account, and is consistent with, other mitigation plans required for the project in particular those that relate to national law

Sections II.E and II.K provide an overview of the 15 principles, the initially screened and assessed risks and potential need for further screening, assessments and monitoring throughout the project.

**2. Additional Risk Mitigation**

Additional to the risk mitigation measures identified below, the following elements will be put in place to ensure the compliance with the ESP:

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- (vii) All MoUs and Agreements of Cooperation with Executing Entities will include detailed reference to the ESMP and in particular the 15 ESP Principles.
- (viii) The ToR of PCT and Advisory Groups, project personnel and focal points will include will include detailed reference to the ESMP and in particular the 15 ESP Principles.
- (ix) All key Executing Entity Partners will receive training / capacity development to understand the 15 Principles, the ESMP and in particular their responsibilities. This will include members of the PAC, PCT and the Communities.
- (x) A Monitoring and Evaluation Framework, including monitoring of risks and mitigation measures, will be developed by the project management team and presented for approval to the Project Advisory Committee– (see also part III.D).
- (xi) The UN-Habitat Human rights officers and PAC will check project compliance to the AF ESP during the project (besides the project manager).

### 3. Risk Screening and Management Procedure

All project activities ~~will behave been~~ screened against the 15 environmental and social risks. ~~This~~ Additionally, this will be done ~~in spite of any previous screening that may have already been done during again when~~ the project ~~design phase commences~~. In addition to upholding the ESP of the Adaptation Fund and to familiarize all project stakeholders with the 15 ESP principles, this will also ensure that all stakeholders fully take ownership of the environmental and social safeguards procedures of the project and that any activity that may have been altered or not yet assessed in full detail.

The following flow chart (Fig ~~x19~~) represents the risk management and safeguarding process during the project.

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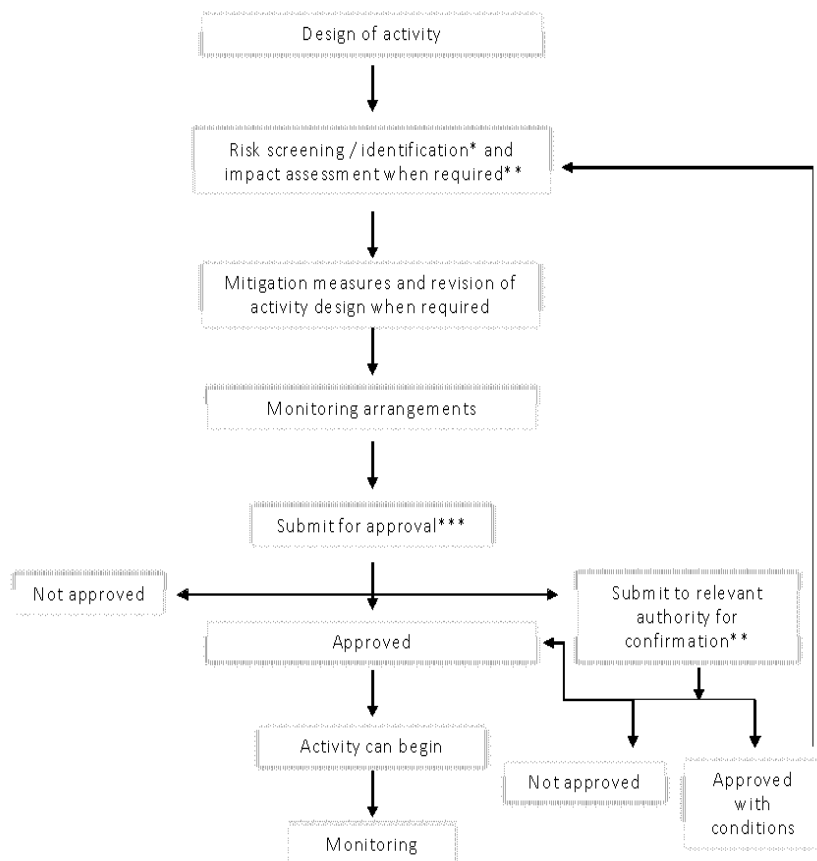
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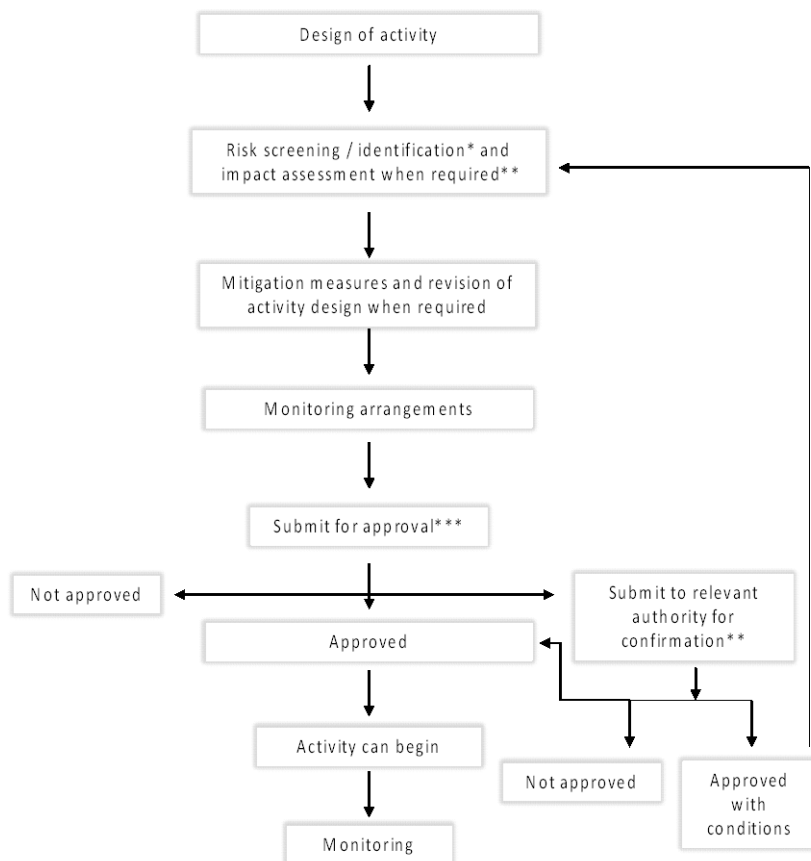
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- \* For all activities against the 15 ESP principles.  
Use of Risk Assessment Sheet where necessary
- \*\* In consultation with Technical Advisory Group
- \*\*\* All after activities to be approved by Project Management Committee



