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Report No: PAD5010

INTERNATIONAL DEVELOPMENT ASSOCIATION

PROJECT PAPER

ON A

PROPOSED ADDITIONAL GRANT
AND RESTRUCTURING

IN THE AMOUNT OF SDR 7.5 MILLION FROM CRISIS RESPONSE WINDOW
(US\$10 MILLION EQUIVALENT)

AND A TRUST FUND GRANT
IN THE AMOUNT OF US\$4.53 MILLION FROM THE PAPUA NEW GUINEA AND PACIFIC ISLANDS
UMBRELLA FACILITY

TO THE KINGDOM OF TONGA

FOR THE

TONGA SAFE AND RESILIENT SCHOOLS PROJECT

June 2, 2022

Urban, Resilience And Land Global Practice
East Asia And Pacific Region

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CURRENCY EQUIVALENTS

Exchange Rate Effective April 30, 2022

Currency Unit = Pa'anga (TOP)

TOP 2.3 = US\$ 1

US\$ 1.3443 = SDR 1

FISCAL YEAR

January 1 - December 31

Regional Vice President: Manuela V. Ferro

Country Director: Stephen N. Ndegwa

Regional Director: Benoit Bosquet

Practice Manager: Ming Zhang

Task Team Leaders: Simone Lillian Esler, Andrew James Hurley,
Janssen Nunes Teixeira

ABBREVIATIONS AND ACRONYMS

CERC	Contingent Emergency Response Component
CESMP	Construction Environmental and Social Management Plan
CRW	Crisis Response Window
CSU	Central Services Unit
DA	Designated Account
ESCAP	Environmental and Social Code of Practice
ESCP	Environmental and Social Commitment Plan
ESF	Environment and Social Framework
ESIA	Environment and Social Impact Assessment
ESMP	Environmental and Social Management Plan
FM	Financial Management
GDP	Gross Domestic Product
GoT	Government of Tonga
GRID	Green, Resilient, and Inclusive Development
IRR	Internal Rate of Return
MET	Ministry of Education and Training
MOF	Ministry of Finance
PDO	Project Development Objective
PMU	Project Management Unit
PPIUF	Papua New Guinea and Pacific Islands Umbrella Facility
PREP	Pacific Resilience Program
WASH	Water and Sanitation Hygiene

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BASIC INFORMATION – PARENT (Tonga Safe and Resilient Schools Project - P174434)

Country	Product Line	Team Leader(s)		
Tonga	IBRD/IDA	Simone Lillian Esler		
Project ID	Financing Instrument	Resp CC	Req CC	Practice Area (Lead)
P174434	Investment Project Financing	SEAU1 (9349)	EACNF (6680)	Urban, Resilience and Land

Implementing Agency: Ministry of Education and Training

Is this a regionally tagged project?	
No	

Bank/IFC Collaboration
No

Approval Date	Closing Date	Expected Guarantee Expiration Date	Environmental and Social Risk Classification
10-Dec-2021	30-Sep-2027		Moderate

Financing & Implementation Modalities

<input type="checkbox"/> Multiphase Programmatic Approach [MPA]	<input checked="" type="checkbox"/> Contingent Emergency Response Component (CERC)
<input type="checkbox"/> Series of Projects (SOP)	<input type="checkbox"/> Fragile State(s)
<input type="checkbox"/> Performance-Based Conditions (PBCs)	<input checked="" type="checkbox"/> Small State(s)
<input type="checkbox"/> Financial Intermediaries (FI)	<input type="checkbox"/> Fragile within a Non-fragile Country
<input type="checkbox"/> Project-Based Guarantee	<input type="checkbox"/> Conflict
<input type="checkbox"/> Deferred Drawdown	<input type="checkbox"/> Responding to Natural or Man-made disaster
<input type="checkbox"/> Alternate Procurement Arrangements (APA)	<input type="checkbox"/> Hands-on Expanded Implementation Support (HEIS)

Development Objective(s)



i) to enhance the safety and resilience of selected education facilities; and (ii) to improve the quality of data-driven education management, curricula and assessments in the selected educational programs.

Ratings (from Parent ISR)

	Latest ISR
	14-Mar-2022
Progress towards achievement of PDO	S
Overall Implementation Progress (IP)	S
Overall ESS Performance	S
Overall Risk	M
Financial Management	S
Project Management	S
Procurement	S
Monitoring and Evaluation	S

BASIC INFORMATION – ADDITIONAL FINANCING (Additional Financing to the Tonga Safe and Resilient Schools Project - P178849)

Project ID	Project Name	Additional Financing Type	Urgent Need or Capacity Constraints
P178849	Additional Financing to the Tonga Safe and Resilient Schools Project	Scale Up	No
Financing instrument	Product line	Approval Date	
Investment Project Financing	IBRD/IDA	24-Jun-2022	
Projected Date of Full Disbursement	Bank/IFC Collaboration		
30-Sep-2027	No		
Is this a regionally tagged project?			
No			



Financing & Implementation Modalities

<input type="checkbox"/> Series of Projects (SOP)	<input type="checkbox"/> Fragile State(s)
<input type="checkbox"/> Performance-Based Conditions (PBCs)	<input checked="" type="checkbox"/> Small State(s)
<input type="checkbox"/> Financial Intermediaries (FI)	<input type="checkbox"/> Fragile within a Non-fragile Country
<input type="checkbox"/> Project-Based Guarantee	<input type="checkbox"/> Conflict
<input type="checkbox"/> Deferred Drawdown	<input checked="" type="checkbox"/> Responding to Natural or Man-made disaster
<input type="checkbox"/> Alternate Procurement Arrangements (APA)	<input type="checkbox"/> Hands-on Expanded Implementation Support (HEIS)
<input type="checkbox"/> Contingent Emergency Response Component (CERC)	

Disbursement Summary (from Parent ISR)

Source of Funds	Net Commitments	Total Disbursed	Remaining Balance	Disbursed	
IBRD				<div></div>	%
IDA	15.00	1.33	13.21	<div></div>	9.1 %
Grants				<div></div>	%

PROJECT FINANCING DATA – ADDITIONAL FINANCING (Additional Financing to the Tonga Safe and Resilient Schools Project - P178849)

FINANCING DATA (US\$, Millions)

SUMMARY (Total Financing)

	Current Financing	Proposed Additional Financing	Total Proposed Financing
Total Project Cost	15.00	14.53	29.53
Total Financing	15.00	14.53	29.53
of which IBRD/IDA	15.00	10.00	25.00
Financing Gap	0.00	0.00	0.00

DETAILS - Additional Financing

**World Bank Group Financing**

International Development Association (IDA)	10.00
IDA Grant	10.00

Non-World Bank Group Financing

Trust Funds	4.53
Papua New Guinea and Pacific Islands Umbrella Facility MDTF	4.53

IDA Resources (in US\$, Millions)

	Credit Amount	Grant Amount	Guarantee Amount	Total Amount
Tonga	0.00	10.00	0.00	10.00
Crisis Response Window (CRW)	0.00	10.00	0.00	10.00
Total	0.00	10.00	0.00	10.00

COMPLIANCE**Policy**

Does the project depart from the CPF in content or in other significant respects?

[] Yes [☒] No

Does the project require any other Policy waiver(s)?

