



## Climate Resilience Improvement Project (CRIP) (P146314)

SOUTH ASIA | Sri Lanka | Social, Urban, Rural and Resilience Global Practice Global Practice |  
IBRD/IDA | Investment Project Financing | FY 2014 | Seq No: 10 | ARCHIVED on 26-Jun-2019 | ISR37693 |

Implementing Agencies: Ministry of Finance, Ministry of Agriculture, Livestock Development, Irrigation, Fisheries and Aquatic Resources Developm

### Key Dates

#### Key Project Dates

Bank Approval Date: 22-Apr-2014

Effectiveness Date: 05-Aug-2014

Planned Mid Term Review Date: 30-Jun-2017

Actual Mid-Term Review Date: 26-May-2017

Original Closing Date: 30-May-2019

Revised Closing Date: 30-Jun-2020

### Project Development Objectives

Project Development Objective (from Project Appraisal Document)

The Project Development Objective (PDO) is to reduce the vulnerability of exposed people and assets to climate risk and to improve Government's capacity to respond effectively to disasters.

Has the Project Development Objective been changed since Board Approval of the Project Objective?

No

### Components

Name

Development of basin investment plans:(Cost \$21.50 M)

Increasing climate resilience of infrastructure:(Cost \$122.30 M)

Project implementation:(Cost \$5.00 M)

Contingent emergency response:(Cost \$3.20 M)

### Overall Ratings

Name	Previous Rating	Current Rating
Progress towards achievement of PDO	● Moderately Satisfactory	● Moderately Satisfactory
Overall Implementation Progress (IP)	● Moderately Satisfactory	● Moderately Satisfactory
Overall Risk Rating	● Moderate	● Moderate

### Implementation Status and Key Decisions

#### Component 1: Development of Basin Investment Plans (BIPs)

Progress of Component 01, Development of Basin Investment Plans is behind schedule:

- The completion of planned deliverables under the Component 1 has been delayed due to several reasons. The original work plan included two Phases: a) Phase I to complete flood and drought risk mitigation investment plans for six priority basins together with training and capacity building of the Government's counterpart team of engineers for basin investment planning (BIP); and b) Phase II to complete



prioritized feasibility studies identified in Phase I BIPs and to prepare BIPs for another four river basins by the trained counterpart engineers under the supervision of an international consultancy firm. Both the phases were to be carried out by a same international consultancy firm.

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- The international consultant has just completed its scope of services for Phase I contract, including the capacity building of the counterpart team, but with significant delay than their original work program. At the same time, the Consultant has informed the Government that they are not interested to engage in the Phase II under a new contract. The delays in Phase I were due to: i) initial delays of the Government in hiring the consultant, providing data and information required by the Consultant to start up the studies, and changing the priority basins between Phase I and Phase II; and b) Consultant's own delays in completing the deliverables and finalizing them incorporating the technical review comments from the Government and the Bank. This situation has now compelled the Government to complete the Phase II within the remaining 12 months of the project before its closure in June 2020.
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- The Government has now decided to take an alternative approach to complete the scope of the Phase II. The BIPs for the remaining four basins will be completed by the trained counterpart engineers, and three international experts will be hired to guide the counterpart engineers and to ensure the quality of the BIP process. The prioritized feasibility studies (six) will be tendered as separate contracts so that the PMU can employ several consultancy firms to complete the feasibility studies as planned. The Government is confident that these feasibility studies will take maximum of 8-9 months, thus can be completed before the project closing date. The team will closely monitor the progress of this activity.
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- Following the catastrophic floods in Kelani river basin in 2016, the Government decided to expedite the BIP (initially Kelani was not among the priority six basins) for Kelani river basin and advance the feasibility study for the downstream flood protection investments. The Government, with concurrence from the Cabinet of Ministers and the Bank, revised the original Phase I contract and engaged the same Consultant to undertake the feasibility study for lower Kelani flood protection infrastructure and completed in September 2018.
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- Since the Government wanted to implement lower Kelani flood mitigation investments urgently due to the extremely high risk, the Cabinet of Ministers and the Bank approved single source selection of the same consultancy firm to undertake the detailed engineering designs for lower Kelani flood protection infrastructure. However, the firm was very slow in responding to the Government's requirements thus the Government decided to hire a new international consultancy firm through competitive bidding for detailed engineering designs, and the procurement process is in progress.