\* For all activities against the 15 ESP principles.  
Use of Risk Assessment Sheet where necessary

\*\* In consultation with Technical Advisory Group

\*\*\* All after activities to be approved by Project Management Committee

**Fig x19** Activity approval in the context of environmental and social risk management

Step 1: Activity design at the project management level or through EIs or in close consultation with Communities is to take all 15 ESP principles into consideration.

Step 2: Project screening will be conducted under the direct responsibility of the national project manager. The risk screening used is filled below for the flood protection and drainage infrastructure and resilient latrines below.

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Step 3: In consultation with environmental authorities (see also part II.E) and affected population, those responsible for the project design, the national project manager will (confirm) or identify and plan for mitigation measures.

Step 4: If and when needed additional monitoring mechanisms will be developed. Ongoing project monitoring will always be implemented in place.

Step 5: The project manager will clear the screening and assessment report after the local authorities and will submit it to the Project Advisory Committee.

Step 6: With additional information, activities may be rejected and thus a new project design will be required. Project activities may be approved with conditions, requiring either assessments in line with national procedures, minor design changes, additional mitigation measures or further monitoring. Such changes will have to be resubmitted for approval. Only approved activities can proceed to implementation and will be monitored. Where activity specific monitoring arrangements are needed, risk mitigation measures for all identified risks will include:

- ✓ A baseline and risk indicators.
- ✓ A monitoring plan, developed in a participatory manner (in the case of community projects), which emphasizes the role of communities as front-line monitoring agents.
- ✓ Minutes will be compiled from all meetings with communities and reviewed by the Technical Committee.
- ✓ Ongoing monitoring exercises and an end of year review will be carried out and included in the annual progress reports.

The UN-Habitat Project Manager will ensure that screening and assessments adequately include and/or reflect the following:

- ✓ The 15 ESP Principles.
- ✓ Utilize strategic, sectoral or regional environmental assessment where appropriate.
- ✓ Assess adequacy of the applicable legal and institutional framework, including obligations under Applicable Law and confirm that the activities / sub-project would not be supported if it contravenes (inter) national obligations.
- ✓ Assess feasible investment, technical, and siting alternatives, including the "no action" alternative, as well as potential impacts, feasibility of mitigating these impacts, their capital and recurrent costs, their suitability under local conditions, and the institutional, training and monitoring requirements associated with them.
- ✓ Enhance positive impacts and avoid, minimize, and/or mitigate adverse impacts through environmental and social planning and management. Develop a management plan per concrete intervention that includes the proposed measures for mitigation, monitoring, institutional capacity development and training (if required), an implementation schedule (including maintenance), and cost estimates.
- ✓ Ensure compliance with international standards and, where appropriate, use independent advisory panels during preparation and implementation of sub-projects that contain risks or that involve serious and multi-dimensional social and/or environmental concerns.

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✓ Examine whether particular individuals and groups may be differentially or disproportionately affected by the sub-project potential adverse impacts because of their disadvantaged or marginalized status, due to such factors as race, ethnicity, gender, age, language, disability, sexual orientation, religion, political or other opinion, national or social or geographical origin, property, birth or other status including as an indigenous person or as a member of a minority. Where such individuals or groups are identified, recommend targeted and differentiated measures to ensure that the adverse impacts do not fall disproportionately on them.

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✓ All proposed concrete interventions with environmental and social risks will be assessed and managed with the purpose to identify potential application of requirements of the Overarching Environmental and Social Policy (ESP) and Principles.

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#### 4. Project Grievance mechanism

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UN-Habitat will implement a grievance mechanism in the target areas, which will allow an accessible, transparent, fair and effective means of communicating if there are any concerns regarding project design and implementation. Employees, and people affected by the project will be made aware of the grievance mechanism for any criticism or complaint of an activity.

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This mechanism considers the special needs of different groups as well as gender considerations. A combination of mailboxes (at Khoroo level), confidential persons in the community and telephoning options offer an immediate way for employees and people affected by the project to safely express their concerns. The options will allow local languages and offer the opportunity for and people affected by the project to complain or provide suggestions on how to improve project design and implementation—, which will be reviewed and taken up by the project implementation team.

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Project staff will be trained in procedures for receiving messages and on the reporting of any grievances. Community chiefs will also be briefed how to obtain feedback from community members on a regular basis. In addition, monitoring activities allow project participants to voice their opinions or complaints as they may see fit.

The address and e-mail address of the Adaptation Fund will also be made public (i.e. project website, Facebook and mailbox) for anyone to raise concerns regarding the project:

Adaptation Fund Board secretariat  
Mail stop: MSN P-4-400  
1818 H Street NW  
Washington DC

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### Detailed screening results

**Table 25** ~~overview~~Overview of activities other than concrete interventions, and potential risks, with proposed mitigation measures and monitoring arrangements

Component	Output	Potential principle triggered	Preventive measure	Monitoring arrangements	
				Indicator and methos	Frequency and responsibility
1	1.1-3	Non-consideration of / compliance to the AF ESP when developing these land use plans	Include standard clauses requiring the compliance with the safeguard areas in AoC and contracts + screening the plans for compliance with the 15 safeguard areas	Check (list) to assess compliance to safeguard areas	Before and after plans Local project manager
2	2.1	Non-consideration of / compliance to the AF ESP when conducting studies			
1,2,3	1.1-3 2.1-3 4.1	2, 3 and 5. Risk that different groups are not equally involved in planning processes, workshops, trainings, etc.	Communities will be organized and quotas will be used to ensure different groups are included / represented. For government workshops and trainings, gender quotas will apply.	Count % different groups Attendance sheets and photos	Every meeting; annually Local project manager