[] Yes [☒] No

**Environmental and Social Standards Relevance Given its Context at the Time of Appraisal**

E & S Standards	Relevance
Assessment and Management of Environmental and Social Risks and Impacts	Relevant
Stakeholder Engagement and Information Disclosure	Relevant
Labor and Working Conditions	Relevant
Resource Efficiency and Pollution Prevention and Management	Relevant
Community Health and Safety	Relevant
Land Acquisition, Restrictions on Land Use and Involuntary Resettlement	Relevant
Biodiversity Conservation and Sustainable Management of Living Natural Resources	Relevant
Indigenous Peoples/Sub-Saharan African Historically Underserved Traditional Local Communities	Not Currently Relevant
Cultural Heritage	Not Currently Relevant
Financial Intermediaries	Not Currently Relevant

NOTE: For further information regarding the World Bank's due diligence assessment of the Project's potential environmental and social risks and impacts, please refer to the Project's Appraisal Environmental and Social Review Summary (ESRS).

INSTITUTIONAL DATA**Practice Area (Lead)**

Urban, Resilience and Land

Contributing Practice Areas

Education

Climate Change and Disaster Screening

This operation has been screened for short and long-term climate change and disaster risks

**PROJECT TEAM****Bank Staff**

Name	Role	Specialization	Unit
Simone Lillian Esler	Team Leader (ADM Responsible)	Disaster Risk Management	SEAU1
Andrew James Hurley	Team Leader	Disaster Risk Management	SEAU1
Janssen Edelweiss Nunes Fernandes Teixeira	Team Leader	Education	HEAED
Cristiano Costa e Silva Nunes	Procurement Specialist (ADM Responsible)	Procurement	EEAR2
Ha Thuy Tran	Financial Management Specialist (ADM Responsible)	Financial Management	EEAG2
Bonnie Frances Cavanough	Environmental Specialist (ADM Responsible)	Environmental Safeguards	SEAE1
Georgina Elizabeth McArthur	Team Member	DRM	SEAU1
Michelle Marie Dooley	Social Specialist	Social Safeguards	SEAS1
Miguel Payawal Ferido	Team Member	ACS Support	EACNF
Minghe Zheng	Team Member	Disbursement	WFACS
Nicholas Gerard Williams	Procurement Team		EACNF
Zoe Kolovou	Team Member	Legal	LEGAS

Extended Team

Name	Title	Organization	Location
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I. BACKGROUND AND RATIONALE FOR ADDITIONAL FINANCING

1. This Project Paper seeks the approval of the Executive Directors to provide an Additional Financing (AF) on standard grant terms to the Tonga Safe and Resilient Schools Project (P178849, TSRSP, the Parent Project) in the amount of SDR 7.5 million (equivalent to US\$10 million) from the International Development Association (IDA) Crisis Response Window (CRW), and US\$4.53 million from the Papua New Guinea and Pacific Islands Umbrella Facility (PPIUF). The proposed Additional Financing (AF) will support the Government of Tonga (GoT) in responding to the impact of the Hunga-Tonga-Hunga-Ha'apai (HT-HH) volcanic eruption and tsunami of January 15, 2022, and scale up investments to build resilience to climate and disaster hazards of school infrastructure in Tonga.
2. **The project will also require a Level II restructuring** to: (i) revise the targets of the Results Framework indicators for Component 1 to measure the enhanced development impact of the AF; and (ii) revise the Financing Agreement to enable the relocation of schools and facilities impacted by the HT-HH disaster from high hazard exposure levels to safer locations with reduced exposure to hazards, as under the Parent Project, investment eligibility criteria stipulates there are no plans for relocating the facilities outside of the existing site boundaries. However, the GoT has requested that the AF supports financing for two schools that were significantly impacted by the HT-HH disaster, that will be relocated to areas of less risk, and likely incorporated into existing school sites. Therefore, this restructuring will modify the Financing Agreement and project description to allow for such relocations, with the applicable eligibility criteria to be documented in the Project Operations Manual. The eligibility criteria will include, among others, that for any schools which are relocated, their students must have adequate residential proximity to relocated or other suitable facilities, or there must be an adequate provision of transport to ensure affected pupils have reliable access to relocated or other suitable schools at all times.
3. **Background.** Tonga consists of 169 islands in the South Pacific with a total population of around 104,000. In recent years, Tonga has been hard-hit by several economic and natural shocks, which have eroded its fiscal buffers and capacity to respond to further shocks. Tropical Cyclone Gita struck Tonga on February 12, 2018 as a Category 4 Tropical Cyclone, and caused equivalent to around 38 percent of Tonga's gross domestic product (GDP). Tropical Cyclone Harold struck on April 9, 2020, resulting in significant damages and losses totaling at least 12 percent of GDP. More recently, the January 15, 2022 HT-HH volcanic eruption and subsequent ashfall and tsunami waves had a devastating impact on the country. The tsunami caused widespread damage to buildings, schools, roads, power and water supply networks, tourism infrastructure, and agricultural crops, livestock, and fisheries resulting in post-disaster recovery and reconstruction needs that significantly exceed the capacity of the GoT to respond.
4. The HT-HH disaster is estimated to have caused physical damages and economic losses of at least US\$182 million (36.4 percent of GDP). Post-disaster recovery and reconstruction needs significantly exceed the capacity of the GoT to respond, with the GoT's preliminary Recovery and Resilience Building Plan estimating that public sector needs are likely to be at least US\$165.7 million (33.1 percent of GDP) from FY22-FY25. The GoT has elected to draw on a range of financing streams to respond to the disaster, including the full drawdown of US\$8 million in Catastrophe Draw Down Option financing, and has requested US\$35 million from the CRW, to be delivered via Additional Financing for two ongoing



Investment Project Financing operations (including the TSRSP and the Pacific Resilience Project - PREP) and Supplemental Financing for a Development Policy Operation. Though there is a Contingent Emergency Response Component (CERC) in the Parent Project, the government elected not to trigger this instrument, due to the availability of other instruments which would not result in modification or reprioritization of the development objective and planned activities of the newly approved Parent Project. The GoT is also utilizing over US\$21 million in domestic resources, and has accessed over US\$24 million in support from other development partners. To help close the remaining unmet public financing gap, the GoT has requested a US\$10 million disbursement from the International Monetary Fund's Rapid Credit Facility, with further support from other development partners (particularly the Asian Development Bank, Australia, New Zealand, and the European Union) expected to cover around US\$44 million of the unmet financing needs in FY23-FY25.

