



ADAPTATION FUND

AFB/PPRC.33/45

12 April 2024

Adaptation Fund Board
Project and Programme Review Committee
Thirty-third meeting
Bonn, Germany, 16-17 April 2024

Agenda item 23 b)

**REQUEST FOR REVISION OF EXECUTING ENTITY
AND PROJECT TARGET SITES AND
EXTENSION REQUEST FOR INNOVATION SMALL
GRANT PROJECT FOR CHILE
(AGCID)**

Background

1. During the thirty-fourth meeting, the Adaptation Fund Board (the Board) approved through Decision B.34/36 a one and half year small innovation grant project titled “Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region” in Chile submitted by the Agencia de Cooperación Internacional de Chile (AGCID), for a requested amount of US\$ 230,000. The overall objective of the project is to improve access to water during emergency situations in a low-income city (in the San Antonio Province), Valparaíso Region. As mandated by the decision, an agreement was prepared and signed between the Board and AGCID on 7 December 2020.
2. The transfer of fund was made in one lump sum for the implementation of the project for a total amount of US\$230,000, was released following signature of the grant agreement on 2 December 2020.
3. AGCID has submitted two project performance reports (PPRs) for the years 2022 and 2023.
4. Considering that project was approved during the COVID-19 pandemic, the project experienced a delay in project commencement caused by the COVID-19 pandemic, which kept Chile in a state of sanitary alert until 31 August, 2023, according to a decree. This affected the first year of implementation (2022) due to restrictions on circulation between cities. The project held its inception workshop on 9 March 2022.
5. The original completion date of the project was 9 September 2023. However, on 25 May 2023, a six-month COVID-19 extension was submitted by AGCID to the secretariat. In line with the Board Decisions B.35b/16 and B.40/69, the secretariat reviewed the request and found it to meet the criteria referred to in both decisions mentioned above. Consequently, the request for a six-month no-cost extension of the project completion date from 9 September 2023 to 9 March 2024 was approved, and 9 March 2024 was recorded by the secretariat as the new project completion date.
6. On 19 February 2023, AGCID shared a request for change of the Executing Entity (EE) and target sites. This was accompanied with an endorsement letter from the Designated Authority for Chile presented in Annex 1 of this document. It also included a request for a change in the project completion date presented in Annex 3. Responding to clarification requests from the secretariat, AGCID has submitted additional documents and information in March 2024 and April 2024.

Suggested change of executing entity and target sites

7. AGCID has summarized the reasons behind such a request for change in a justification note, along with a revised proposal with changes highlighted. The note is provided as annex 2 of this document and the revised proposal is included in Annex 2. According to these documents, the justification for the requests are as follows :

- (i) **Change of the EE from the Regional Government of Valparaíso to the Municipality of Quilpué, in the Valparaíso Region.** The justification provided for this change is due the significant delays experienced in the development of concrete activities due to inefficiencies the internal management by the EE (Regional Government of Valparaiso). This potential new EE (Municipality of Quilpué, in the Valparaíso Region) has experience in climate change projects and the technical capabilities necessary to proceed with the final stage of the project, which will enable the completion of the construction of the three (3) water points within the requested six-month extension and the overall project conclusion.
- (ii) **Change of the target area within the Valparaiso region from San Antonio to the Municipality of Quilpué, in the Valparaíso.** The justification provided for this change in target area is due to its identification as a low-income zone, with 12 urban sectors that suffer from water scarcity and a lack of efficient distribution systems in case of emergencies. With a population of 151,708 inhabitants (2017 Census), Quilpué is the third most populated city in the region, growing exponentially over the last decade and showcases a diverse community of vulnerable groups. During a water crises, Quilpué would have to be served by cistern trucks, either directly discharged by individuals or deposited in small plastic containers. This system is deemed inefficient and discriminatory, as it requires hour-long queues that put the elderly and caretakers at a particular disadvantage. Furthermore, valuable, and scarce resources are wasted as control valves pertaining to water flows are often left unattended and wind up broken.

Following a thorough review and evaluation, the pilot Water Point design is suitable for the new context as pursuant to the proposed project implementation. Although the City of Quilpué is located in another area of Valparaiso, the concept, description, and material conditions of the pilot design responds to the same problems found in both territories and generally observed throughout the Valparaíso Region, as related to water scarcity and the lack of technological solutions that provide new sources of water, such as rainwater. The construction plan, in accordance with the original administrative and technical directives, will be carried out expeditiously in order to fulfill the project implementation timeframe.

- (iii) **Request for extension of project completion date.** The justification for the extension request is to complete the construction of activities presented in the revised proposal. Accordingly, AGCID has requested a six-month extension of the project completion date from 9 March 2024 until 9 September 2024.

8. The above changes do not incur in additional costs and AGCID has committed to monitor any unanticipated Environmental and Social Policy-related risks that may arise from the proposed change in project location submitted by the Executing Entity and ad-hoc site visits, and to consult with local communities during field missions.

9. Should such request be approved, the objectives, indicators and targets would remain the same as initially planned, given that any change in targets and/or indicators beyond the first PPR is not allowed by paragraph 12 of the Annex 7 of the Operational Policies and

Guidelines.

Secretariat's review of the request

10. Considering the proposed amendment to the project's target areas, the proposal necessitated a technical review of the proposed changes. The findings of the technical assessment, along with the response from AGCID, are documented in Annex 5 of this report.

11. The Project encompasses the development of a collection point intended to facilitate water delivery during emergencies involving supply disruptions. This infrastructure will be constructed at three public schools within the Valparaíso Region. The Annual performance reports indicate that the project is advancing satisfactorily towards significant milestones. Furthermore, the Regional Government of Valparaíso (GORE) implemented a creative design contest to procure the architectural plans for the Water Point. The competition concluded with the selection of a winning design on March 30, 2023. This design not only fulfills the main purpose of water distribution via a storage tank but also integrates the use of eco-friendly, recycled materials along with renewable energy solutions.

12. The new target locations were identified through a collaborative approach, involving education personnel (administrators, teachers, and social workers), school communities (students' families), environmental civil society organizations, and neighborhood associations. The AGCID has committed to oversee the monitoring of unforeseen Environmental and Social Performance (ESP) risks. Following these comprehensive stakeholder consultations, the target localities—three municipal schools—have affirmed their commitments to sustain the pilot projects and guarantee equitable access.

13. The proficiency of the new Executing Entity (EE), the Municipal Corporation of Quilpué, has been substantiated by the presence of its Infrastructure and Projects Department. This department is tasked with managing infrastructure modifications, executing new constructions, and implementing projects within schools, thereby justifying its competency as the new EE.

14. The suggested modifications will not incur additional costs. Moreover, the secretariat recognizes that these changes have received endorsement from the Designated Authority of Chile, as documented in Annex 1.

15. Consequently, after evaluating the explanations furnished by AGCID in response to the technical review, the secretariat concludes that the request could be recommended for approval.

Recommendation

16. Having considered document AFB/PPRC.33/45, the PPRC may wish to consider and recommend to the Board to

- (a) Approve the change in executing entity and target area for the project "Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region" as requested by the Agencia de Cooperación Internacional de Chile (AGCID);
- (b) Request the secretariat to draft an amendment to the agreement between the Board and AGCID to reflect changes made under a);
- (c) Approve the request for a six-month no-cost extension of the project completion date

from 9 March 2024 to 9 September 2024.

Annexes

- 1) Letters of endorsement from the Designated Authority for Chile
- 2) Justification sent by AGCID on the request for change in project outputs
- 3) Request for extension of project completion date
- 4) Revised proposal
- 5) Technical review and IE response sheet

Annex 1 - Letter of endorsement from the Designated Authority of Chile



Letter of Endorsement by Government of Chile

Letter N° **240628**

Santiago, **12 FEB 2024**

To: The Adaptation Fund Board
c/o Adaptation Fund Board Secretariat
Email: afbsec@adaptation-fund.org
Fax: 202 522 3240/5

In my capacity as designated authority for the Adaptation Fund in Chile, I confirm that the project proposal "Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region" is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Chile.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by AGCID and executed by the Municipality of Quilpué.

Sincerely,

Maritza Jadrijevic Girardi
Head (S) Climate Change Division
Ministry of Environment of Chile

GSG/mrs

Cc:

- AGCID
- Archivo cambio climático

Annex 2 - Justification sent by AGCIG for requested changes in EE and target areas**JUSTIFICATION NOTE**

Project Title: *"Water Security: Improving Water Access during Emergency Situations in San Antonio Province, Valparaíso Region"*

Revised Project Title: *"Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region"*

- ***Executing Entity Change***

Initially, the Executing Entity (EE) of the project was the Regional Government of Valparaíso, an autonomous body whose authority is subject to popular election, and whose main function is the overall administration of the region.

