

Updated Facility Administration Manual

Project Number: 47273

MFF Number: 0086

Loan Numbers: Tranche 1 – 3171

Tranche 2 – 3221/3222

Tranche 3 – 3325/3326

Tranche 4 – to be decided

Updated: 10 October 2017

Original: 11 July 2014

Democratic Socialist Republic of Sri Lanka:
Integrated Road Investment Program

ABBREVIATIONS

ADB	=	Asian Development Bank
ADF	=	Asian Development Fund
CRC	=	conventional road contract
DMF	=	design and monitoring framework
EA	=	executing agency
EARF	=	environmental assessment and review framework
EMP	=	environmental management plan
EMOP	=	environmental monitoring plan
ESDD	=	Environment and Social Development Division of Road Development Authority
FAM	=	Facility Administration Manual
FFA	=	framework financing agreement
GAP	=	gender action plan
ICTAD	=	Institute for Construction, Training and Development
IEE	=	initial environmental examination
IPP	=	indigenous peoples plan
IPPF	=	indigenous peoples planning framework
iRoad	=	Integrated Road Investment Program
km	=	kilometer
MOEH	=	Ministry of Higher Education and Highways (formerly Ministry of Highways, Ports and Shipping)
OPRC	=	output- and performance-based road contract
PFR	=	periodic financing request
PIC	=	project implementation consultant
PIU	=	project implementation unit
PPMS	=	project performance management system
RDA	=	Road Development Authority
RF	=	resettlement framework
RP	=	resettlement plan
RMC	=	road management contract
RRP	=	report and recommendation of the President to the Board
SAPE	=	survey and preliminary engineering consultant
SOE	=	statement of expenditure
SPS	=	Safeguard Policy Statement

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

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Facility Administration Manual Purpose and Process

The facility administration manual (FAM) describes the essential administrative and management requirements to implement the investment program on time, within budget, and in accordance with the policies and procedures of the Government of Sri Lanka and Asian Development Bank (ADB). The FAM should include references to all available templates and instructions either through linkages to relevant URLs or directly incorporated in the FAM.

The executing and implementing agencies are wholly responsible for the implementation of ADB financed projects under the investment program, as agreed jointly between the borrower and ADB, and in accordance with the policies and procedures of the Government of Sri Lanka and ADB. ADB staff is responsible for supporting implementation including compliance by the executing and implementing agencies of their obligations and responsibilities for project implementation in accordance with ADB's policies and procedures.

At loan negotiations, the borrower and ADB shall agree to the FAM and ensure consistency with the loan agreement. Such agreement shall be reflected in the minutes of the loan negotiations. In the event of any discrepancy or contradiction between the FAM and the loan agreement, the provisions of the loan agreement shall prevail.

After ADB Board approval of the investment program's report and recommendation of the President (RRP), changes in implementation arrangements are subject to agreement and approval pursuant to relevant government and ADB administrative procedures (including the Project Administration Instructions), and upon such approval, they will be subsequently incorporated in the FAM.

I. INVESTMENT PROGRAM DESCRIPTION

1. Poor transport infrastructure in the Democratic Socialist Republic of Sri Lanka has hindered the spread of economic activities and access to basic health and education resources in rural areas. The impact of the Integrated Road Investment Program will be improved connectivity between rural communities and socioeconomic centers. The outcome will be increased transport efficiency on project roads. The investment program will deliver two outputs: (i) improved road conditions between selected rural communities and socioeconomic centers, and (ii) enhanced capacity of road agencies. The two outputs will be achieved through two components:

- (i) **Road improvement component** will design, improve, and maintain about 3,108 kilometers (km) of rural access roads, including provincial and local authority roads, and about 248 km of national roads.
- (ii) **Capacity development component** will build the capacity of road agencies on road asset management, project management, and contract administration.

2. The investment program comprises five projects: Project 1 in Southern Province, Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province, Project 3 in Central Province, Project 4 in North Central Province, and Project 5 in North Western Province. The multitranche financing facility (MFF) finances slices of long-term contract packages under the investment program. Each tranche will finance slices of a group of contracts for civil works or consulting services. Each contract is sliced according to the indicative tranching schedule.