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**Table 26** Filled risk screening sheets for the two concrete core interventions (1. flood protection and drainage systems and 2. resilient latrines, including overview of environmental and social risks, the significance of the risks, mitigation measures and management / monitoring arrangements

TABLE 1: GENERAL INFORMATION	
1. Intervention	<u>Flood protection and drainage infrastructure</u> (to reduce flood risks to vulnerable people, assets; reduce health impacts of flood to lets and related disease incidents
2. Project number (if relevant)	<u>Ulaanbaatar nr 1</u>
3. Project location (village, districts, geographical coordination)	<u>Khoroo 7 and 9 and 24</u>

TABLE 2: ACTIVITY / SUB-PROJECT DETAILS	
TECHNICAL INFORMATION (WHAT WILL BE DEVELOPED / CONSTRUCTED AND LOCATION DETAILS, LENGTH, SIZE, ETC.)	
4. Activity description and or asset to be developed	<p><input checked="" type="checkbox"/> Construct a flood retention wall / dike in Khoroo 9</p> <ul style="list-style-type: none"> <li>Length: <u>490 meters</u></li> <li>Hight: <u>1,5 meters</u></li> <li>Width <u>1,5 meters</u></li> </ul> <p><input checked="" type="checkbox"/> Covered drainage channels in Khoroo 7</p> <ul style="list-style-type: none"> <li>Length: <u>1066 meters</u></li> <li>Dimension: <u>1 m2</u></li> </ul> <p><input checked="" type="checkbox"/> Drainage channel in Khoroo 7</p> <ul style="list-style-type: none"> <li>Length: <u>1954 meters</u></li> <li>Dimension: <u>1m2</u></li> </ul> <p><input checked="" type="checkbox"/> Drainage ditch/channel next to the road in Khoroo 9</p> <ul style="list-style-type: none"> <li>Length: <u>1065 meters</u></li> <li>Dimension: <u>1m2</u></li> </ul> <p><input checked="" type="checkbox"/> River training to protect assets / houses in Khoroo 24</p> <ul style="list-style-type: none"> <li>Ad hoc interventions by settlers who will do the construction work</li> </ul>
5. Materials to be used	<p><input checked="" type="checkbox"/> Construct a flood retention wall / dike in Khoroo 9</p> <ul style="list-style-type: none"> <li>Soil, rock and cement</li> </ul> <p><input checked="" type="checkbox"/> Covered drainage channels in Khoroo 7</p> <ul style="list-style-type: none"> <li>Cement</li> </ul> <p><input checked="" type="checkbox"/> Drainage channel in Khoroo 7</p> <ul style="list-style-type: none"> <li>Cement</li> </ul> <p><input checked="" type="checkbox"/> Drainage ditch/channel next to the road in Khoroo 9</p> <ul style="list-style-type: none"> <li>Cement</li> </ul> <p><input checked="" type="checkbox"/> River training to protect assets in Khoroo 24</p> <ul style="list-style-type: none"> <li>Material from the river</li> </ul>
6. Other technical specifications	<p><input checked="" type="checkbox"/> Plans with maps need to be developed</p> <p><input checked="" type="checkbox"/> Hydrology, soil and engineering studies need to be conducted</p>
7. Is an ESIA required by law?	<input checked="" type="checkbox"/> The final plan, including the studies need to be approved by committee consisting of hydrology and engineering experts

		<input checked="" type="checkbox"/> An ESIA is not required for any of the interventions	Formatted
		<input checked="" type="checkbox"/> Construct a flood retention wall / dike in Khoroo 9	Formatted
		○ Public / not used as it is currently a flood area (and frozen in winter)	Formatted
		<input checked="" type="checkbox"/> Covered drainage channels in Khoroo 7	Formatted
		○ Some parts are private. Therefore, there will be an open-and-close approach.	Formatted
		<input checked="" type="checkbox"/> Drainage channel in Khoroo 7	Formatted
		○ Public (along road and dike)	Formatted
		<input checked="" type="checkbox"/> Drainage ditch/channel next to the road in Khoroo 9 + foot bridge to cross	Formatted
		○ Public (along road)	Formatted
		<input checked="" type="checkbox"/> River training to protect assets in Khoroo 24	Formatted
		○ Public / not used as it is currently a flood area (and frozen in winter)	Formatted
8. Who owns the land the activity is planned on and / or who uses the land and why?			Formatted
9. Start date of activity / works	Year 1		Formatted
10. End date of activity / works	Year 3		Formatted
<b>USE OF ASSETS (BENEFITS AND ACCESS)</b>			
11. How will the asset be used		<input checked="" type="checkbox"/> All interventions are selected to efficiently drain flash and gully flood water/floodwater. The footbridge is required to safely pass the drainage channel and road.	Formatted
		<input checked="" type="checkbox"/> Conduct detailed hydrology, soil and engineering studies and develop detailed technical plans	Formatted
12. Interventions required for appropriate use of the asset(s)		<input checked="" type="checkbox"/> Dredge the river along desired course and use the soil to protect assets in the riverbed	Formatted
		<input checked="" type="checkbox"/> Community organization and agreement on beneficiaries including selection criteria for who can be involved in activities	Formatted
		<input checked="" type="checkbox"/> Need agreement of all settlers affected by drainage that will go through private plots	Formatted
		<input checked="" type="checkbox"/> Raise awareness and train community members about flood risk areas and how to reduce risks by:	Formatted
		○ Not dumping waste into the drainage system	Formatted
		○ Introducing protection options and techniques	Formatted
		<input checked="" type="checkbox"/> Community groups will be formed for implementation of projects (involving Khoroo/District officials) and to raise awareness / discuss disposal of sludge on roads, proper removal of sludge, not throwing waste in canals.	Formatted
13. Interventions required for sustainable management and maintenance of the asset(s)		<input checked="" type="checkbox"/> Agreement between community groups and officials about maintenance; District Landscaping and Common Services Division will be in charge of O & M of the flood protection intervention. However, community groups of HHs live nearby to the flood facilities can put a monitoring over the O&M of the facilities with help of Kheseg Leaders	Formatted
		<input checked="" type="checkbox"/> Involve Khoroo and District officials during project selection, implementation, certification of transfer of funds, installation, oversight, etc.	Formatted



