



Additional Financing

Project Number: 46495-003
Grant Number: XXXX-PNG
August 2018

Proposed Administration of Grant Papua New Guinea: Building Resilience to Climate Change in Papua New Guinea

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Asian Development Bank

CURRENCY EQUIVALENTS

(as of 21 August 2018)

Currency unit	–	kina (K)
K1.00	=	\$0.30
\$1.00	=	K3.31

ABBREVIATIONS

ADB	–	Asian Development Bank
CCDA	–	Climate Change and Development Authority
DFAT	–	Department of Foreign Affairs and Trade
MBPG	–	Milne Bay Provincial Government
PAM	–	project administration manual
PIU	–	project implementation unit
PNG	–	Papua New Guinea
PPCR	–	Pilot Program for Climate Resilience
SCF	–	Strategic Climate Fund

NOTE

In this report, "\$" refers to US dollars.

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CONTENTS

	Page
PROJECT AT A GLANCE	
I. BACKGROUND	1
II. ADDITIONAL FINANCING	1
A. Rationale	1
B. Impacts, Outcome, and Outputs	2
C. Revised Investment and Financing Plans	2
D. Due Diligence	3
E. Implementation Arrangements	4
III. THE PRESIDENT'S DECISION	4
APPENDICES	
Revised Design and Monitoring Framework	5
SUPPLEMENTARY APPENDICES (available on request)	
A. Grant Agreement – Strategic Climate Fund	
B. Grant Agreement – Government of Australia's Department of Foreign Affairs and Trade	
C. Project Agreement	
D. Project Administration Manual	
E. Economic and Financial Analysis	
F. Summary Poverty Reduction and Social Strategy	
G. Initial Environmental Examination	
H. Project Administration Manual of G0447-PNG: Building Resilience to Climate Change in Papua New Guinea	
I. Social Safeguards Due Diligence Report	
J. Climate Risk and Vulnerability Assessment	
K. Financial Management Assessment	
L. Pilot Program for Climate Resilience – Annex 10: Climate Proofing and Connectivity Improvement of the Alotau Provincial Wharf	

PROJECT AT A GLANCE

1. Basic Data		Project Number: 46495-003	
Project Name	Building Resilience to Climate Change in Papua New Guinea (additional financing)	Department /Division	PARD/PATE
Country Borrower	Papua New Guinea Government of Papua New Guinea	Executing Agency	Office of Climate Change and Development
2. Sector	Subsector(s)	ADB Financing (\$ million)	
		Total	0.00
3. Strategic Agenda		Climate Change Information	
Inclusive economic growth (IEG)	Pillar 2: Access to economic opportunities, including jobs, made more inclusive	Climate Change impact on the Project	High
Environmentally sustainable growth (ESG)	Global and regional transboundary environmental concerns	Cofinancing Adaptation (\$ million)	1.52
4. Drivers of Change		Gender Equity and Mainstreaming	
Governance and capacity development (GCD)	Institutional development	Some gender elements (SGE)	✓
Knowledge solutions (KNS)	Pilot-testing innovation and learning		
Partnerships (PAR)	International finance institutions (IFI) Official cofinancing		
5. Poverty and SDG Targeting		Location Impact	
Geographic Targeting	Yes	Not Applicable	
Household Targeting	No		
SDG Targeting	Yes		
SDG Goals	SDG8, SDG9		
6. Risk Categorization:	Low		
7. Safeguard Categorization	Environment: B Involuntary Resettlement: C Indigenous Peoples: C		
8. Financing			
Modality and Sources		Amount (\$ million)	
ADB		0.00	
None		0.00	
Cofinancing		7.98	
Government of Australia - Project grant (Full ADB Administration)		2.98	
Strategic Climate Fund - PPCR - Project grant (Full ADB Administration)		5.00	
Counterpart		0.64	
Government		0.64	
Total		8.62	

I. BACKGROUND

1. The Asian Development Bank (ADB) approved the grant for Building Resilience to Climate Change in Papua New Guinea for \$24.25 million on 21 October 2015 and became effective on 1 March 2016. This grant provided by the Strategic Climate Fund–Pilot Program for Climate Resilience (SCF–PPCR) was administered by ADB.¹ The project comprises (i) climate change and vulnerability assessments carried out and adaptation plans developed for target communities; (ii) sustainable fishery ecosystems and food security investments piloted in nine vulnerable island and atoll communities; and (iii) enabling framework for climate-resilient infrastructure established and communications network extended. The executing agency of the project is the Climate Change and Development Authority (CCDA).