3. **Tranche 1 and Project 1.** Project 1 is estimated to cost \$235 million. The first tranche requires a loan of \$100 million from ADB's Special Funds resources to finance the first slice of Project 1, which will deliver three outputs: (i) improved road conditions between selected rural communities and socioeconomic centers in Southern Province; (ii) enhanced capacity of road agencies, including the Ministry of Higher Education and Highways (MOHEH), the Road Development Authority (RDA), and road agencies in Southern Province; and (iii) project preparation of succeeding tranches.

4. A list of roads under Project 1 is in Attachment A. Civil works in Project 1 involve two types of contract modalities:

- (i) **Conventional road contracts.** The conventional measure and value road contracts (CRC), requiring detailed contract supervision, will be used for the rehabilitation of provincial, local authority, and isolated national road sections. Initial construction is to be completed in the first 1–2 years, followed by a 3-year maintenance period.
- (ii) **Road management contracts.** The road management contracts (RMC) is based on the sample bidding documents developed by the World Bank for output- and performance-based road contracts.¹ Within each package, a significant proportion will require rehabilitation in the first 1–2 years, with the remainder possibly requiring periodic resurfacing throughout the contract period (7 years in total). Routine maintenance of the entire length throughout the contract period is part of the work.

¹ World Bank. 2006. *Procurement of Works and Services under Output- and Performance-based Road Contracts and Sample Specifications*. Washington, DC.

5. **Tranche 2 and Projects 2, 3, 4, and 5.** Tranche 2 finances the first slice of four projects: (i) Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province, (ii) Project 3 in Central Province, (iii) Project 4 in North Central Province, and (iv) Project 5 in North Western Province.

6. The total costs of Projects 2, 3, 4, and 5 are estimated at \$605.74 million. Tranche 2 requires a loan of \$98 million from ADB's ordinary capital resources, and \$9 million equivalent from ADB's Special Funds resources to finance the first slice of Projects 2, 3, 4, and 5. The output of Tranche 2 will be improved road conditions between the selected rural communities and socioeconomic centers. The component will design, improve, and maintain about 2,548 kilometers (km) of rural access roads and about 118 km of national roads. The rural access roads will be improved to all-weather standards and will be maintained for 3 years. Selected national road corridors will be improved and maintained for 7 years, while short, isolated sections will be maintained for 3 years after improvement.

7. A list of roads under Projects 2, 3, 4, and 5 is in Attachment A. The civil works will involve two types of contract modalities as described in para. 4.

8. **Tranches 3 and 4.** Tranches 3 and 4 will respectively finance the second and third slices of the five projects that were appraised under Tranches 1 and 2.

II. IMPLEMENTATION PLAN

Table 1: Implementation Plan

MFF Availability Period		2014				2015				2016				2017				2018				2019				2020				2021				2022				2023				2024															
						Year 1				Year 2				Year 3				Year 4				Year 5				Year 6				Year 7				Year 8				Year 9				Year 10															
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4																				
Activity																																																									
A	Project Preparation																																																								
1	Preparation of Project 1																																																								
2	Preparation of Projects 2, 3, 4 and 5																																																								
B	Project Management																																																								
1	Establishment of PIU																																																								
2	Selection of consultants																																																								
3	Procurement of civil works under Project 1																																																								
4	Procurement of civil works under Projects 2, 3, 4 and 5																																																								
5	Contract administration																																																								
C	Civil Works																																																								
1	Implementation of civil works under Project 1																																																								
2	Implementation of civil works under Project 2																																																								
3	Implementation of civil works under Project 3																																																								
4	Implementation of civil works under Project 4																																																								
5	Implementation of civil works under Project 5																																																								
D	Capacity Bulding																																																								
1	Capacity bulding program																																																								
A15	Transportation infrastructure for the 1st and 2nd Pillars of the Strategy																																																								

MFF = multitranchise financing facility, PIU = project implementation unit.