Throughout the project execution process, there were constant delays in the internal management by the Executing Entity (EE), which affected the development of activities according to the initially presented schedule to the Adaptation Fund.

In order to reaffirm our commitment to fulfilling the obligations undertaken with the Adaptation Fund through the Small Grant Agreement, as stated in our letter sent on 29.12.2023, we have successfully identified a new IE, the Municipality of Quilpué, in the Valparaíso Region, while maintaining the project in the same region as originally approved by the Fund. This potential new IE has experience in Climate Change Effects Mitigation projects and the technical capabilities necessary to proceed with the final stage of the project, which will enable the completion of the construction of the three (3) water points within the requested six-month extension and the overall project conclusion. Additionally, it is a municipality facing the effects of water scarcity and was recently impacted by Chile's deadly wildfires that wiped out neighborhoods.

It is important to note that if the Board of the Adaptation Fund approves this change of EE, the modification will not incur any additional costs within the available project budget, nor will it affect the project objectives.

- ***Project End Date Change***

09 September 2024

This proposed revised completion date would provide both, NIE and EE, the necessary timeline to implement the pending activities and to bid for the construction of the three Pilots.

- ***Project target area change***

The Marga Marga Province, has been selected for the implementation of the project as a vulnerable locality in the Valparaíso Region. The decision to intervene in this area responds to its identification

as a low-income zone, with 12 urban sectors that suffer from water scarcity and a lack of efficient distribution systems in case of emergencies.

Quilpué is located to the north of the City of Viña del Mar and to the west of the City of Villa Alemana, encompassing a surface area of 536.7 km² and is the capital of the Marga Marga Province. Furthermore, Quilpué extends to the extreme northwest of the city area, covering a strip of the Marga Marga Valley and forms part of the conurbation with the cities of Valparaíso, Viña del Mar and Villa Alemana. In practice, this conurbation layout results in the City of Quilpué playing an essential role regarding housing and basic service provisions.

Together with its urban area, Quilpué extends towards the northwest end of the Marga Marga Valley and towards the Chilean Coastal Range along the Colliguay Valley. This area highlights important ecosystems with endemic flora and fauna and forms part of the greater Valparaíso metropolitan area while also being home to the La Campana-Peñuelas Biosphere Reserve, recognized by the UNESCO's Man and the Biosphere (MAB) Programme in 1984.

With a population of 151,708 inhabitants (2017 Census), Quilpué is the third most populated city in the region, growing exponentially over the last decade and showcases a diverse community with indigenous peoples and migrant populations.

Annex 3 Extension Request

ANNEX A: REQUEST FOR EXTENSION OF CONCRETE ADAPTATION PROJECT/PROGRAMME*Request for extension of project/programme completion date*

Implementing Entity Name: Agencia Chilena de Cooperación Internacional para el Desarrollo (AGCID)			
AF Project/programme ID:			
Project/programme Title: Water Security: Improving Water Access during Emergency Situations in San Antonio Province, Valparaíso Region.			
Country: Chile			
Project/Programme Approval (date)	10-11 October 2019		
Expected Project/programme Completion (date)	March 09 2024	Proposed Revised Completion (date):	September 09 2024

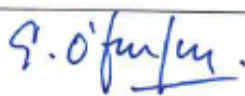

Reasons/justifications for the extension of project/programme completion:

Initially, the Executing Entity (EE) of the project was the Regional Government of Valparaíso, an autonomous body whose authority is subject to popular election, and whose main function is the overall administration of the region. Throughout the project execution process, there were constant delays in the internal management by the Executing Entity (EE), which affected the development of activities according to the initially presented schedule to the Adaptation Fund.

In order to reaffirm our commitment to fulfilling the obligations undertaken with the Adaptation Fund through the Small Grant Agreement, as stated in our letter sent on 29.12.2023, we have successfully identified a new IE, the Municipality of Quilpué, in the Valparaíso Region, while maintaining the project in the same region as originally approved by the Fund. This potential new IE has experience in Climate Change Effects Mitigation projects and the technical capabilities necessary to proceed with the final stage of the project, which will enable the completion of the construction of the three (3) water points within the requested six-month extension and the overall project conclusion. Additionally, it is a municipality facing the effects of water scarcity and was recently impacted by Chile's deadly wildfires that wiped out neighborhoods.

It is important to note that if the Board of the Adaptation Fund approves this change of EE, the modification will not incur any additional costs within the available project budget, nor will it affect the project objectives. This proposed revised completion date would provide both, NIE and EE, the necessary timeline to implement the pending activities and to bid for the construction of the three Pilots.

Implementing Entity certification

This request has been prepared in accordance with Adaptation Fund policies and procedures, has been agreed by participating executing entities, and the designated authority (DA) has been notified.	
 Enrique O'Farrill-Julien, Executive Director, AGCID Valeria Matus Mombérg, Acting Head of Department, AGCID 	
Date: (February 19, 2024)	+56228275700 mibarra@agci.gob.cl



PROGRAMME ON INNOVATION: SMALL GRANTS PROJECTS THROUGH DIRECT ACCESS MODALITY

REQUEST FOR PROJECT 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 must be fully prepared when the request is submitted.

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



ADAPTATION FUND

PART I: PROJECT INFORMATION

Country: **Chile**

Title of Project: **Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region**

National Implementing Entity: **Chilean International Cooperation Agency for Development**

Executing Entity/ies: Municipality of Quilpué

Amount of Financing Requested: **230,000 (in U.S Dollars Equivalent)**

Project Background and Context:

Water is at the core of sustainable development and safe access to water is integral to basic human needs. From food and energy security to human and environmental health, water contributes to improving social wellbeing and inclusive growth, affecting the livelihoods of billions around the world. The **Regional Government of Valparaíso** has identified as one of the problems that severely affect the region, the “tension due to a shortage of water resources”¹. During water shortages, urban populations are highly dependent on secondary distribution channels. Thus, inefficient and insecure emergency distribution systems subject urban communities to extreme vulnerabilities and grave consequences to human health and well-being.

The Valparaíso Region has been particularly affected by shifting climate conditions. During the past decade a marked decrease in rainfall has been recorded throughout the region. The situation of water scarcity in various parts of the region endangers the population’s water supply and negatively impacts economic activity. Between 2007 and 2014, it is estimated that more than 6,000 hectares of fruit have perished, resulting in the loss of more than 5,000 jobs, 175 million dollars in investments and more than 100 million dollars annually in exports. As a result, the Government of Chile declared in August of 2019 the Valparaíso Region as a “Drought Catastrophe Zone” in the wake of one of the worst droughts during the past half-century².

¹ *Regional Development Strategy (RDS)* of the Regional Government of Valparaíso, approved in May 2012.

² <https://radio.uchile.cl/2019/08/08/gobierno-decreta-zona-de-emergencia-agricola-en-la-region-de-valparaiso/>

With the aim to address some of the most pressing problems, the **Regional Development Strategy** of the Regional Government of Valparaíso seeks to procure “sustainable management of water in response to the demands of the population and their productive activities”. Accordingly, in 2014 the **Regional Innovation Strategy** was designed and incorporates the challenge of “innovation in the management of energy and water”. The aforementioned strategy was adopted as a commitment at the regional level, favoring the promotion of “efficient use and technologies that improve water storage, distribution, purification, reuse and savings”.

Recently, the **the Regional Policy of Development and Water Sustainability for the Valparaíso Region** was approved and sets a landmark as the first regional policy in Chile to specifically address the problem of water scarcity in the country. This regional policy establishes three central pillars: 1) Security and increase of water supply; 2) Sustainable water demand; and 2) Improved governance on water management.

The project centers on improving safe access to water during emergency situations by means of developing appropriate and cost-efficient solutions that currently exist in a competitive market context.

The aim of the project seeks to develop urban points for water distribution that can operate during catastrophes with easily replicable parts. These facilities will allow emergency tanker trucks to discharge and supply water to local populations in a safe and efficient manner, while also ensuring water quality. The project considers the integration of a screen/ interactive billboard for each point that allows for the implementation of an awareness campaign, sensitizing future users on a more sustainable use of water and a better management under shortages.