2. The report and recommendation of the President for the project stated that, subject to additional funding from the PPCR, a change in scope to Output 3 (enabling framework for climate resilient infrastructure established and communications network extended) would be made to include the upgrading and climate proofing of the provincial wharf in Alotau in Milne Bay Province. The climate proofing of the wharf will serve as a pilot and demonstration climate adaptation model for climate proofing similar structures in Papua New Guinea (PNG), thereby strengthening the outcome of the overall project on improved capacities of communities, government agencies, and civil society to plan and respond to the impacts of climate change.

3. In 28 September 2017, the SCF–PPCR Sub-Committee approved the allocation of an additional \$5 million in PPCR grant resources as additional financing to original project for the climate proofing of the wharf in Alotau. On 9 February 2018, the cofinancing agreement between the Government of Australia and ADB with respect to the additional financing to original project for the climate proofing of the wharf in Alotau, for an amount of A\$4 million was signed.

II. ADDITIONAL FINANCING

A. Rationale

4. The proposed additional financing will expand the scope of and increase project benefits. The existing design-life expired wharf will be rebuilt with innovative climate adaptation features. Climate resilient building codes and design standards will be developed based on the pilot climate proofing of the wharf in Alotau. There is high demonstration potential in replicating the climate proofing design at the wharf to other vulnerable coastal maritime infrastructure in PNG. The proposed additional financing project contributes to sustained access of outer island communities to basic needs post-disaster and extreme climate events. During normal operations, the wharf contributes to increased economic activities to support the livelihood and social needs of the communities, particularly women and children. Additional financing is considered appropriate because the additional component will augment the outputs and outcome of the original project by delivering additional and immediately tangible benefits to Milne Bay Province. The overall project remains technically feasible and is accorded high priority by the government; and is consistent with the project's development objectives and the current ADB's country partnership strategy for PNG, 2016–2020.²

¹ ADB. 2015. *Report and Recommendation of the President to the Board of Directors: Proposed Administration of Grant to Papua New Guinea for Building Resilience to Climate Change in Papua New Guinea Project*. Manila (G0447-PNG).

² ADB. 2015. *Country Partnership Strategy: Papua New Guinea, 2016–2020*. Manila.

5. The performance of the ongoing project is rated 'On Track' as of third quarter (Q3) of 2018. Start-up activities under the project are completed with a project implementation unit (PIU) under CCDA established and two major consultancy contracts awarded. As of August 2018, the cumulative contract award is \$6,731,000 and the cumulative disbursements is \$1,344,000.

B. Impacts, Outcome, and Outputs

6. The project's impact will be increased resilience to the impacts of climate variability and climate change. The outcome will be improved capacities of communities (in vulnerable atolls and islands), government agencies, and civil society to plan and respond to the impacts of climate change. While the impact and outcome are unchanged, they will be enhanced through implementation of innovative methods of climate proofing the existing wharf in Alotau, which would have replication potential in other similar coastal structures in PNG. The creation of such new design codes and standards for Alotau contribute directly to Output 3 of the original project.

C. Revised Investment and Financing Plans

7. The total cost of the project, including the additional financing, is estimated to be \$35.91 million (Table 1). The SCF will provide additional grant cofinancing equivalent to \$5 million, to be administered by ADB as a means to leverage ADB's leadership in supporting the implementation of climate change adaptation projects in PNG.³ Additional financing of A\$4,000,000 (\$2,975,001 equivalent) will also be provided by DFAT, administered by ADB. The civil works package for construction of Alotau Wharf will be implemented with joint financing between SCF and DFAT on a cost-sharing basis. The government would provide counterpart financing of K2 million (approximately \$640,000), which will finance any physical contingencies arising from detailed design. The revised investment and financing plans are in Tables 1 and 2.