Source: Road Development Authority.

III. PROJECT MANAGEMENT ARRANGEMENTS

A. Project Implementation Organizations – Roles and Responsibilities

Table 2: Roles and Responsibilities

Project Stakeholders	Management Roles and Responsibilities
Executing agency (EA)	Ministry of Higher Education and Highways (MOHEH, formerly Ministry of Highways, Ports and Shipping) • overall coordination of project implementation • interagency coordination
Implementing agency (IA)	Road Development Authority (RDA) • day-to-day project and safeguards management • consultant recruitment and procurement of works • management of withdrawal applications • preparation of project progress reports and safeguard monitoring reports • maintenance of project accounts and complete loan financial records
National Steering Committee Chair: Secretary of MOHEH Members: • Chief Secretaries of the provinces under the investment program • Secretary, Finance Commission • Director General, RDA • Project Director under the investment program • Commissioners of local government authorities under the investment program • Heads of provincial road agencies • District Secretaries • External Resources Department, National Planning Department, Budget Department, and Project Management and Monitoring Department	• oversee and monitor project implementation, as well as the adequacy of overall project funding • hold meetings as required at least quarterly to discuss overall status and project issues, and invite representatives from the Central Environmental Agency, Geological Survey and Mines Bureau, and utility agencies (electricity, telecommunications, water, and drainage) for coordination purposes, when and as necessary
Provincial Coordination Committees Chair: Chief Secretary of the province Members: • Project Director (Secretary to the Committee) • District Secretaries • Representatives of provincial road agencies • Representatives of local authorities	• coordinate and facilitate project implementation • hold meetings as required at least quarterly to discuss implementation progress and address project issues, and invite representatives from the relevant offices, when and as necessary • a coordination committee will be established in each province under the investment program
Asian Development Bank	• monitor and review overall implementation of the project in consultation with the EAs/IAs, including the project implementation schedule; actions required in terms of poverty reduction, environmental impacts, and resettlement plans, if applicable; timeliness of budgetary allocations and counterpart funding; project expenditures; progress of procurement and disbursement; statement of expenditure when applicable; compliance with particular loan covenants; and the likelihood of attaining the project's immediate development objectives

B. Key Persons Involved in Implementation

Executing Agency

MOHEH

Mr. D. C. Dissanayake
Secretary
Ministry of Higher Education and Highways
Maga Neguma Maha Medura
No. 216, Denzil Kobbekaduwa Mawatha
Battaramulla, Sri Lanka
Telephone: +94 11 2887462
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Implementing Agency

RDA

Mr. N. R. Sooriyarachchi
Chairman, Road Development Authority
Maga Neguma Maha Medura
No. 216, Denzil Kobbekaduwa Mawatha
Battaramulla, Sri Lanka
Telephone: +94 11 2862767
Fax: +94 11 2864801

Mr. D. K. R. Swarna
Director General, Road Development Authority
Maga Neguma Maha Medura
No. 216, Denzil Kobbekaduwa Mawatha
Battaramulla, Sri Lanka
Telephone: +94 11 2862795 / 2862485
Fax: +94 11 2872272 / 2889363

Ms. Jennifer Weerakoon
Project Director (Project Coordination/Western Province)
Integrated Road Investment Program
Road Development Authority
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ADB