## CONSULTATIONS

14. Was the community (and specific groups) consulted

- ☑ August 2017: Khoroo level vulnerability assessments
- ☑ October / November 2017: Khoroo level action planning / interventions prioritization
- ☑ December 2017: Vulnerable groups (women, elderly, disabled and parents of school children) focus group discussion to capture concerns and needs regarding proposed interventions and to understand how communities can contribute to maintenance.
- ☑ December 2017: engineers and urban planners from UB to discuss feasibility and draw sketches of proposed interventions (and to understand implementation process and materials required)

Outcomes include:

Specific concerns

- ☑ Children falling into open drainage channels
- ☑ Although people (including directly affected) proposed and agreed with the planned drainage in Khoroo 7, we need during the 2<sup>nd</sup> and 3<sup>rd</sup> round of consultations, the project needs make sure people ensure beneficiaries fully agree with all steps taken and that houses won't be affected
- ☑ New drainage may lead to crossing issues for elderly, disabled, etc.
- ☑ Check if underground high voltage lines are in the development area
- ☑ Ensure vegetables can still grow in Khoroo 9

Specific needs

- ☑ Drainage must have curb or fence to protect children and Safety warnings should be installed
- ☑ Fully involve all affected households in the planning and design process
- ☑ Some pedestrian crossings over drainage channels
- ☑ Roles and responsibilities of residents / households and government need to be clear enough regarding operation and maintenance of the drainage
- ☑ The flood protection wall shall be handed over to the District Governor's office as the district's property. However, community groups of households living nearby to the flood facilities can assist monitoring of operation and maintenance of the facilities with help of Kheseg Leaders.

15. Have relevant local authorities been consulted

- ☑ July 2017: Ulaanbatar Municipality; District Governors, Khoroo officials
- ☑ December 2017: Ulaanbatar Municipality; District Governors, Khoroo officials

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	Was emphasized that flood reduction / management is the main priority. Sanitation is recognized as a big problem, as well as waste management. <u>This was confirmed by the Ministry of Environment &amp; Tourism as key and urgent priorities</u>	Formatted: Font: 11 pt, English (United States)
<b>ENVIRONMENTAL AND SOCIAL CONTEXT</b>		Formatted: Font: 11 pt, English (United States)
2	Description of the environmental context and the main environmental issues on the site / in the area	Formatted: Font: 11 pt, English (United States)
	In summer, when ice melts and rain falls, water comes down from the northern hills, leading to floods around gully's and rivers. These floods affect, houses, other assets and overflow of outdoor pit latrines, leading to heavily polluted water and soil, which in turn lead to disease incidents, often affecting children. In the downhill / lower-lying Khorroos, another problem besides floods is stagnant water and groundwater coming up. This stagnant water, which is polluted due to overflow of the latrines, often from upstream, can stay for months and results in cars, ambulances, fire trucks, etc. not being able to enter the Khoroo. After the summer, the stagnant water freezes to the melt again in summer. Other environmental problems are extreme pollution and waste management. In winter, gullies or streams which are then frozen, are often used as roads.	Formatted: Font: 11 pt, English (United States)
3	Description of the social context and the main social issues on the site / in the area	Formatted: Font: 11 pt, English (United States)
	In the target areas, poverty incidences are high and coping mechanism for floods are very limited. Knowledge of resilient latrines design is almost not existent and awareness of hygiene related to sanitation and hand washing is very low. Due to land pressure, newcomers often reside in informal areas in high risk areas such as riverbeds or at the foot of gullies. Land use plans don't really exist, especially at the Khoroo level. Most of the land is private / allocated to inhabitants. Due to ex-communist times, community organization is very limited. Women are generally very vocal and equally treated.	Formatted: Font: 11 pt, English (United States)
<b>TABLE 3: CHECKLIST OF POTENTIAL RISK AREAS OF NON-COMPLIANCE WITHIN THE ADAPTATION FUND'S ENVIRONMENTAL AND SOCIAL PRINCIPLES</b>		Formatted: Font: 11 pt, English (United States)
<b>Adaptation Fund principle 1: Compliance with the Law</b>		Formatted: Font: 11 pt, English (United States)
20	Is there a risk that the activity does not comply with an applicable domestic or international law?	Formatted: Font: 11 pt, English (United States)
<b>Adaptation Fund principle 2: Access and equity</b>		Formatted: Font: 11 pt, English (United States)
21	Is there a risk that the activity would exclude any potentially affected stakeholders from fully participating in decisions that may affect them?	Formatted: Font: 11 pt, English (United States)
22	Is there a risk that the activity would impede access of any group to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions, land rights, etc.?	Formatted: Font: 11 pt, English (United States)
23	Is there a risk that the activity does not provide fair and equitable access to benefits from the project to all affected stakeholders?	Formatted: Font: 11 pt, English (United States)
24	Is there a risk that the activity exacerbates existing inequities, particularly with respect to marginalized or vulnerable groups?	Formatted: Font: 11 pt, English (United States)
<b>Adaptation Fund principle 3: Vulnerable and marginalized groups</b>		Formatted: Font: 11 pt, English (United States)
25	Are there any marginalized or vulnerable groups present among project beneficiaries?	Formatted: Font: 11 pt, English (United States)
26	Is there a likelihood that the activity would have inequitable or discriminatory adverse impacts?	Formatted: Font: 11 pt, English (United States)

pacts on affected populations, particularly people living in poverty or marginalized or excluded individuals or groups?