Table 1: Revised Investment Plan
(\$ million)

Item	Current Amount ^a	Additional Financing ^b	Total
A. Base Cost			
1. Climate change vulnerability assessment and adaptation plans	10.15	0.00	10.15
2. Sustainable fishery ecosystems and food security	7.52	0.00	7.52
3. Climate-resilient coastal infrastructure and early warning communications	7.18	0.00	7.18
3a. Climate-proofing Alotau Provincial Wharf ^c		7.40	7.40
Subtotal (A)	24.85	7.40	32.25
B. Contingencies^d	2.44	1.22	3.66
Total (A+B+C)	27.29	8.62	35.91

^a Refers to the original amount and any previous additional financing.

^b Includes taxes and duties of \$770,303 to be financed by Strategic Climate Fund and Government of Australia through the Department of Foreign Affairs and Trade. Such amount does not represent an excessive share of the project cost.

^c In 2017 prices.

^d Physical contingencies computed at 14% for civil works and consulting services. Price contingencies computed at 10% taking into account inflation in foreign exchange costs and local currency costs, and potential exchange rate fluctuation under the assumption of purchasing power parity.

Source: Asian Development Bank estimates.

³ Provided under the Pilot Program for Climate Resilience.

Table 2: Revised Financing Plan
(\$ million)

Source	Current ^a		Additional Financing		Total	
	Amount (\$ million)	Share of Total (%)	Amount (\$ million)	Share of Total (%)	Amount (\$ million)	Share of Total (%)
Strategic Climate Fund (grant) ^b	24.25	88.90	5.00	58.00	29.25	81.40
Government of Australia ^c	-	-	2.98	34.60	2.98	8.30
Beneficiaries	1.00	3.60	0.00	0.00	1.00	2.70
Government	2.04	7.50	0.64	7.40	2.68	7.60
Total	27.29	100.00	8.62	100.00	35.91	100.00

Note: Numbers may not sum precisely because of rounding.

^a Refers to the original amount and any previous additional financing.

^b Under the Pilot Program for Climate Resilience, administered by the Asian Development Bank.

^c This amount also includes ADB's administration fee, audit costs and bank charges, to the extent that these items are not covered by the interest and investment income earned on this grant, or any additional grant from the Government of Australia.

Source: Asian Development Bank estimates.

D. Due Diligence

8. The feasibility studies have demonstrated that the additional financing component is technically viable. The design includes full climate resilience for 50 years, with full climate proofing for 25 years and a simple means of extending climate proofing for another 25 years. The economic rate of return for the additional financing component and the overall project including the original project are 9.7% and 12.1% respectively. The financial sustainability assessment indicates that income is forecast to exceed the operating costs for the first seven years. During project implementation, the financial management team (engaged under the original project) and the consultant for project management, supervision support and capacity building (engaged under the additional financing project) will support the PIU in reviewing the tariff structure. If required, the tariff structure will be revised to ensure continued financial sustainability of the wharf

9. The financial management risk of Milne Bay Provincial Government (MBPG), which operates the wharf, was assessed as high. A financial management action plan has been developed in the project administration manual (PAM). The financial management experts engaged under the original project will provide on-the-job training to the project accountant to ensure necessary internal controls and financial management systems are in place to account for project expenditures in accordance with ADB's requirements. MBPG is committed to provide a full-time project accountant to manage the project. MBPG is currently seeking provincial legislative approval to increase the tariffs once the climate proofed wharf is completed. This will ensure that the operating and maintenance expenditures can be covered sustainably. The first financial statement for the original project has been submitted to the Auditor General's Office. Governance and integrity risks was assessed in 2015 in the original project. The mitigating measures are still relevant and are being implemented. ADB's Anticorruption Policy (1998, as amended to date) was explained to and discussed with the government and the Ministry of Finance. The specific policy requirements and supplementary measures are described in the PAM.