5. **Parent Project Status.** The Parent Project, TSRSP, financed by an IDA Grant (D927-TO) of SDR10.60 million (US\$15 million equivalent) was approved on December 9, 2021, and was declared effective on March 8, 2022. The Project Development Objectives (PDOs) are to: (i) enhance the safety and resilience of selected education facilities; and (ii) improve the quality of data-driven education management, curricula and assessments in the selected educational programs. The TSRSP has four components: (i) Improving Safety and Resilience of Education Facilities; (ii) Establishment of an Education Management Information System ("EMIS") and improved quality of curricula and assessments; (iii) Contingent Emergency Response; and (iv) Project Management. The Ministry of Education and Training (MET) is responsible for the overall implementation of the project, and is the implementing agency for Components 1, 2 and 4. The Ministry of Finance (MoF) is the implementing agency responsible for Component 3.
6. Early implementation activities have been negatively impacted by the HT-HH eruptions and tsunami, and Tonga's first COVID 19 outbreak. Despite these challenges, the Project Management Unit (PMU) has completed the recruitments of the Project Manager, Project Engineer, Environmental and Social Officer, Procurement Officer and the Finance Officer. Key progress under Component 1 includes preparation of the Design and Supervision terms of reference, with bidding for this critical consultancy imminent. For Component 2, bidding documents for the procurement of the EMIS and Terms of reference for the curriculum and assessment consultants are well advanced. Dated legal Covenants that were due to be completed within one month of effectiveness are on track to be delivered with a brief delay, due to the impacts of the disaster event and government's associated diverted resources as they have responded to the immediate recovery needs. Though no results have been seen (nor were expected to be seen) thus far due to the early stage of implementation, it is envisaged that targets will be met as agreed. US\$1.33 million (9.1 percent) of the Parent Project funds have been disbursed. All Project ratings are currently Satisfactory.
7. **Rationale of Additional Financing.** The impact of HT-HH eruption and tsunami, as well as Tropical Cyclone Gita in 2018, have highlighted the vulnerability of school infrastructure in Tonga and the need to improve the resilience of the building stock in Tonga to avoid similar impacts to education facilities in the future. Twelve schools have been damaged or destroyed by the HT-HH disaster (particularly due to the tsunami). All these schools are located on Tongatapu and Ha'apai and their damages range from minor



to total destruction. The GoT has requested support to repair or rebuild up to 12 of these school facilities under the proposed AF.

8. **The proposed AF will support the scale up of Component 1 activities of the Parent Project to enhance its development impact** through: (i) the climate and disaster resilient recovery of school facilities impacted by the HT-HH eruption and tsunami; and (ii) resilient investments in the broader education infrastructure portfolio to reduce disaster and climate vulnerabilities from future hazards and more frequent adverse weather events.
9. **Higher Level Objectives to which the Project Contributes.** The proposed AF is aligned with the GoTs Strategic Development Framework (TSDFI) and associated policies and plans for more inclusive and sustainable: (i) infrastructure resilient to climate change and extreme events; and (ii) human development with gender equality. The proposed AF is also aligned with the World Bank Group's framework for supporting green, resilient, and inclusive development (GRID) in IDA and IBRD countries, and supports the three pillars of GRID: (i) Green Development, through sustainable infrastructure investments in education facilities; (ii) Resilient Development, through support for risk identification, reduction and residual management of risk, along with supporting vulnerable groups (children); and (iii) Inclusive Development, through the boosting of human capital through gender and accessibility sensitive investments in water, sanitation and hygiene (WASH). The proposed AF is consistent with the World Bank Group's Pacific Islands Regional Partnership Framework (FY17-FY23)¹ covering nine Pacific Island countries: Kiribati, the Republic of the Marshall Islands (RMI), Federated States of Micronesia (FSM), Republic of Nauru, Republic of Palau, Independent State of Samoa, Kingdom of Tonga, Tuvalu, and Vanuatu. It is in line with Focus Area 3 of the Regional Partnership Framework: *Protecting incomes and livelihoods*, through its contribution to the achievement of *Objective 3.1: Strengthened resilience to natural disasters and climate change*. The project also aims to ensure strong liaison with other development partners, thus avoiding duplication of ongoing efforts and collaborating where possible.

II. DESCRIPTION OF ADDITIONAL FINANCING

10. The AF will scale up Component 1: Improving Safety and Resilience of Education Facilities activities. This will require a corresponding scale up of Component 4: Project Management of the Parent Project. The PDO will be amended to reflect the objectives of the Contingent Emergency Response Component (CERC). No changes are required to the results chain or indicator descriptions. The targets of the Results Framework indicators for Component 1 will be revised upwards to measure the increased development impact as a result of the AF.
11. **Project Development Objective:** The PDO will be revised to include the CERC related objective as follows:

(i) to enhance the safety and resilience of selected education facilities; (ii) to improve the quality of data-driven education management, curricula and assessments in the selected educational programs; and (iii) in case of an Eligible Crisis or Emergency, respond promptly and effectively to it.

¹ "World Bank Group. 2017. *Regional Partnership Framework: For Kiribati, Republic of Nauru, Republic of The Marshall Islands, Federated States of Micronesia, Republic of Palau, Independent State of Samoa, Kingdom of Tonga, Tuvalu, and Vanuatu*, FY17-FY21. Report Number 100997-EAP.



12. **Component 1. Improving Safety and Resilience of Education Facilities.** The AF will support activities under both subcomponents of the Parent Project.

13. Under the AF, **Sub-Component 1.1: Resilient Infrastructure Investments** will finance:

- a. The carrying out of a program of civil works to repair, retrofit and or reconstruct Approved Education Facilities² damaged or destroyed by the January 15, 2022, tsunami; and (ii) for the operations of the Approved Education Facilities including through, inter alia, the purchase and distribution of teaching and learning materials, equipment and furniture.
- b. The carrying out of a program of civil works to: (i) construct new Approved Education Facilities; (ii) retrofit and strengthen existing Approved Education Facilities; and (iii) undertake minor repair and maintenance works.
- c. The carrying out, inter alia, of detailed building-level structural condition assessments, geotechnical and other site investigations, feasibility design studies, investment planning, detailed engineering designs (incorporating multi-hazard resilience measures as appropriate to site-specific exposures), construction supervision and quality assurance, and monitoring of the contractors' environmental and social management plans.

14. Under the AF, **Sub-component 1.2: Strengthening Education Infrastructure Planning and Maintenance** will finance a scale up of technical assistance and support to implement the Operation and Maintenance program and improved asset management practices in an increased number of schools.

15. **Under the AF, Component 4: Project Management** will finance the additional Project Management costs associated with the scale up of activities under Component 1.

16. **Results Framework.** Table 1 set summarizes the indicators which will be amended, to reflect the increased financing allocated to Component 1.

Table 1: Revisions to Project Indicators

Indicator	Indicator Type	Original Target	Revised Target	Rationale for Change
Targeted education facilities constructed or strengthened to improved performance levels to one or more natural hazards (including climate related impacts) (Number)	PDO	30	60	Additional financing allows for more schools to be reached.
Direct beneficiaries with increased safety from new and strengthened education facilities (Number, disaggregated by gender)	PDO	3,000	6,000	Additional financing allows for more beneficiaries to be reached.

² "Approved Education Facilities" means Education Facilities selected, prioritized, and approved for the purposes of Sub-component 1.1 of the Project either in accordance with the Project Operations Manual or as agreed with IDA, if such approval is requested prior to the adoption of the Project Operations Manual. As with the Parent Project, these facilities may include both government or non-government schools.



Detailed engineering designs incorporating relevant hazard resilience measures are developed (Number)	Intermediate	30	60	Additional financing allows for more schools to be reached, necessitating more designs to be developed.
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17. **Implementation Arrangements.** Since the approval of the parent project, the GoT has advised that the **Project Steering Committee (PSC)** will now be chaired by MET, rather than MOF. The arrangements for the PSC will be set out in the Project Operations Manual.
18. **Financing.** Section VII: Detailed Changes indicates the current and revised component costs as a result of the proposed AF which are further broken down below in Table 2. The AF will result in the increase in the costs of Component 1 and Component 4 from US\$9 million to US\$22.56 million and US\$1.5 million to US\$2.5 million respectively.