## Component 2: Resilience of Infrastructure

The progress of rehabilitation of flood damaged irrigation, drainage and flood control infrastructure; upgrading of inadequate bridges; and stabilization of unstable slopes in schools in Kandy district are satisfactory. However the progress of stabilization of unstable road slopes on national highways implemented by Road Development Authority (RDA) and those of Uva Provincial Roads implemented by Uva Provincial Road Development Department (Uva-PRDD) are delayed and moderately satisfactory.

**1. Rehabilitation of flood damaged Irrigation, Drainage and Flood Control Infrastructure:** Of the planned 534 contracts of the original Credit for repairs to irrigation, drainage and flood control infrastructure, 506 contracts have been awarded; 390 have been completed; 108 are ongoing at satisfactory implementation progress. Still there are 28 small scale contracts are to be awarded for which bidding documents are being finalized. All the contracts can be completed by the Credit closing date.

### 2. Transport connectivity:

**Bridges:** Of the planned 13 contracts for improvements to bridges on national highways, 9 contracts have been completed; 3 contracts are ongoing, 2 with satisfactory progress and 1 with poor progress. The remaining 1 contract is yet to be awarded and the bid preparation is in progress. The PMU has been advised to take appropriate contract actions on the poorly performing contract. All the contracts can be completed by the Credit closing date.



**Slope stabilization on national roads:** Of the planned 11 contracts, 9 have been awarded and the procurement is ongoing for the remaining two packages. Out of the awarded contracts, 5 contracts have been completed and works related to 4 contracts are ongoing. This work program is behind schedule and needs full attention of RDA to expedite. However, the team is of the view that the remaining work can be completed by the project closing date.

**Slope stabilization on Uva provincial roads:** Of the 11 slope stabilizations contracts planned, 07 contracts have been awarded; 03 contracts completed; work is ongoing under 04 contracts. The remaining 04 contracts are yet to be awarded, and the bids have just been invited for those. Uva PRDD has been advised to expedite the procurement process in order to allow sufficient time for construction. Given the time taken by previous contracts, the team questioned the feasibility of completing these four contracts within the project closing date and the PMU has informed the Chief Secretary of the Uva Provincial Council that the costs of the works not completed by project closing date will have to be borne by the provincial council and to award the contracts in case if the council is confident that these contracts can be completed by project closure, or if the council can bear the spill over costs.

**3. School Safety:** All the 12 contracts planned under this sub-component for stabilizing unstable slopes in 18 vulnerable schools in Kandy district have been successfully completed.

#### Component 4: Contingent Emergency Response Component (CERC)

The Contingent Emergency Response Component (CERC) was activated to an amount of US\$ 3 million to rehabilitate the rural connectivity infrastructure damaged by 2017 floods in Ratnapura, Kalutara, Galle and Hambantota districts. CERC was originally allocated with US\$ 1.8 million, and the balance US\$ 1.2 million was reallocated from Component 02 savings. The CERC activities are progressing well and 23 out of the 27 contracts have been awarded. It is expected that all construction is completed by end of December 2019. The PMU and the National Planning Department (NPD) should closely follow up on the progress of CERC funded activities.

## Risks

### Systematic Operations Risk-rating Tool

Risk Category	Rating at Approval	Previous Rating	Current Rating
Political and Governance	--	● High	● High
Macroeconomic	--	● Moderate	● Moderate
Sector Strategies and Policies	--	● Moderate	● Moderate
Technical Design of Project or Program	--	● Moderate	● Moderate
Institutional Capacity for Implementation and Sustainability	--	● Moderate	● Moderate
Fiduciary	--	● Moderate	● Moderate
Environment and Social	--	● Moderate	● Moderate
Stakeholders	--	● Low	● Low
Other	--	--	--
Overall	--	● Moderate	● Moderate