10. Following the Safeguard Policy Statement 2009 (SPS 2009), the additional financing project is categorized B for environment and C for both the involuntary resettlement and indigenous peoples. An initial environmental examination has been prepared for the additional financing project and appropriate institutional arrangements to ensure compliance with ADB's environmental safeguard requirements and government's environmental safeguards requirements are included in the PAM. No resettlement and indigenous peoples' impacts are

anticipated. The climate proofed wharf will be within the declared ports boundaries and within the state underwater lease owned by MBPG and PNG. The due diligence confirmed there are no existing legacy land issues requiring corrective actions. No assets or business establishments will be affected on site. The climate proofed wharf is not expected to have any adverse impact on, or target any, distinct or vulnerable ethnic or tribal group cultural sacred sites, endangered marine ecosystems and migrating fish species.

11. The project is categorized as having some gender elements. A gender action plan is not required, but key gender features where feasible have been considered such as making provisions for access ramps, deck lighting, safety ladders and railings to provide a safer and more convenient facility to women and other vulnerable groups. Women's participation in consultation meetings, and trainings and awareness on HIV/AIDS and safety measures will also be ensured during the wharf construction and operation.

12. The procurement risk is assessed as high, due to lack of experience in procuring and supervising projects of this scale and complexity, and lack of prior experience in implementing donor funded projects. Risk mitigation measures have been identified and described in the PAM. Procurement support to the PIU in development of bid documents and tendering process will be provided from the original project.

E. Implementation Arrangements

13. CCDA, the executing agency for the original project, will act as the executing agency for the proposed additional financing project. MBPG will be the implementing agency for the additional financing project. A PIU is being established within MBPG. PNG Ports Corporation Limited is providing technical advisory support to the MBPG in reviewing detailed engineering design, procurement, and construction of the new wharf. An international expert will be engaged under the project to provide project management, supervision and capacity building (PMSC) to the PIU. The contract for undertaking the detailed design was awarded in July 2018; this will be funded from the original project.

14. The survey components will be procured using shopping method. The civil works package to demolish and construct a new wharf is anticipated and will be procured using open competitive bidding. The PMSC consultant will be recruited using individual consultant selection. Procurement and recruitment of consultants will be undertaken in accordance with ADB Procurement Policy (2017, as amended from time to time) and Procurement Regulations for ADB Borrowers (2017, as amended from time to time). The SCF and DFAT grants will be disbursed in accordance with ADB's Loan Disbursement Handbook (2017, as amended from time to time). The additional grant-financed project and the original project are both expected to be completed by October 2021. The grant closing date for both components are on 30 April 2022, which is the original grant closing date of the main project.

III. THE PRESIDENT'S DECISION

15. The President acting under the authority delegated by the Board, has approved (i) the administration by ADB of the grant not exceeding the equivalent of \$5,000,000 to be provided by the Strategic Climate Fund; and (ii) the administration by ADB of the grant not exceeding A\$4,000,000 (\$2,975,001 equivalent) to be provided by Government of Australia through the Department of Foreign Affairs and Trade, both to Government of Papua New Guinea for the additional financing of the Building Resilience to Climate Change in Papua New Guinea.

REVISED DESIGN AND MONITORING FRAMEWORK

Impact the Additional Financing Project is Aligned with			
<p>Current project The project impact is increased resilience to the impacts of climate variability and climate change.</p> <p>Overall project Unchanged.</p>			
Results Chain	Performance Indicators with Target and Baselines	Data Sources and Reporting	Risks
<p>Outcome</p> <p>Current project Improved capacities of communities (in vulnerable atolls and islands), government agencies, and civil society to plan and respond to the impacts of climate change.</p> <p>Overall project Unchanged.</p>	<p>Current project By 2021</p> <p>a. Gender responsive CCVAPs prepared under the project used in formulating LGL, district and provincial development plans for climate change adaptation.</p> <p>b. 50% reduction in the incidence of waterborne and water-related diseases in target communities.</p> <p>c. Fish populations increased by 20% in target LMMAs and food insecurity reduced by 20% from baseline figures.</p> <p>d. Pilot marine ecosystem and food security approaches developed under the project applied in locations outside.</p> <p>e. Early warning messages broadcast and emergency responses coordinated increased from 0 to 10 and 100 per year respectively in the coverage area by 2021.</p> <p>Overall project Unchanged.</p>	<p>a. KAP surveys of planning staff at respective levels compared to baseline.</p> <p>b. Gender-disaggregated DOH database reports.</p> <p>c. LMMA monitoring reports.</p> <p>d. FDA annual work plans and budget requests: DAL annual work plans and budget requests.</p> <p>e. NDC annual reports.</p>	<p>Resources under the SGF will not be applied to the intended purpose.</p> <p>Capacity building proposed in the design will not be extended to all intended beneficiaries/recipients.</p>