Table 2: Project Costs and Financing by Component

Component No.	TSRSP Original Financing (US\$M)	TSRSP Additional Finance (US\$M)			TSRSP Total (US\$M)
		CRW	PPIUF	AF Total	
1	9	9.0	4.53	13.53	22.53
1.1	8.8	8.7	4.53	13.23	22.03
1.2	0.2	0.3	-	0.3	0.5
2	4.5	-	-	-	4.5
3	0	-	-	-	0
4	1.5	1.0	0.0	1.0	2.5
Totals	15	10	4.53	14.53	29.53

19. **Closing Date.** The closing date will remain unchanged, on September 30, 2027
20. **Climate Change.** The Additional Financing will further reduce the vulnerability of school infrastructure from the impact of increased climate change-induced frequent adverse weather events (including changes in precipitation, increased flooding, more intense storm events and tropical cyclones). It will contribute to climate resilience and adaptation through the construction and retrofitting of more resilient education facilities. It will also provide support to GoT for climate and disaster resilient investment planning, improved maintenance, and management of education infrastructure to help better withstand future climate change exacerbated weather events. The scale up will also contribute to climate mitigation through the use, where feasible, of contextually appropriate renewable energy sources, passive cooling options, and energy efficiency for the construction and retrofitting of selected education facilities.
21. **Gender.** In line with the Parent Project design, the Additional Financing will respond to the specific gender needs of beneficiaries under Component 1 by targeting gaps in gender, inclusive of WASH facilities.
22. **Climate Co-Benefits.** The Parent Project has been screened for short-and-long term climate and disaster risks, and was assessed for its contribution to climate change adaptation and mitigation. The scale up of



Component 1 investments under the AF will further reduce disaster and climate vulnerabilities from more frequent adverse weather events and contribute to climate resilience through adaptation and mitigation. Additional climate co-benefits will therefore be generated under the AF.

23. **Citizen Engagement.** The activities, mechanisms for citizen engagement and beneficiary feedback indicators related to Citizen engagement under the Parent Project remain unchanged and will continue to apply under the AF.

III. KEY RISKS

24. **As shown in Section VII: Detailed Changes, the overall risk to achieving the PDO will remain Moderate and the ratings of each risk category in the Parent Project's Systematic Operations Risk Rating Tool table will remain unchanged.** Institutional capacity for implementation and sustainability, fiduciary, and "Other" risks (including COVID-19) continue to be rated Substantial due to ongoing international border closures in Tonga and across the Pacific Region. The added risk factors since approval of the parent project are the recent COVID-19 outbreak in Tonga, interruptions to global and regional supply chains and the evolving risk of further price escalation due to the war in Ukraine. Mitigation measures proposed include strengthening of the Project Management Unit, support from the Central Services Unit established under the Ministry of Finance, and utilization of local contractors for works contracts, where feasible. The remaining risk ratings are unchanged from the parent project. The details of the risks and the corresponding risk management measures described in the PAD of the Parent Project continue to apply.

IV. APPRAISAL SUMMARY

A. Economic and Financial Analysis

25. The development impact of the AF can broadly be classified according to the first dividend of the World Bank's Triple Dividend of Resilience Framework, namely avoided losses and saving lives. Additionally, it will support the improved operation, maintenance and investment planning for education facilities, thereby strengthening the sustainability of project investments.
26. The proposed AF will extend the total number of educational facilities meeting standards of safety and resilience to climatic disasters. As strengthened educational facilities last longer, and the number of beneficiaries rise, the monetized value of benefits is expected to significantly rise and outpace projected maintenance costs in the future.³ In addition, potential building damage is likely to be reduced in the future and the beneficiaries of these school facilities are also likely to bear lower threats to their health and life. Furthermore, more schools are expected to be safer and more resilient, implying lower disruption to schooling for a larger number of students.
27. The updated cost-benefit analysis for Component 1-related interventions forecasts a positive Net Present Value (NPV) of US\$7.46 million, with an associated Internal Rate of Return (IRR) and Benefit-to-Cost Ratio of 11.6 percent, and 1.5, respectively. A sensitivity analysis scenario with a 10-percent increase in the

³Estimates made on a 25 and 50-year time horizon with a 6 percent discount rate, suggest that expected benefits exceed costs of interventions (in present value).



Project's costs and a 10-percent decrease in the Project's forecasted benefits (i.e., pessimistic scenario) stemming from climatic risks (earthquake, flood, etc.) which could be higher than those estimated under the base scenario, and other unforeseen or unquantified negative externalities associated with the proposed AF Project. As shown in Table 3, the proposed AF Project is economically sound and justifiable under both the base and pessimistic case scenarios.

Table 3. Economic and Financial Analysis of Component 1 Investments (AF and Original budgets)

	Budget with AF		Original Budget	
	Total (Over 25 Years)			
	Base Case Scenario	Pessimistic Scenario	Base Case Scenario	Pessimistic Scenario
IRR (percent)	11.6	8.7	10.5	6.4
Discounted cost (present value of costs)	US\$ 14.82 million	US\$ 16.30 million	US\$ 5.45 million	US\$ 5.99 million
Present value of incremental benefits	US\$ 22.28 million	US\$ 20.05 million	US\$ 7.59 million	US\$ 6.19 million
Net Present Value	US\$ 7.46 million	US\$ 3.75 million	US\$ 2.14 million	US\$ 0.2 million
Benefit/cost ratio	1.5	1.23	1.39	1.03

Source: World Bank estimations based on HIES 2015, Disbursement estimates and vulnerability estimates

B. Technical

28. As per the Parent Project, the nine standard classroom and six cubicle WASH designs developed under PREP will generally be used for new construction supported under the AF to minimize risks associated with design, supervision, and construction of new buildings. These designs have been updated to: (i) consider the local climate; (ii) provide improved ventilation and natural lighting; (iii) provide flexible and improved learning environments; and (iv) enhanced seismic and cyclone resilient standards to reduce disaster and climate vulnerabilities from more frequent adverse weather events and contribute to climate resilience and adaptation. Sub-component 1.2 of the Parent Project will contribute to creating the enabling environment for safer and more resilient schools in Tonga by empowering MET and the school community to undertake maintenance work through enhanced systems, tools (guidelines/physical tools) and capacity building. The AF will enable more schools and community members to be reached by the maintenance pilot which will further strengthen the sustainability of the project investments.

C. Financial Management

29. A financial management (FM) assessment of the Parent Project had identified the principal FM risk to be the risk of errors and misuse of funds due to the extensive use of spreadsheets to record and report project transactions, as well as the limited FM experience of MET. To mitigate the FM risks, the PMU has engaged a finance officer and will update the FM instructions in the Project Operations Manual to provide step-by-step instructions for project FM functions. The MOF Central Services Unit (CSU) will provide close support and training to the Finance Officer, particularly during the early stages of the project. An accounting software package (approved by MoF) is expected to be used for all project reporting and reconciliations, and to reduce the use of spreadsheets. MET, PMU, CSU, and MoF will meet regularly to



identify opportunities to integrate the project FM arrangements in the existing GoT systems and processes, such for budgeting, contract management, asset management, and reporting. The current Designated Account (DA) already opened in Fiji dollars in HFC Bank under the original financing of the project will be converted from a 'segregated' DA into a 'pooled' one for receipts of IDA funds from both the original financing and AF only. Such change in classification of DA type has no impact on the project and is only for IDA's disbursement purposes. However, a revised Authorized Signatory Letter covering both original financing and AF will be required.