## Results

## PDO Indicators by Objectives / Outcomes

Reducing vulnerability of exposed people and assets to climate and disaster risks.				
▶Area benefitted with reduced annual crop losses due to weather related events in the selected schemes (Hectare(Ha), Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	51,000.00	52,462.00	113,000.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
▶People benefitted from reduced weather related transport interruptions (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	800,000.00	1,017,000.00	1,800,000.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
▶Number of school children protected from reduced landslide risks in selected schools (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	21,000.00	29,000.00	29,000.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
▶Development of basin investment plans that are based on integrated understanding of climate risk (Number, Custom)				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	4.00	6.00	10.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020

## Overall Comments

The landslide risk mitigation works in schools are completed and the end target of protecting 29,000 school children is achieved. The development of basin investments plans are behind the schedule, however, six basin investment plans are completed now and only 4 are remaining and will be completed by the end of the project.

## Intermediate Results Indicators by Components

Component 1: Development of basin investment plans

▶Number of risk mitigation feasibility studies developed (Number, Custom)



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	2.00	2.00	10.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>►Number of MIWRM staff trained in modeling climate risks (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	40.00	40.00	40.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>►Flood and drought risk models developed (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	60.00	93.00	100.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	31-Dec-2019
<b>►DEM and hydro-meteorological data for the nine basins collected and compiled for analysis (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	01-Apr-2014	30-Nov-2016	30-Nov-2016	31-May-2016

## Component 2: Increasing climate resilience of infrastructure

### ►Length of roads with transport connectivity ensured (Kilometers, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	200.00	253.00	560.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020

### ►Number of schools protected against landslides (Number, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	14.00	18.00	18.00
Date	05-Aug-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020

### ►Detailed school landslide stabilization designs completed (Percentage, Custom)

	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00



Date	01-Apr-2014	31-Oct-2017	31-Oct-2017	31-Oct-2017
<b>▶Number of bridges raised and causeways replaced (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	10.00	10.00	16.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>▶Detailed road side slope stabilization and bridge designs completed (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	100.00	100.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	31-Oct-2018
<b>▶Length of improved farm link roads (Kilometers, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	41.00	42.00	59.00
Date	01-Apr-2014	29-Jun-2018	30-Jun-2019	30-Jun-2020
<b>▶Number of improved culverts and small bridges (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	235.00	320.00	460.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>▶Length of improved spill tail canal (Kilometers, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	24.00	28.00	31.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>▶Length of rehabilitated flood bund (Kilometers, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	52.00	14.00	45.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-May-2020
Comments:	The length of Km reported in November 2018 has to be corrected to 5.2 Km and not 52.			
<b>▶Length of improved flood drainage canal (Kilometers, Custom)</b>				



	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	95.00	95.00	103.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>►Number of improved structures in distribution canals (Number, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	3,921.00	5,947.00	6,200.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>►Length of improved distribution canals (Kilometers, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	340.00	561.00	600.00
Date	01-Apr-2014	30-Nov-2018	30-Jun-2019	30-Jun-2020
<b>►Detailed flood mitigation designs completed (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	01-Apr-2014	31-Oct-2017	31-Oct-2017	31-Dec-2018
<b>►Local flood risk analyses and modeling to support immediate mitigation (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	100.00	100.00	100.00
Date	01-Apr-2014	31-Oct-2017	31-Oct-2017	31-Dec-2018
<b>►Beneficiaries that feel project investments reflect their needs (Percentage, Custom)</b>				
	Baseline	Actual (Previous)	Actual (Current)	End Target
Value	0.00	0.00	81.00	75.00
Date	31-Dec-2015	30-Nov-2018	30-Jun-2019	30-Jun-2020
Comments:	The project investments are still ongoing. The Monitoring and Evaluation Unit of the PMU has conduct consultations with beneficiaries in the sites where the works have already been completed, and received significant positive feedback. The PMU is planning for a structured, independent beneficiary feedback survey January 2020 to support the Completion Reporting.			