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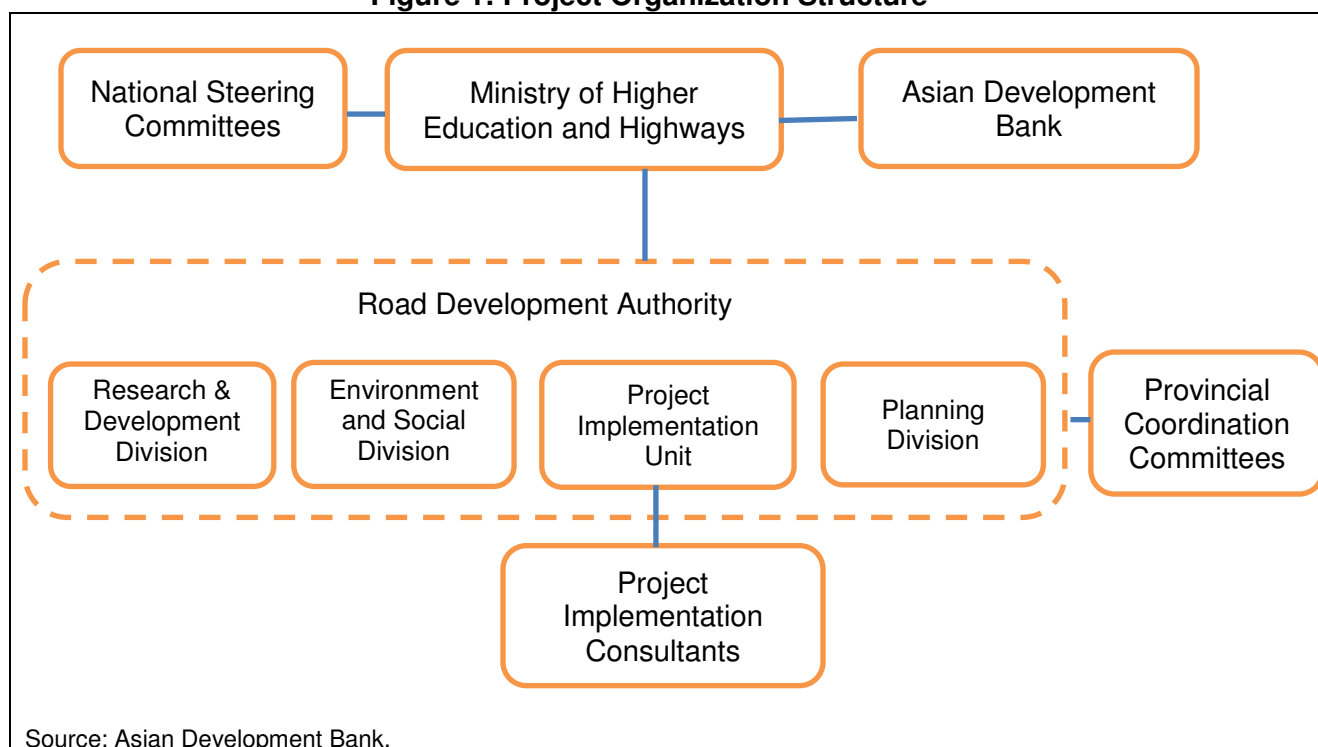
Resident Mission Focal

Aruna Nanayakkara
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 Sri Lanka Resident Mission (SLRM)
 Telephone: +94 11 4455455
 Email address: ananayakkara@adb.org