30. **Project Disbursement and Fund Flow arrangement.** There is no change in the Project Fund Flow and Disbursement arrangement for the proposed AF. Following MOF requirement, the AF funds will flow to a Project DA in local currency opened in National Reserve Bank of Tonga (NRBT) and then to Project Operating Accounts opened in local currency at commercial bank acceptable to the association. The Current DA which was already opened in TOP in NBRT for original grant will be converted from a 'segregated' DA into a 'pooled' one for receipts of IDA funds from both the original financing and AF, and the PPIUF⁴ trust fund from the AF only. Such change in the classification of DA type has no impact on the project and is only for IDA's disbursement purposes. The ceiling of the pooled DA will be determined and documented in the Disbursement Letter. The Project funds will be disbursed against eligible expenditures as set out in the legal agreements. The following four disbursement methods are all available for the proposed AF Project: (i) advance; (ii) reimbursement; (iii) direct payment; and (iv) special commitment. Supporting documents required for Bank disbursement under different disbursement methods will be documented in the Disbursement Letter issued by the World Bank, based on Statements of Expenditures, Lists of Payments, and records evidencing eligible expenditures. The disbursement deadline for the proposed AF will be four (04) months after the Project AF closing date. IDA funds for this additional financing will finance 100 percent of goods, works, non-consulting services and consulting services, Training and Workshops and Operating Costs for Components 1 and 4 of the Project, inclusive of tax. PPIUF Grant for this additional financing will finance 100 percent of goods, works, non-consulting services, and consulting services, Training and Workshops and Operating Costs for Component 1 of the Project, inclusive of tax. The Project is jointly financed by IDA Grant and the PPIUF grant, given the earlier closing date of the PPIUF grant, to the extent practical, priority needs to be given to disburse the proceeds from the PPIUF grant, funds from IDA Grant D9270-TO shall be exhausted first before funds from this IDA grant E065-TO utilized.

D. Procurement

31. As per the Parent Project, Procurement under the proposed AF will follow the procedures specified in the World Bank Procurement Regulations for IPF Borrowers (November 2020). MET's PMU will oversee all procurement implementation related to the AF. MET has prepared a Project Procurement Strategy for Development (PPSD) and the Procurement Plan (PP). The project's largest investments will be in the construction and retrofitting of school buildings. Tonga's construction industry has structural limitations, while foreign contractors are unlikely to be interested due to the high mobilization costs. To mitigate the associated risks, the PMU will take a proactive approach to promote business opportunities and ensure

⁴ The Project will be co-financed by a recipient executed grant from the Papua New Guinea and Pacific Islands Umbrella Facility (PPIUF) in the amount of US\$4.53 million (PPIUF Grant No. TF0B8671). The full amount of co-financing has been signed. The first tranche of US\$3.2 million has been received and reflected in the PPIUF Grant Agreement. The remaining tranche is scheduled to be received in August 2022 and will be reflected in the PPIUF Grant Agreement through issuing of an amendment.



that the civil works' program is commensurable with the local contractors' capacity. The PMU's capacity will be augmented by: (i) the employment of an Engineering Firm to design (including to prepare procurement documents) and supervise civil works activities; and (ii) MOF's CSU providing hands-on implementation support. The procurement plan contains 20 different procurement activities estimated at US\$11.3 million and procurement of civil works represent the largest procurement category, with two different activities amounting to US\$6.6 million. The scope of civil works activities is yet to be defined as the detailed assessment to be undertaken by an Engineering Firm will delineate the number of buildings per school site.

E. Legal Operational Policies

	Triggered?
Projects on International Waterways OP 7.50	No
Projects in Disputed Areas OP 7.60	No

F. Environmental and Social

32. The environmental and social risks for both the Parent Project and the Additional Financing are assessed to be moderate. Environmental and social risk management will be the responsibility of the PMU, supported by the CSU E&S Team. Risks and impacts are not likely to be significant, large or complex and are expected to be predictable and temporary. Risks are expected to be site specific with low probability of serious adverse effects to human health or the environment and easily mitigated in a predictable manner.
33. The project investments will include capacity building and TA activities as well as physical works. Small-scale civil works will be undertaken including renovation and construction of classrooms, WASH facilities, teachers' housing, and other facilities (such as halls, dormitories, laboratories, libraries, administration) and the construction of ramps and pathways to improve the accessibility of school. An Environmental and Social Management Plan (ESMP) was prepared to assess environmental and social risks for these works. The ESMP was disclosed on the World Bank's website on March 31, 2022. The CSU Safeguards Team will work with the PMU Project Manager and PMU Environmental and Social officer to ensure that project activities are screened and scoped according to the requirements of the ESMP and Environmental and Social Commitment Plan (ESCP), which was updated for the AF and re-disclosed in country and on the World Bank's website on May 4, 2022.
34. Key risks include:
- i. Occupational health and safety risks;
 - ii. Soil and water risk due to improper management of erosion and sediment controls;
 - iii. Risk associated with the management of hazardous materials;
 - iv. Resource efficiency risks associated with sourcing of materials;
 - v. Risk to air quality via construction dust;
 - vi. Noise impacts; and
 - vii. Construction waste management



35. The negative environmental impacts directly associated with construction activities will be minor and can be readily mitigated via the implementation of mitigation measures outlined in the ESMP. Once specific sites for works have been selected a site assessment checklist will be completed to assess site specific impacts for the works. This site assessment checklist will also determine the need for contractors to prepare a site-specific construction environmental and social management plan (CESMP) or environmental and social code of practice (ESCOP) based on the works to be completed at each site and the environmental and social risks identified. The CESMP or ESCOP will be prepared by the contractor and will consolidate mitigation measures for the sites based on the specific works and construction methodology. Operational risks associated with the school facilities include management of operational waste and potential fire safety risk.
36. Downstream environmental impacts of Technical Assistance activities have also been considered and the environmental risk for these activities is considered to be low. The school community-based operation and maintenance capacity building program will require management of occupational and community health and safety risk, waste management and hazardous materials management. These risks are expected to be readily mitigated through the implementation of an ESCOP for the program which will be developed in accordance with Environmental Health and Safety guidelines and good international industry practice (GIIP).
37. The overall social impact of the project is expected be positive with improved access to education, improved education systems and teaching standards, more resilient public sector buildings with potential emergency/ evacuation centers and gender informed WASH facilities included in the outcomes.
38. The key social risks and impacts associated with the project are expected to include:
- i. Community health and safety due to interactions with construction workers and construction equipment;
 - ii. Exposure of workers and building occupants (including school aged children) to potentially hazardous materials (such as disturbed asbestos) and dangerous activities (such as machinery) before and during demolition and or construction/rehabilitation activities;
 - iii. Child safety and impact to the school community due to the proximity of workers to school children and school staff;
 - iv. Impacts of construction impacts such as noise, dust or vibration impacts to the school community and students due to the proximity of the buildings to construction works are to take place;
 - v. Minor impacts to community or livelihoods due to restricted or temporarily reduced access to sites and regular travel routes;
 - vi. Risks to vulnerable groups (poor, disabled, elderly, isolated or ethnic groups) and gender-based violence as a result of construction activities and the movement of people;
 - vii. Gender Based Violence (GBV), Sexual Exploitation and Abuse and Sexual Harassment risks during construction;
 - viii. The risk of COVID-19 to workers and the school community if community transmission becomes apparent;
 - ix. Potential impacts to land, or access to land, during construction and operation of works as a result of set down areas; and