The Marga Marga Province, highlighted in pink, has been selected for the implementation of the project as a vulnerable locality in the Valparaíso Region. The decision to intervene in this area responds to its identification as a low-income zone, with 12 urban sectors that suffer from water scarcity and a lack of efficient distribution systems in case of emergencies.

Quilpué is located to the north of the City of Viña del Mar and to the west of the City of Villa Alemana, encompassing a surface area of 536.7 km² and is the capital of the Marga Marga Province. Furthermore, Quilpué extends to the extreme northwest of the city area, covering a strip of the

Marga Marga Valley and forms part of the conurbation with the cities of Valparaíso, Viña del Mar and Villa Alemana. In practice, this conurbation layout results in the City of Quilpué playing an essential role regarding housing and basic service provisions.

Together with its urban area, Quilpué extends towards the northwest end of the Marga Marga Valley and towards the Chilean Coastal Range along the Colliguay Valley. This area highlights important ecosystems with endemic flora and fauna and forms part of the greater Valparaíso metropolitan area while also being home to the La Campana-Peñuelas Biosphere Reserve, recognized by the UNESCO's Man and the Biosphere (MAB) Programme in 1984.

With a population of 151,708 inhabitants (2017 Census), Quilpué is the third most populated city in the region, growing exponentially over the last decade and showcases a diverse community with indigenous peoples and migrant populations. At the same time, Quilpué is a reflection of what has transpired in Chile over the past few decades, facing acute social, ecological, transit and urban challenges in addition to various problems caused by water scarcity.

As a result of extensive droughts over the past 14 years and a constant decrease in rainfall, estimated at 6% per decade with causes linked to climate change, ecosystem degradation, desertification and a lack of citizen awareness regarding water conservation, the city faces pressing water security issues and, thus, quality of life and sustainability challenges. Due to climate change, decreasing precipitation, increasing heat waves and rising projections of days of drought per year, Quilpué is transitioning from a Mediterranean to a semi-desert climate. This change creates a number of negative consequences including greater water and food vulnerability as well as increased poverty and disease, especially concerning the most vulnerable social sectors such as women and children.

Per the aforementioned, Quilpué confronts significant water security challenges that threaten the preservation of ecosystems that provide, purify and deliver water. These climate change impacts will continue to intensify due to prolonged droughts, floods, storms, landslides and other high-impact events that will affect both the quantity and quality of available water. Additionally, wildfire propagation will continue to intensify along with affect the ecosystems linked with water supply services. Current projections indicate that temperatures and days of drought annually will steadily increase in Quilpué, worsening from periods of drought from around five months to periods of drought to more than seven dry months annually corresponding to the periods 2020-2029, 2040-2049 and 2090-2099, respectively, compared to available data and historical records (PUCV 2019).

In recent years, at least 10 water shortages in Quilpué have been declared through government decrees, with below-normal rainfall during the last 14 years resulting in the longest drought on record in Chile. This situation poses high vulnerability and water insecurity, for the city as projections indicate that Quilpué will transition to an extremely high-water stress locality by 2040 (WRI, 2015). This structural situation of water scarcity

and socio-environmental crisis is further compounded by a lack innovation, technologies and infrastructures that may allow for a better and more efficient use of water in Quilpué. Additionally, the city is in need of new sources of water, such as rainwater, in order to ensure a sufficient supply regarding the availability and quality of water to vulnerable households or in emergency situations.

The project aligns with Quilpué's City Development Plan (PLADECO, for its abbreviation in Spanish) as well as its Environmental and Sustainability Policy. The PLADECO encompasses all actions aimed at satisfying the needs of the local community and promoting social, economic, environmental and cultural progress at the local level. Thus, ensuring environmental and sustainability policies and measures allow for greater social cohesion, empowerment and environmental awareness to promote equity and environmental justice, access to natural commons and ecosystem services. When combined, these actions allow for sustainable promotion of adaptive responses and climate change mitigation. Furthermore, the Municipality of Quilpué seeks to contribute to water security through a comprehensive approach, such as participatory territorial planning activities, especially the communal regulatory plan that establishes land use and generates the protection of natural and heritage elements that can be focused on water security. In addition, ordinances are issued on wetland protection and other environmental issues that can contribute to water security. Finally, in terms of education, the municipality generates formal and non-formal education activities that will be strengthened from the point of view of water culture.

According to the Chilean Internal Revenue Service (2018), the average monthly income of Quilpué is inferior to both the regional and national averages with the multidimensional poverty standing at 12% (National Socioeconomic Characterization Survey, 2017). With respect to the city's sociodemographic profile, Quilpué presents a marked trend of demographic aging, with a total of 22,246 people over 65 years of age (14.7% of the total population) (National Institute of Statistics, 2018). According to the Demographic Dependency Index (IDD) and the Index of Older Adults (IAM), Quilpué has a senior citizen population well above average percentages at both the regional and national levels (National Institute of Statistics, 2018). Additionally, and per the National Registry of Disability, as of March of 2022, there are 4,090 people with disabilities registered in the ~~the~~ city. Furthermore, Quilpué has a total of 16 informal settlements with 2,335 families, the fourth highest number of informal settlements among cities in the Valparaíso Region (TECHO-Chile, 2023).

As is the case of many other cities in the country, during a water crisis, Quilpué would have to be served by cistern trucks, either directly discharged by individuals or deposited in small plastic containers (See pictures below)³. This system is inefficient and discriminatory, as it requires hour-long queues that put the elderly and caretakers at a particular disadvantage. Furthermore, valuable and scarce resources are wasted as control valves pertaining to water flows are often left unattended and wind up broken.



The project seeks develop cost-efficient urban points for water distribution that can operate under a catastrophe with easily replicable parts.

The competition will be oriented to source innovative and cost-efficient designs for a “Water Point”. The aim of this competition is to build three urban points inside local schools and to include in each of them an interactive mechanism/display that can be used to educate potential users on sustainable water management techniques (see details of contest below).

As an added value to this initiative, the involvement of Community of Practice for Direct Access Entities (CPDAE) is a key component and considers the collection within the Community of certain techniques on efficient water use to later be displayed in the pilots. Furthermore, the winning Water Point design, along with its detailed construction plan, will be shared with the CPDAE, providing the Community with a feasible and cost-efficient prototype to be replicated elsewhere. The shared design will include a simplified alternative billboard to reduce constructions costs and facilitate scale-ups.

The aim is to build at least three pilots which will serve a dual purpose. On the one hand, they will offer a safer and more efficient way to access water under shortages. On the other hand, the interactive billboard/displays of the facilities will help to sensitize potential users on better water management techniques (referential image below).

The sustainability of this action will be promoted by sharing the design with the CPDAE.

³ The pictures are from a recent water crisis in the City of Osorno, due to source contamination.
<https://eluniversal.cl/noticia/4084/se-suspenden-las-clases-de-forma-indefinida-en-osorno-por-extenso-corte-de-agua>

Also, as the Chilean prototypes will include billboards, it has the potential to create allies with the private sector and observe pilot implementation in other regions. All benefited localities will have to safely protect pilots and ensure access to the local community when required.

A. Referential Water Point



The Government of Chile understands that this initiative is not a solution for the current water crisis in the region. Therefore, it is fundamental to develop technologies that may increase the general availability of the resource in order to achieve full water security.

There is the vision to use this AF experience to sensitize the local population and create public-private alliances that may allow Chile to implement a complementary project in the future related to:

- Wastewater treatment facilities
- Desalination plants
- Promotion of new accumulation techniques (i.e. atmospheric water)

B. Details of Competitive Contest

The project success considers to source cost-efficient solutions through a public competition aimed at Universities, Private Sector and Individuals (engineers and architects). The competition will be framed, in the axis "Social Innovation" and the cross-sectional area "Water Resource", of the *Regional Innovation Strategy of the Region of Valparaíso*. Successful participants will require to provide a detailed design and construction plan, as well as to accredit experience to build the pilot if required. The

winning design will have to be easily replicable and shared free of charge with the CPDAE.

Requirements:

1.- Design and technical justification of the pilot, aimed at:

- a) Store water for human consumption, being able to feed through the connection to the drinking water service and the delivery of tank trucks, as emergency case.
- b) Harvest water in a safe and innocuous way, presenting cleaning and purification technology as well as more efficient delivery mechanisms.
- c) Educate about the responsible use and consumption of water, through the incorporation of interactive mechanisms/displays.

The pilot must consider the use of Non-Conventional Renewable Energies for its operation and work as a meeting point.