C. Project Organization Structure

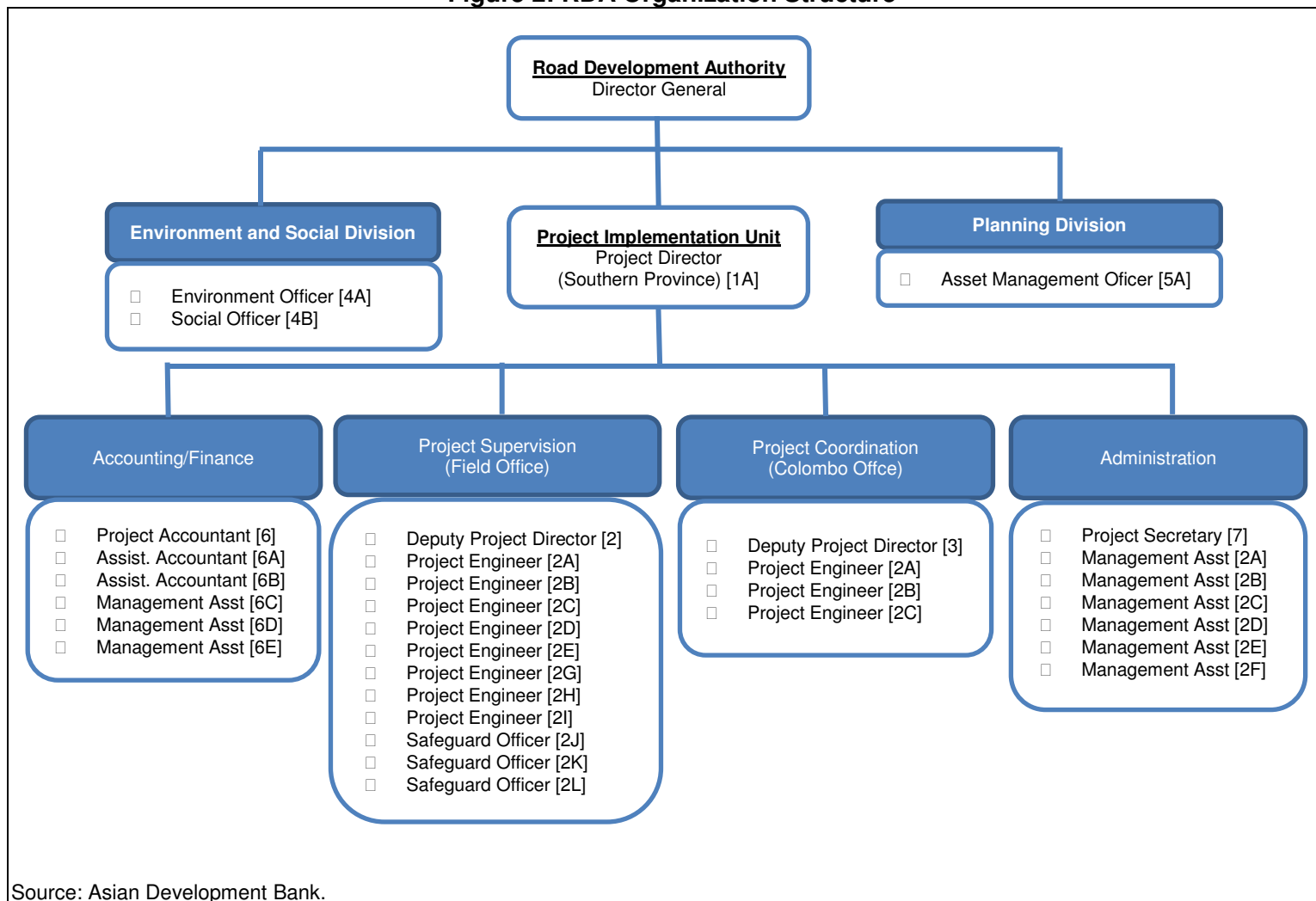
9. The chart below shows the reporting lines and essential internal structures of key organizations involved in the investment program's implementation, including the national steering committee, executing agency, provincial coordinating committees, implementing agency, and project implementation unit.

Figure 1: Project Organization Structure



10. The following chart shows the reporting lines and essential internal structures of the project implementation units (PIU) and their staffing assignments. The next tables show the staffing assignments and recruitment plans for Central Province, North Central Province, North Western Province, Sabaragamuwa Province, Southern Province, and the project coordination plan for Western Province. Currently, the PIU has been established for the implementation of works in Southern Province and for the preparation of future tranches. The RDA will review and strengthen the PIU as required for the projects in other provinces.

Figure 2: RDA Organization Structure



Source: Asian Development Bank.