Results Chain	Performance Indicators with Target and Baselines	Data Sources and Reporting	Risks
<p>Outputs</p> <p>Output 1</p> <p>Current project</p> <p>Climate change and vulnerability assessments carried out and adaptation plans developed for target communities.</p> <p>Output 2</p> <p>Current project</p> <p>Sustainable fishery ecosystems and food security investments piloted in nine vulnerable island and atoll communities.</p>	<p>Current project</p> <p>By 2021</p> <p>1a. 21 vulnerable island communities with CCVAP, climate resilient development plans incorporated into LLG, district and provincial plans.</p> <p>1b. Gender responsive disaster response strategies developed in 21 vulnerable island communities.</p> <p>1c. Provincial (50) and NGOs (50) staff (30% being women) trained in adaptation to climate change.</p> <p>Current project</p> <p>2a. Nine LMMAs established, registered and operational with approved management plans being implemented.</p> <p>2b. Adaptation measures against climate change in home gardens demonstrated in nine target communities.</p> <p>2c. Nine mangrove forest rehabilitation demonstrated.</p> <p>2d. Three watershed rehabilitation demonstrated in communities adjoining target vulnerable islands.</p> <p>2e. Food processing and preservation initiatives piloted in nine island communities (50% women).</p>	<p>1a. Provincial development plans in provincial administrator's office.</p> <p>1b. NDC disaster reports.</p> <p>1c. PMR and training evaluation reports.</p> <p>2a–e. PMR reports.</p>	<p>Capacities of provincial staff prevent the program from being properly implemented.</p> <p>Sanitation facilities are not a priority for local communities.</p> <p>Motivation of provincial staff is low because resources are channeled through NGOs.</p> <p>Capacities of villagers to participate in marketing and food processing initiatives.</p>

Results Chain	Performance Indicators with Target and Baselines	Data Sources and Reporting	Risks
<p>Output 3</p> <p>Current project</p> <p>Enabling framework for climate resilient infrastructure established and communications network extended.</p>	<p>Current project</p> <p>By 2021</p> <p>3a. Upgraded engineering design standards for coastal structures used in port, wharf and jetty design.</p> <p>3b. Building codes and design standards upgraded to incorporate climate change considerations.</p> <p>3c. Climate risk management policy developed and adopted by PNGPCL.</p> <p>3d. PNGPCL, national and provincial staff (30% being women) trained in the incorporation of risks from climate change in coastal port/jetty operations.</p> <p>3e. By 2018, five VHF repeater stations established on existing towers and receiving substations established in 21 target islands.</p> <p>3f. By 2016, PMU established, staffed and equipped and monitoring systems developed.</p> <p>3g. By 2016, project activities and performance posted on project website.</p>	<p>3a. KAP surveys of design engineers (both government and private) c.f. baseline.</p> <p>3b. Confirmation by professional institution.</p> <p>3c. National policy statement prepared.</p> <p>3d. PMR and training evaluation reports.</p> <p>3e–f. PMR reports.</p> <p>3g. Website Inspection.</p>	<p>Tower owners will not allow the project to access the towers for installation of equipment.</p> <p>Counterpart funding will not be allocated to allow the PMU to operate efficiently.</p>
<p>Overall project</p> <p>Unchanged.</p>	<p>Overall project (Additional Financing)</p> <p>3h. Demonstration project for climate proofing Alotau Provincial Wharf with essential gender designs completed by December 2021.^a</p>	<p>3h. PMR reports.</p>	<p>Procurement and consulting services under the project will not be effectively managed due to insufficient experience in managing international agency funded projects and</p>