2.-Construction Plans of the designed Pilot, adapted to the specific location, in accordance with legal construction norms for the zone and within the framework of time and resources established for this purpose.

The presentation of the initiative must clearly state how it meets the objectives set forth in the Regional Innovation Strategy for this topic, include a scalable model, a detailed budget and construction plans.

The initiatives postulated, will be initially reviewed by an evaluation guideline designed by the Chilean International Cooperation Agency for Development (AGCID) and the Division for Regional Planning and Development of Valparaíso (DIPLAD), to corroborate that they fulfil the minimum technical requirements. Thereafter an evaluation commission will be formed by 1 representative of Academia/Climate Change Centre, 1 of the Regional Government, 1 of the Municipality receiving the pilots, 1 of the Chilean International Cooperation Agency for Development; and 1 Adaptation Fund, to choose the final candidate. All process, criteria of selection and results will be made public to the community.

This project is in direct connection with two goals set in Valparaíso's *Regional Policy of Water Sustainability*. From the supply side, the project will contribute to "increasing infrastructure of water collection, conduction, distribution and / or accumulation" and from the demand side, will "improve the efficient use of water resource for human consumption".

Project Objective:

A. Improve access to water during emergency situations in a low-income city in the Marga Marga Province, Valparaíso Region.

1. Ensure existence of water points for distribution/accumulation to cope with urban water shortages.
2. Promote innovation and sensitize local communities on efficient water use for human consumption.

Project Components and Financing:

Project Components	Expected Concrete Outputs	Expected Outcomes
1. Improve urban distribution/accumulation of water during emergencies	Implement three innovative Water Points to discharge cistern Trucks.	Efficient Local Access in water shortage conditions.
2. Promote Innovation and sensitize local community on efficient use of water	Open competition to source the design a cost-effective Water Point that offers water access and it is an interactive source of relevant information.	The winning idea for water points will be awarded and a pilot implemented (component 1). The design will be shared with the CPDAE, providing them with a feasible prototype to be replicated elsewhere.

BUDGET	USD	%
Project Execution Cost	48,008	21%
Project Funds (Components 1-2)	174,992	76%
<i>Component 1. Improve urban distribution/accumulation of water during Emergencies</i>	136,992'000	
<i>Component 2. Promote Innovation and sensitize local community on efficient use of water</i>	38,000	
Project IE Fee	7,000	3%
Amount of Financing Requested	230,000	100%

Projected Calendar:

Milestones	Expected Dates
Start of Project Implementation	09 March 2022
Mid-term Review (if planned ⁴)	N/A
Project/Programme Closing	09 September 2024
Terminal Evaluation	09 March 2025

⁴ Mid-term review is required for projects with duration exceeding three years.

PART II: PROJECT JUSTIFICATION⁵

A. Describe the project components, particularly focusing on the concrete adaptation activities of the project, and how these activities contribute to climate resilience.

1. Improve urban distribution/accumulation of water during emergencies.

The project focuses on improving safe access to water under emergency situations by sourcing the most appropriate and cost-efficient existing solutions under a competitive system.

The aim is to develop urban points for water distribution that can function under a catastrophe and with easily replicable parts. These facilities will allow emergency cistern trucks to discharge and supply the local population in a safe and efficient manner, while assuring the quality of the resource. The project considers the integration of a publicity screen/interactive billboard for each point to allow for the implementation an awareness campaign, sensitizing future users on more sustainable water use and a better management under shortages.

The points diminish uncertainty, reduce walking distances to delivery points, reduce anxiety and quickens the assistance. Furthermore, most vulnerable users will be able to avoid long queues and will have a safer center to collect water for auto-consumption.

The points will be located inside local schools, as these sites are safe and hospitable infrastructures as well as accessible during emergencies. The aim is to build at least three pilots which will serve a dual purpose. On the one hand, they will offer a safer and more efficient way to access water under shortages. On the other hand, the interactive billboard/displays in the facilities will help to sensitize potential users on better water management techniques.

Users will be informed on how to reduce consumption, providing current and future generations with stronger tools to face water scarcity. Furthermore, encouraging a more sustainable behavior among urban water users will reduce the global amount required, avoiding some water-stress situations during dry periods. Acting in local schools will aid the development of more sustainable habits among the younger population for cultural transformation of better practices in the long run.

2. Promote Innovation and sensitize local community on efficient use of water.

The plan is to hold an open competition to design a Water Point that can be cost efficient for the City of Quilpué in the Marga Marga Province. The winner will see their idea implemented through three pilots. The successful design will be shared with the Community of Practice for Direct Access Entities (CPDAE), providing the Community with a cost-efficient prototype to be replicated elsewhere.

⁵ Parts II and III should jointly not exceed 10 pages.

It is planned to collect within the CPDAE techniques on efficient use of water for human consumption, adapt them to local conditions and share this information through Water Point interactive mechanisms/billboards, thus improving the knowledge sharing among members with similar problems.

B. *Describe how the project provides economic, social and environmental benefits, with particular reference to the most vulnerable communities, and vulnerable groups within communities, including gender considerations. Describe how the project will avoid or mitigate negative impacts, in line with the Environmental and Social Policy of the Adaptation Fund.*

Economically, the initiative will allow resource optimization between both private consumers and the public sector. At a governmental level, less remedial measures will be needed (efficient use of cistern trucks and less water wasted on delivery). As for the private consumer, the water point will increase availability of water and reduce the costs finding alternative sources.

Socially, ensuring water security has a direct impact on the wellbeing of the general population. As Quilpué has staunch water scarcity challenges, an aging population, notable multidimensional poverty indicators and informal settlements, the project contributes to meeting these issues by implementing measures that reduce vulnerability and improve resilience to water-related disasters. Moreover, as said points will be installed inside local schools, the intervention will sensitize the younger population regarding more sustainable habits.

Environmentally, this adaptation project provides a significant example of a more integrated and sustainable water management under emergency. Furthermore, sensitizing on efficient use of water within urban areas will put less strain on the surrounding ecosystems.

The positive impacts of this action are projected to spread rapidly and cost-effectively by sharing the design with the CPDAE. Also, as the Chilean prototypes will include billboards, it holds the potential to foster allies in the private sector and observe pilot implementation in other regions.

C. *Describe how the project encourages or accelerates development of innovative adaptation practices, tools or technologies. Describe how the project helps generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up.*

Both components ensure innovation. Component 2 supports the design of cost-effective water points by encouraging the submissions of project proposals. Component 1 will finance the pilots on the water delivery points and will educate through interactive platforms on more sustainable practices collected among the CPDAE.

D. *Please confirm whether the project meets relevant national technical standards, where applicable, such as standards for environmental assessment, building codes, etc., and is in line with the Environmental and Social Policy of the Adaptation Fund.*

Yes, the project meets the national adaptation climate change policy and complies with the environmental and social goals for the region. This initiative is in direct connection with two goals set in Valparaíso's *Regional Policy of Water Sustainability*. From the supply side it will contribute to achieve an "increasing in infrastructure of water collection, conduction, distribution and / or accumulation" and from the demand side, it "improves the efficient use of water resource for human consumption".

E. *If applicable, describe the learning and knowledge management component to capture and disseminate lessons learned.*

The knowledge management is very relevant for the project as it will collect information from the CPDAE on strategies to diminish water reduction and will also share the winning design to allow other members of the Community to replicate the facility. Furthermore, all project products (booklet and videos) will be translated into English, allowing a wider audience to be informed over project results and motivating them to replicate the Water Points.

F. *Describe how the project will engage, empower and/or benefit the most vulnerable communities and social groups, including gender considerations, in line with the Environmental and Social Policy of the Adaptation Fund.*

Under shortage conditions, without safe drinking water in households, it is disproportionately harder for elderly and single parents to gather the resource. Elderly persons often have impaired mobility and are unable to stand in lines for long periods of time; single parents, often women, in charge of young children cannot leave them unattended. Implementing Water Pilot inside public schools solve these problems. The Points will be safe guarded and of easy access, benefiting from all amenities of the school (chairs, shattered spaces, toilets).

G. *Provide justification for funding requested, focusing on the full cost of adaptation reasoning.*

The expected impacts on the urban water system resulting from climate changes in Chile have the potential to affect the different areas of Water Security either by conditioning the availability of water (in quantity and quality) or increasing the exposure of the communities to extreme events of hydro-meteorological origin which are expected to be more frequent and intense.