27. Could the activity potentially restrict availability, quality of and access to resources or basic services to marginalized individuals or groups?

#### Adaptation Fund principle 4: Human rights

28. Could the activity lead to adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population?

29. Would the activity possibly affect land tenure arrangements and/or community based property rights/customary rights to land, territories and/or resources?

#### Adaptation Fund principle 5: Gender equality and women's empowerment

30. Is there a likelihood that the proposed activity would have adverse impacts on gender equality and/or the situation of women and girls?

31. Would the activity potentially reproduce discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?

32. Would the activity potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services?

#### Adaptation Fund principle 6: Core labour rights

33. Does the activity involve support for employment or livelihoods that may fail to comply with national and international labour standards (i.e. principles and standards of ILO fundamental conventions)?

#### Adaptation Fund principle 7: Indigenous people

34. Are indigenous peoples present in the project area?

35. Would the proposed activity potentially affect the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?

36. Would the activity adversely affect the development priorities of indigenous peoples as defined by them?

37. Has there been an absence of culturally appropriate consultations on matters that may affect the rights and interests, lands, resources, territories and traditional livelihoods of the indigenous peoples concerned?

#### Adaptation Fund principle 8: Involuntary resettlement

38. Would the activity potentially involve temporary or permanent and full or partial physical displacement?

39. Is there a risk that the activity would lead to forced evictions?

40. Will the activity lead to economic displacement (loss of assets or access to assets that leads to loss of income sources or other means of livelihood)?

#### Adaptation Fund principle 9: Protection of natural habitats

41. Is the activity within or adjacent to critical habitats and/or environmentally sensitive areas, including legally protected areas (e.g. nature reserve, national park), areas proposed for protection, or recognized as such by authoritative sources and/or indigenous peoples or local communities?

42. Would the activity potentially cause adverse impacts to habitats (e.g. natural, modified, and critical habitats) and/or ecosystems and ecosystem services?

43. Does the activity involve changes to the use of lands and resources that may have adverse impacts on habitats, ecosystems, and/or livelihoods?

**Adaptation Fund principle 10: Conserving biodiversity**

44. Could the activity lead to the reduction or loss of biological diversity?
45. Would the activity pose a risk of introducing invasive and/or non-native species?
46. Is monoculture foreseen?
47. Would the activity pose risks to endangered species?

**Adaptation Fund principle 11: Climate change**

48. Will the activity result in significant greenhouse gas emissions or may it exacerbate climate change / maladaptation (e.g. negative effects in other areas)?

**Adaptation Fund principle 12: Pollution and resource efficiency**

49. Does the activity require significant consumption of raw materials, energy, and/or water?
50. Would the activity potentially result in the generation of waste (both hazardous and non-hazardous)?
51. Would the activity potentially result in the release of pollutants to the environment due to routine or non-routine circumstances with the potential for adverse local, regional, and/or transboundary impacts?
52. Will the activity involve the application of pesticides?

**Adaptation Fund principle 13: Public health**

53. Would the activity result in potential increased health risks (e.g. from waterborne or other vector-borne diseases or communicable infections such as HIV/AIDS)?
54. Would the activity pose potential risks to community health and safety due to the transport, storage, and use and/or disposal of hazardous or dangerous materials?
55. Would elements of activity construction, operation, or decommissioning pose potential safety risks to local communities?

**Adaptation Fund principle 14: Physical and cultural heritage**

56. Will the proposed activity result in interventions that would potentially adversely impact sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g. knowledge, innovations, practices)?

**Adaptation Fund principle 15: Land and soil erosion**

57. Will the activity lead to the conversion of wetlands, waterways, or woodlots?
58. Will the activity cause the clearing of natural vegetation and/or forest?
59. Is there a risk that the activity leads to soil degradation?
60. Is there a risk that the activity is designed without proper soil analysis and/or does not match soil capability?

**Table 4: Identifying probability, impact, significance and risks mitigation measures**

Table partially filled out, to provide examples for project staff to complete the table fully. Please use the checklist (table 3) to identify risks

WHAT ARE THE POTENTIAL ENVIRONMENTAL AND SOCIAL RISKS?					
AF principle number and description of risks	Probability (P) and Impact (I) Score 1 - 5	Significance (= impact x probability) Low: 1-7 Med: 8-14 High: 15-25	Comment (also to identify significance of risk and impacts, i.e. evidence)	Mitigation measures proposed	Frequency
AF Principle nr 2: risk that the activity would exclude any potentially affected stakeholders from fully participating in decisions that may affect them	P= 1 I = 3	Low (3)	During consultations, it became clear that no specific group is treated differently. <del>However, to</del> <u>Women, elderly, youth, disabled and female-headed households in poor areas have been consulted, also in focus groups.</u> To ensure that informal settlers, poor people, etc. are involved in decisions that may affect them a mitigation measure is proposed.	<u>Community organization</u> where everyone can participate, but quotas will be used to ensure different groups are included. Also, criteria for beneficiaries' selection will be established in advance.	
AF Principle nr 3: risk that some vulnerable affected groups may not participate in decisions making processes regarding design and planning of activities that may affect them	P= 1 I = 3	Low (3)	<u>In some areas, pedestrian crossings over drainage channels. During the 3<sup>rd</sup> round of consultations, community members of Khoroo 9 identified the need of a bridge (especially <del>focused on</del> elderly and disabled, <del>may be needed</del> over the drainage channel proposed in Khoroo 9.</u>	Primary Groups membership will include all households benefitting from construction of drainage  Construct foot bridges where needed ( <u>included in budget</u> )	
AF Principle nr 4: risk that tenure arrangements and/or community based property rights are affected	P= 2 I = 4	Med (8)	In Khoroo 7, there is 1 km of planned underground drainage. This drainage channel is underground because it will go through some private plots. <u>(not necessarily under houses).</u> Although people living in this area - <u>37 households</u> - agreed with an open-close approach <u>during the 3<sup>rd</sup> round of consultations</u> , a mitigation measure is still proposed to ensure no intervention will take place without their agreement.	<u>Community Development Councils</u> will be formed with membership of all households benefitting from construction. The design of drainage sections will be managed in neighborhood sections which can be managed by these CDCs.	
AF principle 8: risk of temporary or permanent and full or partial physical displacement			In Khoroo 9, a flood <del>protection</del> <u>protection</u> wall in	<u>Have all possibly affected households sign that they agree with the intervention</u> <u>include clause in all contract that contractor will comply to human rights markers. Although inhabitants agree beneficiaries of</u>	