Table 3: Staffing Assignment and Recruitment Plan - Central Province

Sr. No.		Position	Name	Existing	New Recruit (Timeframe)
1	[1]	Project Director (CP)	Mr. A.S.A. Azher	☒ Appointed	
2	[2]	Deputy Project Director		☐ Appointed	
3	[2A]	Project Engineer 1	Mr. K.P. Jayawardena	☒ Appointed	
4	[2B]	Project Engineer 2	Ms. S.T. Kumuduni	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. M.K.M. Kamil	☒ Appointed	
6	[2D]	Project Engineer 4	Mr. M.W.A.P.G. Wijesingha	☒ Appointed	
7	[2E]	Project Engineer 5	Mr. A.C.S. Fernando	☒ Appointed	
8	[2F]	Project Engineer 6	Mr. P.H.K.H. Priyankara	☒ Appointed	
9	[2G]	Project Engineer 7	Mr. D.C. Gopallawa	☒ Appointed	
10	[2H]	Project Engineer 8		☐ Appointed	
11	[2I]	Project Engineer 9		☐ Appointed	
12	[2J]	Safeguard Officer 1	Ms. N.K. Nawaratna	☒ Appointed	
13	[2K]	Safeguard Officer 2	Mr. V.K.N. Sameera	☒ Appointed	
14	[2L]	Safeguard Officer 3		☐ Appointed	
15	[4A]	Environment Officer	Mr. C.L.K. Wakkumbura	☒ Appointed	
16	[4B]	Social Officer	Ms. M.R.N.S. Sumanapala	☒ Appointed	
17	[5A]	Asset Management Officer		☐ Appointed	
18	[6]	Project Accountant	Mr. D.M.G. Abeyratna	☒ Appointed	
19	[6A]	Assistant Accountant 1	Mr. M.H.D.S. Manikkahetti	☒ Appointed	
20	[6B]	Assistant Accountant 2		☐ Appointed	
21	[6C]	Management Assistant 1	Mr. U.H.R.K.W. Henakgedara	☒ Appointed	
22	[6D]	Management Assistant 2	Mr. K.M.D. Sumanasena	☒ Appointed	
23	[6E]	Management Assistant 3	Mr. Z.A.A. Mohomad	☒ Appointed	
24	[7]	Project Secretary		☐ Appointed	
25	[6A]	Administrative Assistant	Ms. D.L. Nettikumara	☒ Appointed	
26	[6B]	Management Assistant 1	Mr. Z.A.A. Mohomad	☒ Appointed	
27	[6C]	Management Assistant 2	Mr. U.H.R. Henakgedara	☒ Appointed	
28	[6D]	Management Assistant 3	Mr. W. Wickramaarachchi	☒ Appointed	
29	[6E]	Management Assistant 4	Mr. K.M. Sumanasena	☒ Appointed	
30	[6F]	Management Assistant 5	Mr. A.M.G.T. Abeysekara	☒ Appointed	
31	[6G]	Office Aide 1	Mr. A.R. Preetikumara	☒ Appointed	
32	[6H]	Office Aide 2	Mr. M.T.M. Muneef	☒ Appointed	
33	[6I]	Office Aide 3	Mr. M.S.N.P. Bandara	☒ Appointed	
34	[6J]	Driver 1	Mr. K.A.I.M. Kaluarachchi	☒ Appointed	
35	[6K]	Driver 2	Mr. M.A.M. Safraz	☒ Appointed	