## Data on Financial Performance



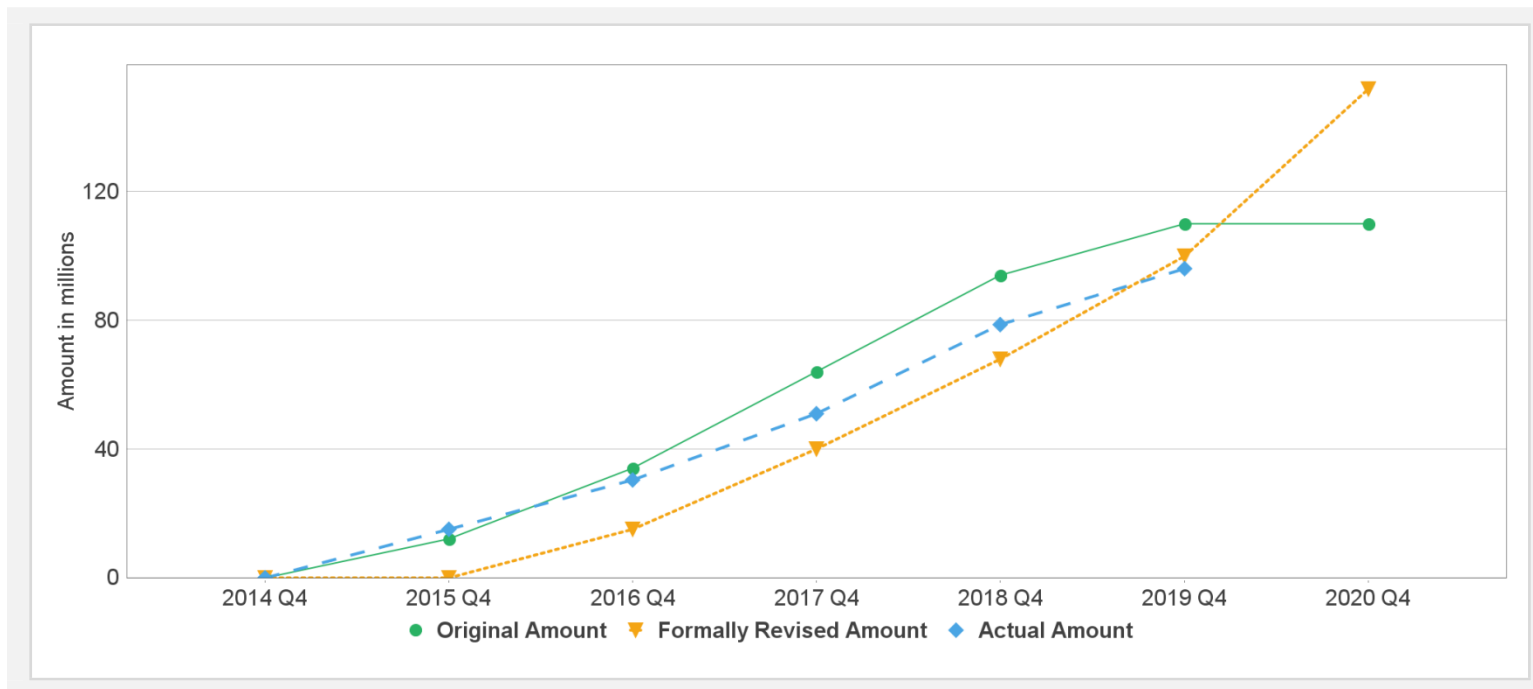
**Disbursements (by loan)**

Project	Loan/Credit/TF	Status	Currency	Original	Revised	Cancelled	Disbursed	Undisbursed	% Disbursed
P146314	IDA-54170	Effective	USD	110.00	110.00	0.00	73.18	27.20	73%
P146314	IDA-57680	Effective	USD	42.00	42.00	0.00	22.92	19.49	54%

**Key Dates (by loan)**

Project	Loan/Credit/TF	Status	Approval Date	Signing Date	Effectiveness Date	Orig. Closing Date	Rev. Closing Date
P146314	IDA-54170	Effective	22-Apr-2014	10-Jul-2014	05-Aug-2014	30-May-2019	30-Jun-2020
P146314	IDA-57680	Effective	21-Mar-2016	05-Sep-2016	06-Oct-2016	30-May-2019	30-Jun-2020

**Cumulative Disbursements**



**Restructuring History**

Level 2 Approved on 05-Oct-2018

**Related Project(s)**





P157392-Climate Resilience Improvement Project Additional Financing

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