In this regard, it is requested adaptation funding to implement concrete innovative measures and a pilot strategy that has the potential to reduce the vulnerability of an urban communities in a highly vulnerable province, as is the case of the Marga Marga Province. The goal to achieve Secure Water Access under Emergency is realized by minimizing the exposure of a low-income communities as well as increasing accumulation /distribution mechanisms. At a behavioral level, the success of

sensitizing on more sustainable habits in younger populations can reduce future stress on the ecosystem and diminish the risks associated with the reduction of water availability (in quantity and quality) having population more resilient to future events.

Among the concrete benefits of the AF Funding the project we can expect:

- Decrease in expenses for public investment in palliative solutions (cistern trunks, plastic containers, etc.).
- Increase in quantity of water available under emergencies due the implementation of a smart delivery mechanisms.

There is the vision to use this AF experience to sensitize the local population and create public-private alliances that could allow Chile to implement a complementary project in the future, related to:

- Wastewater treatment facilities
- Desalination plants
- Promotion of new accumulation techniques (i.e. atmospheric water)

PART III: IMPLEMENTATION ARRANGEMENTS

A. *Describe the arrangements for project / programme implementation.*

The project is under the National Climate Change Adaptation Policy and the International UN Framework Convention on Climate Change. It will be implemented over a thirty- month period, beginning in 2022. The implementing entity (IE) for the programme will be the AGCID, as the National Implementing Entity (NIE) for the Adaptation Fund.

The AGCID will work in alliance with the Municipality of Quilpué. The AGCID's role in the framework of the project is fully in line with its leading institutional role as the national cooperation agency, supporting the implementation of development programs at a national and international level.

The **Project Coordinator** (PC) will be responsible for coordinating and monitoring the AF project, guided by the Department of Sustainable Development and Climate Change of the Municipality of Quilpué. The Project Board⁶ (PB) will ensure accountability of PC. The PC will write the interim and final reports.

The following services will be provided by the **PC**, assisted by the the Department of Sustainable Development and Climate Change of the Municipality of Quilpué:

- information and communication management to track and monitor progress (financial and substantive) of project implementation;
- monitoring project activities, including financial matters, and preparing monthly and quarterly progress reports, and organizing monthly and quarterly progress reviews; supporting the PB in organizing meetings;
- managing relationships with project stakeholders including local government, NGOs, government agencies, and others as required.

⁶ PB is comprised of regional relevant governmental units, local authorities and AGCID staff.

AGCID will ensure performance improvement; and along with the **Department of Sustainable Development and Climate Change of the Municipality of Quilpué**, approve work plan and procurement plan and closely monitor work plan presented by the PC, to ensure its fulfilment.

The **Project Board** (PB) will comprise of the Municipality of Quilpué, local authorities and AGCID staff. The Project Board will choose a member from its composition to serve as secretary to the PB. The PB will review project narrative reports as well as comment on any deviations from the approved plans. They have to approve the PC interim and final reports.

The following implementation services will be provided by **AGCID** for the AF project:

- oversight of portfolio implementation and reporting on budget performance;
- quality assurance and accountability for outputs and deliverables at the project development phase, during implementation and on completion;
- receipt, management and disbursement of AF funds in accordance with the financial standards of the AF;
- oversight and quality assurance of evaluation processes for project performance and ensuring that lessons learned/best practice are incorporated to improve future projects;

B. *Describe the monitoring and evaluation arrangements and provide a budgeted M&E plan.*

The project will be monitored through the set of M&E activities, budget of which is provided below. The monitoring will be carried out by the dedicated project coordinator and will be based on targets and indicators set in Projects Results Framework.

Following reports and evaluations will be developed throughout the project:

Monitoring Plan (MP) - should be approved by the NIE and the Department of Sustainable Development and Climate Change of the Municipality of Quilpué before commencing of the project activities and it will detail all activities to be executed, all milestones and goals which will be reached and dates for each indicator to be executed.

Quarterly Status Reports (QSR) - PC should submit QSRs to the NIE at the end of each operating quarter. QSRs will present how the indicators identified in project results framework are executed, what challenges it faces during the execution process and identify any constraints. Quarterly Status Reports will present monitoring process on executed activities.

External Audit Report (EAR) - based on the periodic financial statements, an external audit report will be prepared in accordance with Regulations set by the implementing entity.

Deliverable	Responsible	Cost
Monitoring plan, quarterly status reports, final report	Project Coordinator	46,008 USD
External Audit report	External Audit	7,000 USD

C. Include a simple results framework for the project proposal, including milestones, targets and indicators.

Result	Indicator	Baseline	Milestone	MOV
Component 1. Improve urban distribution/accumulation of water during Emergencies				
Outcome 1.1. Build Pilot of emergency "Water Point"	Number of Water Point Constructed	0	3	Quarterly and final Reports
	Number of people benefited for new infrastructure (gender disaggregated)	0	3000	
Outcome 1.2 Displayed awareness campaign on water challenges and consume reducing techniques	Number of days of public campaign	0	40	Quarterly and final Reports
	Number of schools/centres benefited	0	3	
Component 2. Promote Innovation and sensitize local community on efficient use of water				
Outcome 2.1 Repository of innovative practices for water management/reduce consumption	Repository of Innovative Ideas	0	1	Quarterly and final Reports
Outcome 2.2 winner of Water Point contest will design plans for pilot construction	Proposal to be implemented	0	1	Quarterly and final Reports

D. Demonstrate how the project / programme aligns with the Results Framework of the Adaptation Fund

Project Objective(s) ⁷	Project Objective Indicator(s)	Fund Outcome	Fund Outcome Indicator	Grant Amount (USD)
Ensure existence of water points for distribution/accumulation to cope with urban water shortages.	Number of Physical Infrastructures constructed	Outcome 4. Increased adaptive capacity within relevant development sector services and infrastructure assets Outcome 2. Strengthened institutional capacity to reduce risks associated with climate-induced socioeconomic and environmental losses	4.2. Physical Infrastructure improved to withstand climate change and variability-induced stress 2.1. Capacity of staff to respond to, and mitigate impacts of, climate-related events from targeted institutions increased	136,992 USD
Promote innovation and sensitize local communities on efficient water use for human consumption.	Percentage of targeted population informed	Outcome 3. 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	38,000 USD
Project Outcome(s)	Project Outcome Indicator(s)	Fund Output	Fund Output Indicator	Grant Amount (USD)
Outcome 1.1. Build Pilot of emergency "Water Point"	Number of Water Point Constructed Number of people benefited for new infrastructure (gender disaggregated)	Output 4: vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability	4.1.2. N° of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by sector and scale)	124,000 USD
Outcome 1.2 Displayed awareness campaign on water challenges and consume reducing techniques	Number of days of public campaign	Output 3: Targeted population groups participating in adaptation and risk reduction awareness activities	3.1. N° of news outlet in the local press and media that have covered the topic	12,992 USD
Outcome 2.1 Repository of innovative practices for water management/reduce consumption	Repository of Innovative Ideas	Output 6. targeted individual and community livelihood strategies strengthened in relation to climate change impacts, including variability	6.1.1. N° and type of adaptive assets (tangible or Intangible) created or strengthened in support of individual or community livelihood strategies	23,000.000 USD

The AF utilized OECD/DAC terminology for its results framework. Project proponents may use different terminology, but the overall principle should still apply.

Outcome 2.2 winner of Water delivery contest will aid with the pilot construction	Proposal to be implemented	Output 4: vulnerable development sector services and infrastructure assets strengthened in response to climate change impacts, including variability	4.1.2. N° of physical assets strengthened or constructed to withstand conditions resulting from climate variability and change (by sector and scale)	15,000 USD
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E. Include a budget, a budget on the Implementing Entity management fee use, and an explanation and a breakdown of the execution costs.