		<p>planned. <del>It need to be ensured</del>The 3<sup>rd</sup> round of consultations confirmed this is built- will be constructed on public land-or that the land owner agrees with the intervention</p> <p>the drainage interventions in Khoroo 7 and 9 already proposed and agreed with the intervention in-principle(during the 2<sup>nd</sup> and 3<sup>rd</sup> round of consultations, all beneficiaries should agree once the project starts and consequently sign an agreement. Besides that, an alternative drainage plan will be developed (and has already been considered)- and can be further developed if inhabitants ultimately don't agree with the existing plan.</p> <p>Include clause in all contracts that contractors will comply to human rights markers (and all other safeguard areas</p> <p>During construction, temporary (1-2 months) resettlement may be required. For this purpose, compensation for rental costs are included in the budget for this section of the drainage (which is budgeted double for this purpose and the open-close approach)</p> <p>The UN-Habitat Human rights officers and PAC will check compliance.</p>			
AF Principle nr 6: Risk of employing underage people and to support under-payment and unsafe working conditions	P= 2 I = 3	Low (6)	<p>There is limited knowledge of safe work conditions. However, there is no reason companies and people won't adhere to ILO standards. <del>Te</del>How- ever, to ensure they will, a mitigation measure is proposed</p> <p>Employment and working conditions following ILO standards will be included in legal agreements with all subcontractors; The community contracts to be signed with Community Development Councils will state that under aged children will not be employed and all workers will be paid equal wage.</p> <p>Ensure that ICSC international health and safety standards are clearly accessible and understood.</p>	<p>signs during work (every 2</p> <p>Local Project manager</p>	<p>Formatted: Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers</p> <p>Formatted: Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers</p> <p>Formatted: Font: Not Bold</p> <p>Formatted: Font color: Text 1</p> <p>Formatted: Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers</p> <p>Formatted: Don't adjust space between Latin and Asian text, Don't adjust space between Asian text and numbers</p> <p>Formatted: Footer, Right: 0.25"</p>
AF Principle nr 13: Risk that elements of activity construction, operation, or decommissioning pose potential safety risks to local communities					



			<p>e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.</p> <p>Before construction, it will be checked where high voltage wires are located underground. <u>This concern was raised by beneficiaries during the 3<sup>rd</sup> round of consultations</u></p> <p>Where needed, drainage channels will be fenced to avoid children falling in. <u>This concern was raised by beneficiaries during the 3<sup>rd</sup> round of consultations</u></p>	
AF principle nr 12: Risk that consumption of raw materials will have a negative effect (elsewhere)	<p>P= 2</p> <p>I = 1</p>	<p>Low</p> <p>(2)</p>	<p>The interventions will require cement, soil and rock- <u>(as identified by engineers)</u>. Although the practice is that these are purchased through Mongolian companies a mitigation measure is proposed to <del>ensure soil and rocks are not</del> acquired in areas that can have negative effects, such as from the river.</p>	<p>Discuss with companies and check source of material before purchase</p> <p><u>Bills/Materials on bills/BOQ's</u></p> <p>Before purchase</p>

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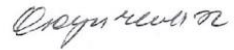




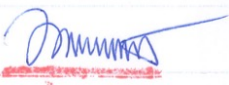
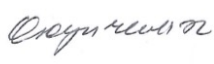

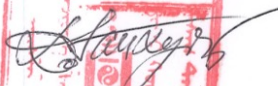

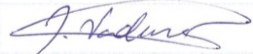
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<b>Khoroo Governors</b>			
Songinokhairkhan District Khoroo 7:	11 January 2018		
Bayanzurkh District Khoroo 9:	11 January 2018	 D. Gankhuyag.	
<b>UN-Habitat Project Manager</b>			
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<b>UN-Habitat Project Manager</b>			
Nadine Waheed		UN-Habitat ROAP Human Settlements Officer	

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TABLE 1: GENERAL INFORMATION	
16. Intervention	Resilient sanitation delivery (to reduce health impacts related to overflow of toilets)
17. Project number (if relevant)	Ulaanbaatar nr 2
18. Project location (village, districts, geographical coordination)	Khoroo 7, 9, 12, 13, 16, 24 and 25

TABLE 2: ACTIVITY / SUB-PROJECT DETAILS	
TECHNICAL INFORMATION (WHAT WILL BE DEVELOPED / CONSTRUCTED AND LOCATION DETAILS, LENGTH, SIZE, ETC.)	
19. Activity description and or asset to be developed	<input checked="" type="checkbox"/> Construct resilient toilets (per household) suitable for rock and soft/wet underground
20. Materials to be used	<input checked="" type="checkbox"/> Cement / cement blocks, and some other materials of limited quantity
21. Other technical specifications	<input checked="" type="checkbox"/> The toilets will be designed to withstand floods and to be suitable for women, elderly, disabled, etc, when needed.
22. Is an ESIA required by law?	<input checked="" type="checkbox"/> An ESIA is not required for this intervention
23. Who owns the land the activity is planned on and / or who uses the land and why?	<input checked="" type="checkbox"/> It will be on private plots. The toilets are typically placed next to the Ger or house.
24. Start date of activity / works	Year 1
25. End date of activity / works	Year 3