Results Chain	Performance Indicators with Target and Baselines	Data Sources and Reporting	Risks
			projects of the size of the Alotau Wharf.
Key Activities with Milestones			
<ol style="list-style-type: none"> 1. Climate change vulnerability assessments carried out and adaptation plans developed for target communities. <ol style="list-style-type: none"> 1.1 Prepare localized projections of climate change in 21 target islands by Q1 2017. 1.2 Undertake CCVAP mapping in 21 vulnerable islands by Q1 2017. 1.3 Develop CCVAP for endorsement of the community and integration into the district development plans by Q2 in 2017. 1.4 Establish SGF to finance investments identified during CCVAP by Q3 2017. 1.5 Supply and install 200 water supply and 100 sanitation facilities in target islands by Q4 2018. 1.6 Develop emergency response strategies and train inhabitants of target islands by Q4 2018. 2. Sustainable fishery ecosystems and food security investments piloted in nine vulnerable island and atoll communities. <ol style="list-style-type: none"> 2.1 Sustain the integrity of fishery ecosystems by piloting a ridge to reef approach in target communities by Q4 2019. 2.2 Pilot food security initiatives (production, processing and storage) in target locations by Q4 2019. 2.3 Provide NGO support to facilitate delivery of fisheries ecosystems and food security initiatives and build capacities of communities and provincial/district staff by Q2 2017. 3. Enabling framework for climate resilient infrastructure established and communications network extended. <ol style="list-style-type: none"> 3.1 Support policy dialogue for the design and maintenance of port infrastructure by end 2018. 3.2 Revise appropriate engineering standards to accommodate the impact of climate change in infrastructure design by end 2018. 3.3 Build capacities of national and provincial port and wharf design specialists to incorporate economic returns achieved from incorporating climate resilience in feasibility studies by end 2019. 3.4 Develop options for the sustainable financing of port rehabilitation and upgrading taking into account climate change by end 2018. 3.5 Expand communications network in five provinces through radio repeater stations and island receivers by Q4 2017. 3.6 Train CCDA staff in procurement, financial management, and implementation coordination, among others. 3.7 Maintain the project performance and management systems designed by the PISC throughout implementation. 3.8 (i) Engage detailed design and construction supervision consultants for Alotau wharf by early Q3 of 2018. Bidding documents for civil works package (for construction of Alotau Wharf) completed by early Q4 of 2018, and civil works package (for construction of Alotau Wharf) awarded by Q3 of 2019. (New) 3.8 (ii) Civil works for construction contract completed by Q1 of 2021 (New). 			
Project Management Activities			
Establish PMU, appoint incremental staff, second government employees to the PMU by end 2016.			

Key Activities with Milestones

Train CCDA staff in procurement, financial management, and implementation coordination, among others. Recruit implementation support consultants by Q4 2016.

Establish project performance and financial management systems for project and SGF by Q4 2016. Complete monthly, quarterly, and annual progress and financial reporting to the Government and ADB ongoing.

Participate in midterm review by end 2018 and project completion review by end 2021.

Establish dedicated PMU within MBPA by end of Q2 2017.

Inputs

Grant from Government of Australia	Grant from Strategic Climate Fund	Government of PNG
\$0.00 (current)	\$24.25 (current)	\$3.04 (current)
\$2.98 (additional)	\$5.00 (additional)	\$0.64 (additional)
\$2.98 (overall)	\$29.25 (overall)	\$3.34 (overall)

Assumptions for Partner Financing**Current project**

Not applicable.

Overall project

Unchanged.

CCDA = Climate Change and Development Authority; CCVAP = Climate Change Vulnerability Adaptation Plans; DAL = Department of Agriculture and Livestock; DOH = Department of Health; KAP = knowledge attitude and practice; LLG = local level government; LMMA = local marine management association; MBPA = Milne Bay Project Administration; NDC = National Disaster Center; NGO = nongovernment organization; PISC = Project Implementation Support Consultant; PMR = project monitoring reports, PMU = project management unit; PNG = Papua New Guinea; PNGPCL = Papua New Guinea Ports Corporation Ltd.; Q = quarter; SGF = Small Grants Facility; VHF = very high frequency.

^a The design includes deck lighting, safety ladders, safety railings, security gates, to provide a safer and more convenient facility to women and other vulnerable groups.

Source: Asian Development Bank.