COMPONENTS

Activity	Unit	N° Unit	Unit Cost	Total USD
Component 1. Improve urban distribution/accumulation of water during Emergencies				136,992
Build 3 Pilots of emergency "Water Point" (Materials, Builders)	Pilots	3	39,333.3333	118,000
Awareness Campaign	Graphic Design	1	3,000	3,000
	Display	3	9,992	9,992
Engineer/Architect Support	Consultant	1	6,000	6,000
Component 2. Promote Innovation and sensitize local community on efficient use of water				38,000
Contest (Publicity, Logistics Coordinator, Final Event -Salon and catering-)	Event	1	5,000	5,000
Prize winner of Water delivery contest	Prize	1	10,000	10,000
Visibility	Visibility		11,000	11,000
Systematization of Project and Ideas (Booklet)	Consultant	1	3,000	3,000
Design of Booklet	Designer	1	1,000	1,000
Publication	Booklet	250	20	5,000
Translation into English of KM and Visibility Products	Full Service		3,000	3,000
TOTAL COMPONENTS 1-2				174,992

EXECUTION COSTS

Activity	Unit	N° Unit	Unit Cost	Total USD
<i>Execution Component. General Disbursements</i>				
Travels	Day Trip	20	100	2,000
Project Coordinator (Engineer)	Month	18	2,556	46,008
Total Execution Costs				48,008

IE FEE

Activity	Unit	N° Unit	Unit Cost	Total USD
<i>Execution Component. General Disbursements</i>				
Audit	Product	1	7,000	7,000
Total Execution Costs				7,000

SUMMARY

BUDGET	USD	%
Project Execution Cost	48,008	21%
Project Funds (Components 1-2)	174,992	76%
<i>Component 1. Improve urban distribution/accumulation of water during Emergencies</i>	136,992	
<i>Component 2. Promote Innovation and sensitize local community on efficient use of water</i>	38,000	
Project IE Fee	7,000	3%
Amount of Financing Requested	230,000	100%

F. Include a disbursement schedule with time-bound milestones.

Schedule Disbursement	Upon Signing Agreement	Inception Workshop	6 months after project start*	Grand Total
Scheduled date	January 2020	June 2020	December 2020	December 2020
Project Funds (1-5)	64,333	64,333	64,333	
Project IE Fee			7,000	
Project Execution Cost	15,000		15,000	
TOTAL	79,333	64,333	86,333	230,000

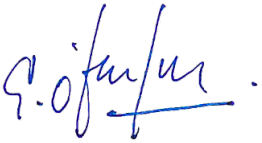
*Upon Launch event

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

A. **Record of endorsement on behalf of the government⁸** *Provide the name and position of the government official and indicate date of endorsement. If this is a regional project/programme, list the endorsing officials all the participating countries. The endorsement letter(s) should be attached as an annex to the project/programme proposal. Please attach the endorsement letter(s) with this template; add as many participating governments if a regional project/programme:*

<p>Maritza Jadrijevic Girardi <i>Acting Head of Climate Change Office, Designated Authority, Ministry of Environment</i></p>	<p>Date: 12 February 2024</p>
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B. **Implementing Entity certification** *Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person’s name, telephone number and email address*

<p>I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing Chilean National Adaptation Plan and its Sectoral Adaptation Plan for Cities, 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>ENRIQUE O'FARRILL-JULIEN Executive Director, Chilean International Cooperation Agency for Development (Implementing Entity Coordinator)</p>	
<p>Date: 19/02/2024</p>	<p>Tel. and email: +56 2 2 827 5748/ eofarrill@agci.gob.cl</p>
<p>Project Contact Person: Marco Ibarra Orellana</p>	
<p>Tel. And Email: +56 2 2 827 5759/ mibarra@agci.gob.cl</p>	

⁸ 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.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Innovation Small Grant

Country/Region:	Chile	
Project Title:	Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region	
Thematic Focal Area:	Water Management	
Implementing Entity:	Chilean International Cooperation Agency for Development	
Executing Entity:	Municipality of Quilpué	
AF Project ID:	AFRDG00046	
IE Project ID:		Requested Financing from Adaptation Fund (US Dollars): 230,000
Reviewer and contact person:	Alyssa Gomes	Co-reviewer(s):
IE Contact Person:	Marco Ibarra	

Technical Summary:	<p>The project "Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region" aims to improve access to water during emergency situations in a low-income city (in the Marga Marga Province, Valparaíso Region. This will be done through the two components below:</p> <p><u>Component 1:</u> Improve urban distribution/accumulation of water during emergencies (USD 136,992);</p> <p><u>Component 2:</u> Promote Innovation and sensitize local community on efficient use of water (USD 38,000);</p> <p><u>Requested financing overview:</u></p> <p>Project/Programme Execution Cost: USD 15,008 Total Project/Programme Cost: USD 223,000 Implementing Fee: USD 7,000 Financing Requested: USD 230,000</p> <p>The project, initially titled "Water Security: Improving Water Access during Emergency Situations in San Antonio Province, Region of Valparaíso," was approved during the thirty-fourth meeting of the Board on October 11, 2019. The project's inception workshop took place on March 9, 2022. It was expected to span 18 months, from</p>
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	<p>March 2022 to September 2023, with two work phases: "Design and Preparation" and execution of workshops and pilot project construction.</p> <p>Initially, the Regional Government of Valparaíso was designated as the Executing Entity (EE). However, significant internal management delays by the EE resulted in disruptions to the project's planned timeline. Consequently, a new Executing Entity, the Municipality of Quilpué in the Valparaíso Region, was identified to ensure project continuity. This decision was made while maintaining the project within the same region as originally approved by the Fund. The Municipality of Quilpué was selected based on its technical capabilities, as outlined in the justification note provided. The new EE will oversee the final stage of the project, including the completion of the construction of three water points within the requested six-month extension period. Quilpué, facing water scarcity effects and recently impacted by Chile's devastating wildfires, provides an appropriate context for the project's objectives.</p> <p>The review of the project's major changes highlighted various concerns, including the need for clarification regarding the suitability of the winning Water Point design and its detailed construction plan for the new context. Additionally, there is a requirement for further information regarding the competence of the new Executing Entity, the responsiveness of the design to the new socio-economic context, execution costs, and adherence to the Fund's Environmental and Social Policy and Gender Policy. These matters were discussed in numerous Clarification Requests (CRs) and Corrective Action Requests (CARs) raised during the review process.</p> <p>The review finds the CARs and CRs have been sufficiently addressed.</p>
Date:	22 March 2024

Review Criteria	Questions	Comments March 2024	Comments April 2024
Country Eligibility	1. Is the country party to the Kyoto Protocol?	<p>Yes</p> <p>The Valparaíso Region in Chile (target region) is affected by changing shifting climate conditions. There has been a delay of in rainfall in the has been recorded throughout the region, during the past the last decade. The situation of water scarcity in various parts of the region and its</p>	-

		territory has endangered the population's water supply for the population and has negatively impacted productive economic activity.	
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes.	-
	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? ¹	<p>Yes.</p> <p>To address some of the most pressing problems, in 2014 the Regional Innovation Strategy was designed and incorporates the challenge of "innovation in the management of energy and water". It is the first regional policy in Chile to specifically address the problem of water scarcity through three central pillars: 1) Security and increase of water supply; 2) Sustainable water demand; and 2) Improved governance on water management.</p> <p>The aim of the project is developing urban points for water distribution that can operate during</p>	

¹ A concrete adaptation project/programme is defined as a set of activities aimed at addressing the adverse impacts of and risks posed by climate change. The activities shall aim at producing visible and tangible results on the ground by reducing vulnerability and increasing the adaptive capacity of human and natural systems to respond to the impacts of climate change, including climate variability. Adaptation projects/programmes can be implemented at the community, national, regional and transboundary level. Projects/programmes concern activities with a specific objective(s) and concrete outcome(s) and output(s) that are measurable, monitorable, and verifiable. (Source: Operational Policies and Guidelines, amended October 2017)