USE OF ASSETS (BENEFITS AND ACCESS)	
26. How will the asset be used	<input checked="" type="checkbox"/> One improved latrine per household
27. Interventions required for appropriate use of the asset(s)	<input checked="" type="checkbox"/> Select a design that is appropriate for withstanding floods at very low temperatures <input checked="" type="checkbox"/> Community organization and agreement on beneficiaries, including selection criteria for who will have the toilets <input checked="" type="checkbox"/> Raise awareness and train community members about risk overflowed toilets and related health risks and benefits of hand washing
28. Interventions required for sustainable management and maintenance of the asset(s)	<input checked="" type="checkbox"/> 10 % contribution from construction price to ensure ownership and to be used for replication <input checked="" type="checkbox"/> Community groups will be formed for implementation of projects (involving Khoroo/District officials) and to raise awareness / discuss disposal of sludge on roads, proper removal of sludge, not throwing waste in canals. <input checked="" type="checkbox"/> Formation of Primary Groups and Community Development Councils in areas where toilets and drainage being constructed in order to provide community structure and forum to discuss issues related to implementation and maintenance.



30. Have relevant local authorities been consulted	<p>22 <input type="checkbox"/> July 2017: Ulaanbatar Municipality; District Governors, Khoroo officials</p> <p>22 <input type="checkbox"/> December 2017: Ulaanbatar Municipality, District Governors, Khoroo officials</p> <p>Was emphasized that flood reduction / management is the main priority. Sanitation is recognized as a big problem, as well as waste management.</p>
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## ENVIRONMENTAL AND SOCIAL CONTEXT

<p>4</p> <p>Description of the environmental context and the main environmental issues on the site / in the area</p>	<p>In summer, when ice melts and rain falls, water comes down from the northern hills, leading to floods around gully's and rivers. These floods affect, houses, other assets and overflow of outdoor pit latrines, leading to heavily polluted water and soil, which in turn lead disease incidents, often affecting children. In the downhill / lower lying Khoroo's, another problem besides floods is stagnant water and groundwater coming up. This stagnant water, which is polluted due to overflow of the latrines, often from upstream, can stay for months and results in cars, ambulances, fire trucks, etc. not being able to enter the Khoroo. After the summer, the stagnant water freezes to the melt again in summer. Other environmental problems are extreme pollution and waste management. In winter, gullies or streams, which are then frozen, are often used as roads.</p>
<p>5</p> <p>Description of the social context and the main social issues on the site / in the area</p>	<p>In the target areas, poverty incidences are high and coping mechanism for floods are very limited. Knowledge of resilient latrines design is almost not existent and awareness of hygiene related to sanitation and hand washing is very low. Due to land pressure, newcomers often reside in informal areas in high risk areas such as riverbanks or at the foot of gullies. Land use plans don't really exist, especially at the Khoroo level. Most of the land is private / allocated to inhabitants. Due to ex-communist times, community organization is very limited. Women are generally very vocal and equally treated.</p>

**TABLE 3: CHECKLIST OF POTENTIAL RISK AREAS OF NON-COMPLIANCE WITHIN THE ADAPTATION FUND'S ENVIRONMENTAL AND SOCIAL PRINCIPLES**

## Adaptation Fund principle 1: Compliance with the Law

21. Is there a risk that the activity does not comply with an applicable domestic or international law?

## Adaptation Fund principle 2: Access and equity

61. Is there a risk that the activity would exclude any potentially affected stakeholders from fully participating in decisions that may affect them?
62. Is there a risk that the activity would impede access of any group to basic health services, clean water and sanitation, energy, education, housing, safe and decent working conditions, land rights, etc.?
63. Is there a risk that the activity does not provide fair and equitable access to benefits from the project to all affected stakeholders?
64. Is there a risk that the activity exacerbates existing inequities, particularly with respect to marginalized or vulnerable groups?

### Adaptation Fund principle 3: Vulnerable and marginalized groups

65. Are there any marginalized or vulnerable groups present among project beneficiaries?	Y	Formatted
66. Is there a likelihood that the activity would have inequitable or discriminatory adverse impacts on affected populations, particularly people living in poverty or marginalized or excluded individuals or groups?	N	Formatted
67. Could the activity potentially restrict availability, quality of and access to resources or basic services to marginalized individuals or groups?	N	Formatted
<b>Adaptation Fund principle 4: Human rights</b>		
68. Could the activity lead to adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population?	N	Formatted Table
69. Would the activity possibly affect land tenure arrangements and/or community based property rights/customary rights to land, territories and/or resources?	N	Formatted
<b>Adaptation Fund principle 5: Gender equality and women's empowerment</b>		
70. Is there a likelihood that the proposed activity would have adverse impacts on gender equality and/or the situation of women and girls?	N	Formatted
71. Would the activity potentially reproduce discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?	N	Formatted
72. Would the activity potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services?	N	Formatted Table
<b>Adaptation Fund principle 6: Core labour rights</b>		
73. Does the activity involve support for employment or livelihoods that may fail to comply with national and international labour standards (i.e. principles and standards of ILO fundamental conventions)?	Y	Formatted
<b>Adaptation Fund principle 7: Indigenous people</b>		
74. Are indigenous peoples present in the project area?	N	Formatted
75. Would the proposed activity potentially affect the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples?	N	Formatted
76. Would the activity adversely affect the development priorities of indigenous peoples as defined by them?	N	Formatted
77. Has there been an absence of culturally appropriate consultations on matters that may affect the rights and interests, lands, resources, territories and traditional livelihoods of the indigenous peoples concerned?	N	Formatted Table
<b>Adaptation Fund principle 8: Involuntary resettlement</b>		
78. Would the activity potentially involve temporary or permanent and full or partial physical displacement?	N	Formatted
79. Is there a risk that the activity would lead to forced evictions?	N	Formatted
80. Will the activity lead to economic displacement (loss of assets or access to assets that leads to loss of income sources or other means of livelihood)?	N	Formatted Table
<b>Adaptation Fund principle 9: Protection of natural habitats</b>		
81. Is the activity within or adjacent to critical habitats and/or environmentally sensitive areas, including legally protected areas (e.g. nature reserve, national park), areas proposed for protection, or recognized as such by authoritative sources and/or indigenous peoples or local communities?	N	Formatted
82. Would the activity potentially cause adverse impacts to habitats (e.g. natural, modified, and critical habitats) and/or ecosystems and ecosystem services?	Y	Formatted