- x. Failure to provide adequate information and involvement in decision-making about the impacts of the activities on students and families.
39. These impacts are considered temporary and minor and will be subject to standard accepted mitigation measures to be implemented by the contractor. No major disruption to education services is expected, with a staged construction program considering exam periods and students having only minor in-situ relocation if at all.
40. The project's management of social risks will be guided by the ESMP, which provides a high level environmental and social impact assessment for the types of activities to be completed by the project, provides mitigation measures relevant to these risks and includes a site specific environmental and social site assessment template which must be completed during the design for each site. This approach was also used on the PREP Tonga project and will allow for continuity in the risk management process between projects and provide the opportunity to build on existing mechanisms and implement lessons learned.
41. Labor Management Procedures for PMU and contracted workers have been prepared to ensure proper working conditions and management of worker relationships, Occupational Health and Safety management, and to prevent sexual exploitation and abuse and sexual harassment. A Project COVID Safety Protocol would also be developed during project preparation to address COVID-19 Safety risk.
42. In addition, a project's Stakeholder Engagement Plan has been prepared to ensure widespread engagement with communities and its more vulnerable groups including the elderly, people with underlying medical conditions, people with disabilities, and indigenous peoples, among others) - to disseminate information related to the project. The SEP was disclosed on the World Bank's website on May 4, 2022.

V. WORLD BANK GRIEVANCE REDRESS

43. Communities and individuals who believe that they are adversely affected by a World Bank supported project may submit complaints to existing project-level grievance redress mechanisms or the World Bank's Grievance Redress Service. The Grievance Redress Service ensures that complaints received are promptly reviewed in order to address project-related concerns. Project affected communities and individuals may submit their complaint to the World Bank's independent Inspection Panel which determines whether harm occurred, or could occur, as a result of World Bank non-compliance with its policies and procedures. Complaints may be submitted at any time after concerns have been brought directly to the World Bank's attention, and Bank Management has been given an opportunity to respond. For information on how to submit complaints to the World Bank's corporate Grievance Redress Service, please visit <http://www.worldbank.org/en/projects-operations/products-and-services/grievance-redress-service>. For information on how to submit complaints to the World Bank Inspection Panel, please visit www.inspectionpanel.org



VI SUMMARY TABLE OF CHANGES

	Changed	Not Changed
Project's Development Objectives	✓	
Results Framework	✓	
Components and Cost	✓	
Disbursements Arrangements	✓	
Legal Covenants	✓	
Implementing Agency		✓
Loan Closing Date(s)		✓
Cancellations Proposed		✓
Reallocation between Disbursement Categories		✓
Financial Management		✓
Procurement		✓
Implementation Schedule		✓
Other Change(s)		✓

VII DETAILED CHANGE(S)

PROJECT DEVELOPMENT OBJECTIVE

Current PDO

i) to enhance the safety and resilience of selected education facilities; and (ii) to improve the quality of data-driven education management, curricula and assessments in the selected educational programs.

Proposed New PDO

To: (i) enhance the safety and resilience of selected education facilities; (ii) improve the quality of data-driven education management, curricula and assessments in the selected educational programs; and (iii) in case of an Eligible Crisis or Emergency, respond promptly and effectively to it.



COMPONENTS

Current Component Name	Current Cost (US\$, millions)	Action	Proposed Component Name	Proposed Cost (US\$, millions)
Component 1: Improving Safety and Resilience of Education Facilities	9,000,000.00	Revised	Component 1: Improving Safety and Resilience of Education Facilities	22,530,000.00
Component 2: Establishment of EMIS and improved quality of curricula and assessments	4,500,000.00	No Change	Component 2: Establishment of EMIS and improved quality of curricula and assessments	4,500,000.00
Component 3: Contingent Emergency Response Component	0.00	No Change	Component 3: Contingent Emergency Response Component	0.00
Component 4: Project Management	1,500,000.00	Revised	Component 4: Project Management	2,500,000.00
TOTAL	15,000,000.00			29,530,000.00

DISBURSEMENT ARRANGEMENTS

Change in Disbursement Arrangements

Yes

Expected Disbursements (in US\$)

Fiscal Year	Annual	Cumulative
2022	128,840.00	128,840.00
2023	632,290.00	761,130.00
2024	4,845,140.00	5,606,270.00
2025	9,440,790.00	15,047,060.00
2026	9,514,760.00	24,561,820.00
2027	4,603,240.00	29,165,060.00
2028	364,940.00	29,530,000.00



SYSTEMATIC OPERATIONS RISK-RATING TOOL (SORT)

Risk Category	Latest ISR Rating	Current Rating
Political and Governance	● Moderate	● Moderate
Macroeconomic	● Moderate	● Moderate
Sector Strategies and Policies	● Moderate	● Moderate
Technical Design of Project or Program	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	● Substantial	● Substantial
Fiduciary	● Substantial	● Substantial
Environment and Social	● Moderate	● Moderate
Stakeholders	● Moderate	● Moderate
Other	● Substantial	● Substantial
Overall	● Moderate	● Moderate

LEGAL COVENANTS – Tonga Safe and Resilient Schools Project (P174434)

Loan/Credit/TF	Description	Status	Action
IDA-D9270	Without limitation to the foregoing, the Recipient shall no later than one (1) month after the Effective Date, and thereafter throughout the Project implementation period, maintain and make available staff from MET, each with skills, qualifications, and experience satisfactory to the Association, for the purposes of implementing Part 2 of the Project in accordance with the provisions of this Agreement and the Project Operations Manual.	Not yet due	No Change
IDA-D9270	The Recipient shall, no later than one (1) month after the Effective Date, establish and thereafter maintain, throughout the entire period of implementation of the Project, the Project Steering Committee with terms of reference, composition and resources satisfactory to the Association, which shall be responsible for providing strategic oversight and	Not yet due	Revised



	coordination for Project implementation in accordance with the provisions of this Agreement and the Project Operations Manual. To this end, the Project Steering Committee shall be chaired by the Minister for Finance, and shall be comprised of, inter alia, at least one (1) representative of each of the Ministry of Education and Training, the Ministry of Infrastructure, the Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Communications and Climate Change, the Ministry of Internal Affairs, and the Ministry of Lands and Natural Resources.		
Proposed	The Recipient shall, no later than one (1) month after the Effective Date, establish and thereafter maintain, the Project Steering Committee, with at least one (1) representative of each of the Ministry of Education and Training and the Ministry of Finance, and the remaining composition to be satisfactory to the Association.	Complied with	
IDA-D9270	The Recipient shall, no later than one (1) month after the Effective Date, establish and thereafter maintain, throughout the entire period of implementation of the Project, the Technical Working Group with terms of reference, composition and resources satisfactory to the Association, which shall be responsible for providing technical and strategic advice and guidance to the Project Management Unit established under Section 1.A.6 of Schedule 1 to this Agreement for Project implementation in accordance with the provisions of this Agreement and the Project Operations Manual. To this end, the Technical Working Group shall be chaired by one (1) representative of the Ministry of Education and Training, and shall be comprised of, inter alia, at least one (1) representative with technical expertise	Not yet due	Revised