		<p>catastrophes with easily replicable parts. These facilities will allow emergency tanker trucks to discharge and supply water to local populations in a safe and efficient manner, while also ensuring water quality. The project considers the integration of a screen/ interactive billboard for each point that allows for the implementation of an awareness campaign, sensitizing future users on a more sustainable use of water and a better management under shortages.</p> <p>The revisions proposed relate to the change in target province in the Vaparaíso region where the cost-efficient urban points for water distribution will be piloted and tested. The original target province was San Antonia and the new proposed target local is the Marga Marga province in the low-income city of Quilpué.</p> <p>The main rationale for change in the target province is related the need to change the EE for project. As mentioned in the justification note for EE change, the project experienced constant delays in the internal management by the EE which affected the development of activities. The IE therefore identified a new EE, the Municipality of</p>	
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		<p>Quilpué, in the Valparaíso Region, while maintaining the project in the same region as originally approved by the Fund.</p> <p>While the while there might be a strong justification for piloting the intervention in the new target city of Quilpué, given its significant water security challenges to ecosystems that purify and deliver water, water insecurity among local communities and alignment with the Quilpué's City Development Plan. A few clarifications are requested:</p> <p>The aim of the competition was to build three urban points inside local schools/centers, and to include in each of them an interactive mechanism/display that can be used to educate potential users on sustainable water management techniques.</p> <p>CR1: Kindly ensure there is an explanation provided that clearly illustrates the suitability of the winning Water Point design, along with its detailed construction plan, for the new context.</p> <p>CR2: Please confirm whether the three target locations for building</p>	<p>CR1: Cleared, as per the justification in the response sheet information provided on pages 4 and 5.</p> <p>CR2: Cleared, as per the details provided on page 11 and the clarification in the response sheet. Target areas are 3 schools in the</p>
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		<p>water points have been identified in Quilpué?</p> <p>CAR1: Please provide a description of the outcomes resulting from environmental and social screening measures, as well as stakeholder consultations, conducted for the new province.</p> <p>CR3: We kindly request an explanation and justification note regarding the competency of the new Executing Entity to effectively carry out the proposed activities.</p> <p>All benefiting localities will have to safely preserve the pilots and ensure access to the local community when required (pages 14-15).</p> <p>CR4: Please elaborate on the measures planned to ensure that the new target localities are committed to maintaining the pilots and ensuring equitable access for the benefiting community.</p>	<p>Education Area of the Municipal Corporation of Quilpué</p> <p>CAR1: Cleared, as per the explanation in the response sheet detailing the process of stakeholder consultation.</p> <p>CR3: Cleared, a justification is included in the response sheet and Annex 2.</p> <p>CR4: Cleared. The planned measures are described in the response sheet of the proposal.</p>
	<p>3. Does the project encourage or accelerate development of innovative adaptation practices, tools and technologies?</p>	<p>Yes.</p> <p>The rationale of the originally approved project remains the same and is justified as an innovation project.</p>	-

	4. Does the project help generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?	CR5: Kindly provide clarification on the scale-up plan/strategy for implementing the intervention.	CR5: Cleared. The scale-up strategy has been described in the response sheet.
	5. Does the project engage, empower and/or benefit the most vulnerable communities and social groups?	<p>The new target location, Quilpué, has an aging population, notable multidimensional poverty indicators and informal settlements. The water points will be installed inside local schools, the intervention will sensitize the younger population on regarding more sustainable habits. (pages 14-15).</p> <p>CR6: Please provide clarification on the community-led management measures established to ensure equitable access to water. Additionally, explain how the project will mitigate the tragedy of the commons phenomenon related to the shared resource.</p>	CR6: Cleared, as per the information provided in the response sheet and pages 12 and 13 of the proposal.
	6. Does the project advance gender equality and the empowerment of women and girls?	CR7: Kindly clarify the project's gender responsiveness throughout the competition process, such as initiatives to foster women as entrepreneurs, the criteria used in selecting the winning model (in order to ensure, importantly, that the winning models will adequately serve women and girls), and the intended gender-responsive approaches during the implementation of the pilots.	CR7: Cleared, as per the explanation in the response sheet and pages 12-13 of the proposal.

Resource Availability	1. Is the requested project funding within the parameters for small grants set by the Board?	Yes.	
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project budget before the fee?	Yes, the management fee is at 3.1% the total budget before fee for single projects	
Implementation Arrangements	1. Is the project submitted through a National Implementing Entity accredited by the Board?	Yes.	-
	2. Is the timeframe for the proposed activities adequate?	An extension request has been submitted to extend the project from 9 March 2024 to 9 September 2024 CR8: Kindly provide clarification on the reasonableness of the proposed extension duration, ensuring it allows adequate time for construction, piloting, training/ capacity building, demonstration, and learning capture activities.	CR8: Cleared. The agency has clarified that 6 month is sufficient to conduct the construction activities of the 3 pilots.
	3. Is a summary breakdown of the budget for the proposed activities included?	CAR2: The project execution costs amount to 48,008 USD (21.5%) which exceeds 9.5% of the total budget requested before the implementing entity fees. Please revise.	CAR2: Cleared.



ADAPTATION FUND

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Innovation Small Grant

Country/Region:	Chile	
Project Title:	Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region	
Thematic Focal Area:	Water Management	
Implementing Entity:	Chilean International Cooperation Agency for Development	
Executing Entity:	Municipality of Quilpué	
AF Project ID:	AFRDG00046	
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Reviewer and contact person:	Alyssa Gomes	Co-reviewer(s):
IE Contact Person:	Marco Ibarra	

Technical Summary:	<p>The project "Water Security: Improving Access to Water during Emergency Situations in the City of Quilpué, Valparaíso Region" aims to improve access to water during emergency situations in a low-income city (in the Marga Marga Province, Valparaíso Region. This will be done through the two components below:</p> <p><u>Component 1:</u> Improve urban distribution/accumulation of water during emergencies (USD 136,992);</p> <p><u>Component 2:</u> Promote Innovation and sensitize local community on efficient use of water (USD 38,000);</p> <p><u>Requested financing overview:</u></p> <p>Project/Programme Execution Cost: USD 48,008 Total Project/Programme Cost: USD 223,000 Implementing Fee: USD 7,000 Financing Requested: USD 230,000</p> <p>The project, initially titled "Water Security: Improving Water Access during Emergency Situations in San Antonio Province, Region of Valparaíso," was approved during the thirty-fourth meeting of the Board on October 11, 2019. The project's inception workshop took place on March 9, 2022. It was expected to span 18 months, from</p>
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	<p>March 2022 to September 2023, with two work phases: "Design and Preparation" and execution of workshops and pilot project construction.</p> <p>Initially, the Regional Government of Valparaíso was designated as the Executing Entity (EE). However, significant internal management delays by the EE resulted in disruptions to the project's planned timeline. Consequently, a new Executing Entity, the Municipality of Quilpué in the Valparaíso Region, was identified to ensure project continuity. This decision was made while maintaining the project within the same region as originally approved by the Fund. The Municipality of Quilpué was selected based on its technical capabilities, as outlined in the justification note provided. The new EE will oversee the final stage of the project, including the completion of the construction of three water points within the requested six-month extension period. Quilpué, facing water scarcity effects and recently impacted by Chile's devastating wildfires, provides an appropriate context for the project's objectives.</p> <p>The review of the project's major changes highlighted various concerns, including the need for clarification regarding the suitability of the winning Water Point design and its detailed construction plan for the new context. Additionally, there is a requirement for further information regarding the competence of the new Executing Entity, the responsiveness of the design to the new socio-economic context, execution costs, and adherence to the Fund's Environmental and Social Policy and Gender Policy. These matters were discussed in numerous Clarification Requests (CRs) and Corrective Action Requests (CARs) raised during the review process.</p>
Date:	22 March 2024

Review Criteria	Questions	Comments
Country Eligibility	1. Is the country party to the Kyoto Protocol?	<p>Yes</p> <p>The Valparaíso Region in Chile (target region) is affected by changing shifting climate conditions. There has been a delay of in rainfall in the has been recorded throughout the region, during the past the last decade. The situation of water scarcity in various parts of the region and its territory has endangered the population's water supply for the population and has negatively impacted productive economic activity.</p>
Project Eligibility	1. Has the designated government authority for the Adaptation Fund endorsed the project/programme?	Yes.

	<p>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?¹</p>	<p>Yes.</p> <p>To address some of the most pressing problems, in 2014 the Regional Innovation Strategy was designed and incorporates the challenge of “innovation in the management of energy and water”. It is the first regional policy in Chile to specifically address the problem of water scarcity through three central pillars: 1) Security and increase of water supply; 2) Sustainable water demand; and 2) Improved governance on water management.</p> <p>The aim of the project is developing urban points for water distribution that can operate during catastrophes with easily replicable parts. These facilities will allow emergency tanker trucks to discharge and supply water to local populations in a safe and efficient manner, while also ensuring water quality. The project considers the integration of a screen/ interactive billboard for each point that allows for the implementation of an awareness campaign, sensitizing future users on a more sustainable use of water and a better management under shortages.</p> <p>The revisions proposed relate to the change in target province in the Vaparaíso region where the cost-efficient urban points for water distribution will be piloted and tested. The original target province was San Antonio and the new proposed target local is the</p>
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¹ A concrete adaptation project/programme is defined as a set of activities aimed at addressing the adverse impacts of and risks posed by climate change. The activities shall aim at producing visible and tangible results on the ground by reducing vulnerability and increasing the adaptive capacity of human and natural systems to respond to the impacts of climate change, including climate variability. Adaptation projects/programmes can be implemented at the community, national, regional and transboundary level. Projects/programmes concern activities with a specific objective(s) and concrete outcome(s) and output(s) that are measurable, monitorable, and verifiable. (Source: Operational Policies and Guidelines, amended October 2017)

Marga Marga province in the low-income city of Quilpué.