83. Does the activity involve changes to the use of lands and resources that may have adverse impacts on habitats, ecosystems, and/or livelihoods?	N	Formatted Table
<b>Adaptation Fund principle 10: Conserving biodiversity</b>		
84. Could the activity lead to the reduction or loss of biological diversity?	N	Formatted
85. Would the activity pose a risk of introducing invasive and/or non-native species?	N	Formatted
86. Is monoculture foreseen?	N	Formatted
87. Would the activity pose risks to endangered species?	N	Formatted
<b>Adaptation Fund principle 11: Climate change</b>		
88. Will the activity result in significant greenhouse gas emissions or may it exacerbate climate change / maladaptation (e.g. negative effects in other areas)?	N	Formatted
<b>Adaptation Fund principle 12: Pollution and resource efficiency</b>		
89. Does the activity require significant consumption of raw materials, energy, and/or water?	N	Formatted
90. Would the activity potentially result in the generation of waste (both hazardous and non-hazardous)?	N	Formatted
91. Would the activity potentially result in the release of pollutants to the environment due to routine or non-routine circumstances with the potential for adverse local, regional, and/or transboundary impacts?	N	Formatted Table
92. Will the activity involve the application of pesticides?	N	Formatted
<b>Adaptation Fund principle 13: Public health</b>		
93. Would the activity result in potential increased health risks (e.g. from waterborne or other vector-borne diseases or communicable infections such as HIV/AIDS)?	N	Formatted Table
94. Would the activity pose potential risks to community health and safety due to the transport, storage, and use and/or disposal of hazardous or dangerous materials?	N	Formatted
95. Would elements of activity construction, operation, or decommissioning pose potential safety risks to local communities?	N	Formatted
<b>Adaptation Fund principle 14: Physical and cultural heritage</b>		
96. Will the proposed activity result in interventions that would potentially adversely impact sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g. knowledge, innovations, practices)?	N	Formatted
<b>Adaptation Fund principle 15: Land and soil erosion</b>		
97. Will the activity lead to the conversion of wetlands, waterways, or woodlots?	N	Formatted
98. Will the activity cause the clearing of natural vegetation and/or forest?	N	Formatted
99. Is there a risk that the activity leads to soil degradation?	N	Formatted
100. Is there a risk that the activity is designed without proper soil analysis and/or does not match soil capability?	N	Formatted



**Table 4: Identifying probability, impact, significance and risks mitigation measures**

Table partially filled out, to provide examples for project staff to complete the table fully. Please use the checklist (table 3) to identify risks

WHAT ARE THE POTENTIAL ENVIRONMENTAL AND SOCIAL RISKS?						
AF principle number and description of risks	Probability (P) and Impact (I) Score 1 - 5	Significance (= impact x probability) Low: 1-7 Med: 8-14 High: 15-25	Comment (also to identify significance of risk, i.e. evidence)	Mitigation measures proposed	Monitoring indicators	Frequency and responsibility for monitoring
AF Principle nr 2: risk that the activity would exclude any potentially affected stakeholders from fully participating in decisions that may affect them?	P= 1 I = 3	Low (3)	During consultations, it became clear that no specific group is treated differently. <u>Women, elderly, youth, disabled and female-headed households in poor areas have been consulted, also in focus groups.</u>	Community organization where everyone can participate, but quotas will be used to ensure different groups are included. Also, criteria for beneficiaries' selection will be established in advance.	Meeting attendance sheets and photographs.	Every meeting  Local Project-manager
AF Principle nr 3: Risk that some vulnerable affected groups may not participating in decisions making processes regarding design and planning of activities that may affect them	P= 1 I = 3	Low (3)	However, to ensure that informal settlers, poor people, etc. are involved in decisions that may affect them, a mitigation measure is proposed.  Elderly, disabled people and women requested to consider their needs in the designs of the latrines	Primary Groups membership will include all households benefitting from construction of improved latrines.  Involve different groups in the final design of the latrines		
AF Principle nr 6: Risk of employing underage people, underpayment and unsafe working conditions.	P= 2 I = 3	Low (6)	There is limited knowledge of safe work conditions. However, there is no reason companies and people won't adhere to ILO standards. To ensure they will, a mitigation measure is proposed	Employment and working conditions following ILO standards will be included in legal agreements with all subcontractors; the community contracts to be signed with Community Development Councils will state that under aged children will not be employed	Check contract and signs	before start of work and during work (every 2 months)  Local Project-manager

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AF Principle nr 13: Risk that elements of activity construction, operation, or decommissioning pose potential safety risks to local communities

and all workers will be paid equal wage.

Ensure that ICSC international health and safety standards are clearly accessible and understood. e.g. by putting clearly visible signs detailing health and safety standards to be located at projects sites and by supplying protective equipment.

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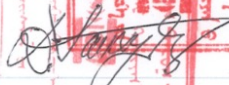



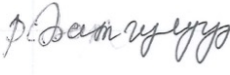
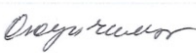
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<b>Khoroo governor</b>			
Sukhbaatar District Khoroo 12:	11 January 2018	Ts. DOLGORMAA	
Sukhbaatar District Khoroo 13:	11 January 2018	Ya. Ayurzed.	
Sukhbaatar District Khoroo 16:	11 January 2018	B. ERDENESUKH	
Bayanzurkh District Khoroo 9:	11 January 2018	D. Gankhuyag.	
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Songinokhairkhan District Khoroo 25:	11 January 2018	П.Бат-Уул	
Songinokhairkhan District Khoroo 7:	11 January 2018	О.Ойунбол	
<b>UN-Habitat Project Manager</b>			
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