	relevant to the implementation of the Project from each of the Ministry of Finance, the Ministry of Infrastructure, the Ministry of Meteorology, Energy, Information, Disaster Management, Environment, Communications and Climate Change, the Ministry of Lands and Natural Resources, and the Ministry of Internal Affairs.		
Proposed	The Recipient shall, no later than one (1) month after the Effective Date, establish and thereafter maintain, throughout the entire period of implementation of the Project, the Technical Working Group with terms of reference, composition and resources satisfactory to the Association, which shall be responsible for providing technical and strategic advice and guidance to the Project Management Unit	Complied with	
IDA-D9270	The Recipient shall, no later than one (1) month after the Effective Date, establish and thereafter maintain, throughout the entire period of implementation of the Project, a Project Management Unit ("PMU") within the Ministry of Education and Training, with terms of reference, composition and resources satisfactory to the Association, which shall be responsible for carrying out day-to-day management and implementation of the Project.	Complied with	No Change
IDA-D9270	The Recipient shall, no later than one (1) month after the Effective Date, recruit, and thereafter maintain, within the PMU, throughout the entire period of implementation of the Project, at least the following specialists: (i) a Project manager; (ii) a finance officer; (ii) a procurement officer; (iii) an environmental and social officer; and (iv) an engineer, each with terms of reference, qualifications and experience satisfactory to the Association. To this end, the PMU staff shall be responsible	Not yet due	Revised



	for, inter alia, carrying out fiduciary aspects of Project management and implementation, financial management, procurement, contract management, environmental and social risk management, monitoring and evaluation, and citizen engagement and communications activities, in accordance with the provisions of this Agreement and the Project Operations Manual.		
Proposed	The Recipient shall, no later than one (1) month after the Effective Date, recruit, and thereafter maintain, within the PMU, throughout the entire period of implementation of the Project, a Project manager with terms of reference, qualifications and experience satisfactory to the Association.	Complied with	
IDA-D9270	The Recipient shall prepare and adopt, by no later than one (1) month after the Effective Date, a manual, in form and substance acceptable to the Association, setting forth the arrangements and procedures for implementation of the Project.	Not yet due	No Change
IDA-D9270	The Recipient shall prepare and furnish to the Association, at least one (1) month before the date of the Mid-Term Review, a report, in scope and detail satisfactory to the Association and integrating the results of the monitoring and evaluation activities performed pursuant to Section II.2 of this Schedule 2 and the General Conditions, on the progress achieved in the carrying out of the Project during the period preceding the date of such report and setting out the measures recommended to ensure the efficient carrying out of the Project and the achievement of the objectives thereof.	Not yet due	No Change
IDA-D9270	The Recipient shall prepare and furnish to the Association, by not later than February 1 of each year during the	Complied with	Revised



	<p>implementation of the Project (or such later interval or date as the Association may agree), for the Association's review and no-objection, an Annual Work Plan and Budget, which shall, inter alia: (a) list all eligible Project activities and Eligible Expenditures proposed to be included in the Project in the Recipient's following fiscal year; (b) provide a budget for their financing (with a financial plan specifying all sources of financing including the Financing and any other resources provided by the Recipient); and (c) describe the environmental and social safeguards measures taken or planned to be taken in accordance with the provisions of Section I.D of this Schedule 2.</p>		
Proposed	<p>The Recipient shall prepare and furnish to the Association, by not later than February 1 of each year during the implementation of the Project (or such later interval or date as the Association may agree), for the Association's review and no-objection, an Annual Work Plan and Budget.</p>	Complied with	
IDA-D9270	<p>The Recipient shall furnish to the Association each Project Report not later than one (1) month after the end of each calendar semester, covering the calendar semester. Except as may otherwise be explicitly required or permitted under this Agreement or as may be explicitly requested by the Association, in sharing any information, report or document related to the activities described in Schedule 1 of this Agreement, the Recipient shall ensure that such information, report or document does not include Personal Data.</p>	Not yet due	No Change
IDA-D9270	<p>The Recipient shall carry out, jointly with the Association, not later than three (3) years after the Effective Date, or such other period as may be agreed with the</p>	Not yet due	No Change



Association, a mid-term review of the Project ("Mid-Term Review") to assess the status of Project implementation, as measured against the Project indicators acceptable to the Association, and compliance with the legal covenants included or referred to in this Agreement.

LEGAL COVENANTS – Additional Financing to the Tonga Safe and Resilient Schools Project (P178849)

Sections and Description

No information available

Conditions

Type
Effectiveness

Financing source
Trust Funds

Description

The Grant Agreement has been executed and delivered and all conditions precedent to its effectiveness (other than the effectiveness of this Agreement) have been fulfilled.

Type
Effectiveness

Financing source
IBRD/IDA

Description

The Amendment Letter has been executed and delivered and all conditions precedent to its effectiveness (other than the effectiveness of this Agreement) have been fulfilled.



VIII. RESULTS FRAMEWORK AND MONITORING

Results Framework

COUNTRY: Tonga

Additional Financing to the Tonga Safe and Resilient Schools Project

Project Development Objective(s)

To: (i) enhance the safety and resilience of selected education facilities; (ii) improve the quality of data-driven education management, curricula and assessments in the selected educational programs; and (iii) in case of an Eligible Crisis or Emergency, respond promptly and effectively to it.

Project Development Objective Indicators by Objectives/ Outcomes

Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Targeted education facilities constructed to improved performance levels (<i>Action: This Objective has been Revised</i>)								
Targeted education facilities constructed or strengthened to improved performance levels to one or more natural hazards (including climate related impacts) (Number)		0.00	0.00	4.00	18.00	35.00	60.00	60.00
<i>Action: This indicator has been Revised</i>								
Direct beneficiaries with increased safety from new and strengthened education facilities (<i>Action: This Objective has been Revised</i>)								
Direct beneficiaries with increased safety from new and strengthened education facilities		0.00	0.00	400.00	1,800.00	3,500.00	6,000.00	6,000.00



Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
(disaggregated by gender) (Number)								
Action: This indicator has been Revised								
Enhance data-driven sector management and decision making								
Primary and Secondary schools using the new EMIS with up-to-date data in the system according to established guidelines. (Percentage)		0.00	0.00	0.00	40.00	60.00	70.00	80.00
Quality of curricula and assessments for selected subjects and class levels is improved.								
Teachers delivering revised curricula and assessments (Percentage)		0.00	0.00	0.00	0.00	60.00	70.00	80.00

Intermediate Results Indicators by Components

Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Component 1 - Improving Safety and Resilience of Education Facilities (Action: This Component has been Revised)								
Detailed engineering designs incorporating relevant hazard resilience measures are developed (Number)		0.00	0.00	6.00	20.00	60.00	60.00	60.00



Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Action: This indicator has been Revised								
Pilot school maintenance plans developed and implemented for selected schools (Yes/No)		No	No	No	Yes	Yes	Yes	Yes
Strategic School Infrastructure Management and Development Plan developed (Yes/No)		No	No	No	Yes	Yes	Yes	Yes
Action: This indicator has been Revised								
School Infrastructure Maintenance Manuals are delivered and adopted by MET (Yes/No)		No	No	No	Yes	Yes	Yes	Yes
WASH facilities delivered under the project include gender and disability accommodating design (Percentage)		0.00	0.00	0.00	100.00	100.00	100.00	100.00
Beneficiaries are satisfied with the quality of new or upgraded education facilities (Percentage)		0.00	0.00	70.00	70.00	70.00	70.00	70.00
Action: This indicator has been Revised								
Component 2 - Establishment of EMIS and improved quality of curricula and assessments								
A comprehensive EMIS is established, and staff are trained. (Yes/No)		No	No	No	Yes	Yes	Yes	Yes



Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Curricula for the selected subjects and class levels are revised. (Yes/No)		No	No	Yes	Yes	Yes	Yes	Yes
Syllabus, teachers guides, pupils' books are developed, printed, and distributed for school years 1-6. (Number)		0.00	0.00	0.00	0.00	2.00	4.00	6.00
Primary schools recorded sex-disaggregated results from classroom assessment and large-scale assessments (Standardized Test of Achievement of Tonga) in EMIS. (Percentage)		0.00	0.00	0.00	0.00	60.00	80.00	90.00
Teachers are trained to implement revised curriculum and assessments (Number)		0.00	0.00	0.00	250.00	500.00	750.00	750.00
Teachers with knowledge of gender-sensitive pedagogy, including identifying and referring Gender Based Violence (GBV) and Violence Against Children (VAC) (Number)		0.00	0.00	0.00	175.00	350.00	750.00	525.00
Students benefiting from direct interventions to enhance learning (CRI, Number)		0.00	0.00	0.00	5,500.00	11,000.00	17,000.00	17,000.00
Students benefiting from direct interventions to enhance learning -		0.00	0.00	0.00	2,600.00	5,200.00	7,800.00	7,800.00



Indicator Name	PBC	Baseline	Intermediate Targets					End Target
			1	2	3	4	5	
Female (CRI, Number)								
Communities, parents and students are informed about the revision of curricula and assessments (Yes/No)		No	No	Yes	Yes	Yes	Yes	Yes
Component 3 - Contingent Emergency Response Component								
Immediate response mechanism established and ready to provide access to financial resources in case of an eligible climate-related crisis or emergency (Yes/No)		No	Yes	Yes	Yes	Yes	Yes	Yes

Monitoring & Evaluation Plan: PDO Indicators

Indicator Name	Definition/Description	Frequency	Datasource	Methodology for Data Collection	Responsibility for Data Collection
Targeted education facilities constructed or strengthened to improved performance levels to one or more natural hazards (including climate related impacts)	This indicator measures the combined number of new buildings constructed and the number of strengthened/retrofitted buildings under sub-component 1.1. Education Facilities is defined as certain building types	Six monthly	Six monthly report	Site inspection	MET/PMU



	<p>including but not limited to classrooms, water sanitation and hygiene facilities, teachers' housing and other facilities that are essential to school function (such as halls, dormitories, laboratories, libraries, and administration buildings). These facilities may be in place at early child education centers, primary schools, middle schools, secondary schools, and technical and vocational education and training facilities located in Tonga.</p> <p>Delivery or results against this indicator will enhance the safety and resilience of selected education facilities</p>				
Direct beneficiaries with increased safety from new and strengthened education facilities (disaggregated by gender)	<p>This indicator measures the number of total school children who attend the prioritized schools who receive new or retrofitted/strengthened education facilities under sub-component 1.1. Education Facilities is</p>	Six monthly	Six monthly reports	Site inspection and review of school enrollement records	MET/PMU



	defined as certain building types including but not limited to classrooms, water sanitation and hygiene facilities, teachers' housing and other facilities that are essential to school function (such as halls, dormitories, laboratories, libraries, and administration buildings). These facilities may be in place at early child education centers, primary schools, middle schools, secondary schools, and technical and vocational education and training facilities located in Tonga. Delivery or results against this indicator will measure the number of beneficiaries with increased safety from new and strengthened education facilities				
Primary and Secondary schools using the new EMIS with up-to-date data in the system according to established guidelines.		Annual	MET/PMU	Data collection for this indicator will include a requirement for primary and secondary schools prepare a short report on how to use the EMIS data to improve their	MET/PMU



				performance. MET/PMU will conduct a sample-based check to see if primary and secondary schools have prepared a short report on how to use the EMIS data to improve their performance.	
Teachers delivering revised curricula and assessments		Annual	Annual report	Data will be collected for measuring the teaching of the revised curricula as follows: Delivery of the revised curricula will be measured through formal classroom observations, follow up interviews, self-report inventory and focus group interviews conducted at waypoints throughout the project. This will be sample based for teachers who teach Years 1-6 core subjects. delivery of the revised assessments will be measured through observation and survey	MET/PMU



				to monitor the percentage of schools implementing an assessment plan, and carrying out competency based formative and summative assessments.	
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Monitoring & Evaluation Plan: Intermediate Results Indicators

Indicator Name	Definition/Description	Frequency	Datasource	Methodology for Data Collection	Responsibility for Data Collection
Detailed engineering designs incorporating relevant hazard resilience measures are developed	This indicator measures the number of detailed engineering designs that are developed under component 1.1, incorporating relevant standards and hazard resilience measures	Six monthly	Six monthly reports	Review of deliverables	MET PMU
Pilot school maintenance plans developed and implemented for selected schools		Six monthly	Six monthly reports	Review of deliverables/trainings delivered etc	MET PMU
Strategic School Infrastructure Management and Development Plan developed	This indicator measures that a Strategic School Infrastructure and Development Plan has been delivered under Component 1	Six monthly	Six monthly report	Review of deliverables	MET PMU



School Infrastructure Maintenance Manuals are delivered and adopted by MET		Six monthly	Six monthly report	Review of deliverables, survey	MET PMU
WASH facilities delivered under the project include gender and disability accommodating design		Six monthly	Six monthly reports	Design firm outputs reviewed and reflected in six monthly report	MET/PMU
Beneficiaries are satisfied with the quality of new or upgraded education facilities	This is a Citizen Engagement indicator which measures the satisfaction of Principals or Head Teachers at Project Schools supported under Component 1.1 that the delivered facilities meet their expectations. Target is 70% satisfaction of those surveyed	Six Monthly	Six monthly reports	Surveys	MET/PMU
A comprehensive EMIS is established, and staff are trained.		Six monthly	Six monthly report	Deliverable of EMIS and trainings	MET PMU
Curricula for the selected subjects and class levels are revised.		Six monthly	Six monthly report	Deliverables	MET PMU
Syllabus, teachers guides, pupils' books are developed, printed, and distributed for school years 1-6.		Six monthly	Six monthly report	Review of deliverables and proof of distribution to schools.	PMU MET
Primary schools recorded sex-disaggregated results from classroom assessment and large-scale assessments (Standardized Test of Achievement of		Six monthly	EMIS	EMIS	MET PMU



Tonga) in EMIS.					
Teachers are trained to implement revised curriculum and assessments		Six monthly	Six monthly report	surveys/trainings	MET PMU
Teachers with knowledge of gender-sensitive pedagogy, including identifying and referring Gender Based Violence (GBV) and Violence Against Children (VAC)		Six monthly	Six monthly report	surveys/trainings	MET PMU
Students benefiting from direct interventions to enhance learning		Six monthly	This indicator will measure the number of students who receive revised textbooks, based on MET Records	MET records on student numbers and those who have received books will be included in six-monthly reporting	MET PMU
Students benefiting from direct interventions to enhance learning - Female		Six monthly	MET records on student numbers and those who have received books will be included in six-monthly reporting	This indicator will measure the number of female students who receive revised textbooks, based on MET Records	MET PMU
Communities, parents and students are informed about the revision of curricula and assessments		Annually	Reporting in Six monthly reports	MET/PMU to monitor and collect information on information sharing	MET PMU



				initiatives and activities delivered under the project.	
Immediate response mechanism established and ready to provide access to financial resources in case of an eligible climate-related crisis or emergency		Six monthly	Six monthly reports	Review of deliverable	MET PMU