The main rationale for change in the target province is related to the need to change the EE for the project. As mentioned in the justification note for the EE change, the project experienced constant delays in the internal management by the EE which affected the development of activities. The IE therefore identified a new EE, the Municipality of Quilpué, in the Valparaíso Region, while maintaining the project in the same region as originally approved by the Fund.

While there might be a strong justification for piloting the intervention in the new target city of Quilpué, given its significant water security challenges to ecosystems that purify and deliver water, water insecurity among local communities and alignment with the Quilpué's City Development Plan. A few clarifications are requested:

The aim of the competition was to build three urban points inside local schools/centers, and to include in each of them an interactive mechanism/display that can be used to educate potential users on sustainable water management techniques.

CR1: Kindly ensure there is an explanation provided that clearly illustrates the suitability of the winning Water Point design, along with its detailed construction plan, for the new context.

Following a thorough review and evaluation, the pilot Water Point design is suitable for the new context as pursuant to the proposed project implementation. Although the City of Quilpué is located in another

province, the concept, description and material conditions of the pilot design responds to the same problems found in both territories and generally observed throughout the Valparaíso Region, as related to water scarcity and the lack of technological solutions that provide new sources of water, such as rainwater.

The construction plan, in accordance with the original administrative and technical directives, will be carried out expeditiously in order to fulfill the project implementation timeframe.

CR2: Please confirm whether the three target locations for building water points have been identified in Quilpué?

The three locations where the water points will be built have been identified, corresponding to three schools belonging to the Education Area of the Municipal Corporation of Quilpué.

CAR1: Please provide a description of the outcomes resulting from environmental and social screening measures, as well as stakeholder consultations, conducted for the new province.

Regarding the selection of the new province, stakeholder consultations were held among education personnel (administrators, teachers and social workers), school communities (student's families), environmental civil society organizations and

neighborhood associations in the target locations. Additionally, the project not only will have a localized impact in the target areas but also in the surrounding urban sectors by means of an awareness campaign coordinated between municipal departments and civil society organizations for community outreach at the city level.

CR3: We kindly request an explanation and justification note regarding the competency of the new Executing Entity to effectively carry out the proposed activities.

The Municipality of Quilpué maintains an institutional organization that is suitable to the terms required as Executing Entity for the implementation of the Project, with interdisciplinary teams of professionals composing the Municipal Planning Secretariat, the Directorate of Operations and the Directorate of Environmental and Sustainability. The latter includes the Department of Climate Change and Sustainable Development, whose functions center on the implementation of actions to promote sustainable development along with mitigation and adaptation to climate change, with an emphasis on water security, risk reduction and increased resilience at the community level. Furthermore, the Municipal Corporation of Quilpué maintains the Infrastructure and Projects Department, whose tasks include the implementation of infrastructure modifications, execution of new works and project implementation in schools.

CR4: Please elaborate on the measures planned to ensure that the new target localities are committed to

		<p>maintaining the pilots and ensuring equitable access for the benefiting community.</p> <p>The new target localities, corresponding to municipal schools, have presented the necessary commitments in order to maintain the projected pilots and ensure equitable access following the stakeholder consultations conducted. As the municipal schools hold a social and collective function, equitable access to the pilots is safeguarded by standard operating procedures. Additionally, specific measures concerning the proper maintenance per technical requirements and equitable use in emergency situations will be adopted in compliance with local emergency planning in each of the selected schools under the overall supervision of the Projects Department of the Municipal Corporation of Quilpué.</p>
	<p>3. Does the project encourage or accelerate development of innovative adaptation practices, tools and technologies?</p>	<p>Yes.</p> <p>The rationale of the originally approved project remains the same and is justified as an innovation project.</p>
	<p>4. Does the project help generate evidence base of effective, efficient adaptation practices, products or technologies, as a basis for potential scaling up?</p>	<p>CR5: Kindly provide clarification on the scale-up plan/strategy for implementing the intervention.</p> <p>The scale-up strategy for implementing the intervention encompasses a three-pronged approach: 1) Coordination with regional and national municipal associations to promote local-government appropriation; 2) Liaison with municipal schools in the Valparaíso Region regarding adaption practices of the technology; and 3) Dissemination in concert with public and private universities to expand intervention throughout the county</p>

5. Does the project engage, empower and/or benefit the most vulnerable communities and social groups?

CR6: Please provide clarification on the community-led management measures established to ensure equitable access to water. Additionally, explain how the project will mitigate the tragedy of the commons phenomenon related to the shared resource.

In coordination with parent school associations, environmental civil society organizations and neighborhood associations, municipal schools will ensure community-driven initiatives by means of periodic open assemblies in order to promote accountability and judicious follow-up on equitable water access management measures.

The tragedy of the commons phenomenon will be mitigated through permanent outreach and community-based dissemination activities. Furthermore, it is important to note that one of the selected schools is located in the area affected by the mega wildfire that occurred in February 2024, leaving in the City of Quilpué with regrettable fatalities and thousands of people affected total, consisting in the loss of homes, belongings and vital elements of subsistence, as well as serious damage to natural reserves, infrastructure and residential areas. According to the latest municipal registry, a total of 5,804 people have been affected by the wildfires, with at least 432 students enrolled in municipal schools among those affected.

The affected population, in addition to the material damage suffered, had their energy and drinking water supplies cut off during the emergence; if the water supply system included the installation of the water points pursuant to this project, the situation would have been markedly different as it would have been

		<p>possible to supply water to a significant part of the affected community. Therefore, and as the second deadliest fire of the XXI century, promotion of equitable access to water as a public resource is of vital importance to strengthen capacities and prevent undue constraints in emergency situations</p>
	<p>6. Does the project advance gender equality and the empowerment of women and girls?</p>	<p>CR7: Kindly clarify the project's gender responsiveness throughout the competition process, such as initiatives to foster women as entrepreneurs, the criteria used in selecting the winning model (in order to ensure, importantly, that the winning models will adequately serve women and girls), and the intended gender-responsive approaches during the implementation of the pilots.</p> <p>Gender-responsive approaches during pilot implementation are a cornerstone of the project. As such, the project seeks to position the water point installations as empowerment spaces that will foster new associative structures among girls enrolled in municipal school sites. Of the total number of students enrolled among the three target locations, 45% are girls and women, underscoring the importance that equitable access to water is fostered through a gender lens. Additionally, linkages between women in surrounding neighborhoods around an agenda of social co-responsibility directly linked to the collective and equitable access of water.</p> <p>The winning model responds to gender parity considerations and scale-up interventions will take account of local and regional women entrepreneur</p>

		associations to foster the economic empowerment and autonomy of women.
Resource Availability	1. Is the requested project funding within the parameters for small grants set by the Board?	Yes.
	2. Is the Implementing Entity Management Fee at or below 8.5 per cent of the total project budget before the fee?	Yes, the management fee is at 3.1% the total budget before fee for single projects
Implementation Arrangements	1. Is the project submitted through a National Implementing Entity accredited by the Board?	Yes.
	2. Is the timeframe for the proposed activities adequate?	<p>An extension request has been submitted to extend the project from 9 March 2024 to 9 September 2024</p> <p>CR8: Kindly provide clarification on the reasonableness of the proposed extension duration, ensuring it allows adequate time for construction, piloting, training/ capacity building, demonstration, and learning capture activities.</p> <p>The proposed extension duration responds to the time frame needs of the construction plan and community-centred dissemination actions in order to ensure due fulfilment of project commitments.</p> <p>An extension request has been submitted to extend the project to October 16 2024 and Effectiveness will be pending on the AF Board Meeting Approval.</p>
	3. Is a summary breakdown of the budget for the proposed activities included?	CAR2: The project execution costs amount to 48,008 USD (21.5%) which exceeds 9.5% of the total budget

		<p>requested before the implementing entity fees. Please revise.</p> <p>AGCID informs the Adaptation Fund that, in order to continue with the project, it implemented a budget modification in the Execution Costs item, reported on July 7, 2021, and ratified on September 20, 2021, increasing the original budget established in the inter-institutional agreement by 7.83%. Likewise, it should be noted that this variation in relation to the total budget is less than the 10% established in the agreement, for when modifications must be approved by the Fund. This information was duly recorded in the PPRs 1 and 2.</p>