Table 4: Staffing Assignment and Recruitment Plan - North Central Province

Sr. No.		Position	Name	Existing	New Recruit (Timeframe)
1	[1]	Project Director (NCP)	Mr. J. Sirinivasan	☒ Appointed	
2	[2]	Deputy Project Director	Mr. A.M.U. Arampola	☒ Appointed	
3	[2A]	Project Engineer 1	Mr. A. Bamunusingha	☒ Appointed	
4	[2B]	Project Engineer 2	Mr. M.V.S. Bandara	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. V. Sudhahar	☒ Appointed	
6	[2D]	Project Engineer 4	Mr. N.A.A.G Nissanka	☒ Appointed	
7	[2E]	Project Engineer 5	Mr. H.G.N.M. Nawarathna	☒ Appointed	
8	[2F]	Project Engineer 6	Mr. N.M.H.B. Nawarathna	☒ Appointed	
9	[2G]	Project Engineer 7	M.M.S.D. Ratnayaka	☒ Appointed	
10	[2H]	Project Engineer 8		☐ Appointed	
11	[2I]	Project Engineer 9		☐ Appointed	
12	[2J]	Safeguard Officer 1	Mr. R.H.N.J. Jayathissa	☒ Appointed	
13	[2K]	Safeguard Officer 2		☐ Appointed	
14	[2L]	Safeguard Officer 3		☐ Appointed	
15	[4A]	Environment Officer	Mr. J.A.P.N.J. Bandara	☒ Appointed	
16	[4B]	Social Officer	Mr. A.M. Lafeer	☒ Appointed	
17	[5A]	Asset Management Officer		☐ Appointed	
18	[6]	Project Accountant		☐ Appointed	
19	[6A]	Assistant Accountant 1	Mr. P. Kokilan	☒ Appointed	
20	[6B]	Assistant Accountant 2	Mr. S. Gopikrishnan	☒ Appointed	
21	[6C]	Management Assistant 1	Mr. L.D.L. Perera	☒ Appointed	
22	[6D]	Management Assistant 2	D.M.A.N. Dissanayaka	☒ Appointed	
23	[6E]	Management Assistant 3	N.N. Williams	☒ Appointed	
24	[7]	Project Secretary		☐ Appointed	
25	[6A]	Administrative Assistant		☐ Appointed	
26	[6B]	Management Assistant 1	Mr. L.S.R. Arachchi	☒ Appointed	
27	[6C]	Management Assistant 2	Ms. P.A.C.N. Peramunaarachchi	☒ Appointed	
28	[6D]	Management Assistant 3	Mr. G.K.P. Gunarathna	☒ Appointed	
29	[6E]	Management Assistant 4	Mr. M.S.H. Mohamed	☒ Appointed	
30	[6F]	Management Assistant 5	Ms. R.A.U.D. Ranasinghe	☒ Appointed	
31	[6G]	Office Aide 1	Mr. D.M.D.R. Dasanayake	☒ Appointed	
32	[6H]	Office Aide 2	Mr. Y.M.U.K. Bandara	☒ Appointed	
33	[6I]	Office Aide 3	Mr. E.A.G.T.B. Athauda	☒ Appointed	
34	[6J]	Driver 1	Mr. L.I.N. Liyanage	☒ Appointed	
35	[6K]	Driver 2	Mr. J.A.A. Sattar	☒ Appointed	

Table 5: Staffing Assignment and Recruitment Plan - North Western Province

Sr. No.		Position	Name	Existing	New Recruit (Timeframe)
1	[1]	Project Director (NWP)	Mr. R.M.P. Rathnayake	☒ Appointed	
2	[2]	Deputy Project Director		☐ Appointed	
3	[2A]	Project Engineer 1	Mr. W.L.D. Botheju	☒ Appointed	
4	[2B]	Project Engineer 2	Mr. P.M.T.P. Pathiraja	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. H.A.S. Desappriya	☒ Appointed	
6	[2D]	Project Engineer 4	Mr. D.M.S.S. Bandara	☒ Appointed	
7	[2E]	Project Engineer 5	Mr. W.M.P.S. Wijeratna	☒ Appointed	
8	[2F]	Project Engineer 6	Mr. P.M.N. Fernando	☒ Appointed	
9	[2G]	Project Engineer 7		☐ Appointed	
10	[2H]	Project Engineer 8		☐ Appointed	
11	[2I]	Project Engineer 9		☐ Appointed	
12	[2J]	Safeguard Officer 1	S.N. Pathiraja	☒ Appointed	
13	[2K]	Safeguard Officer 2		☐ Appointed	
14	[2L]	Safeguard Officer 3		☐ Appointed	
15	[4A]	Environment Officer	M.D.K.S. Thilakasiri	☒ Appointed	
16	[4B]	Social Officer	P.M.V.S.B. Pallegama	☒ Appointed	
17	[5A]	Asset Management Officer		☐ Appointed	
18	[6]	Project Accountant		☐ Appointed	
19	[6A]	Assistant Accountant 1	M.A.N. Herath	☒ Appointed	
20	[6B]	Assistant Accountant 2		☐ Appointed	
21	[6C]	Management Assistant 1	S.U. Gunathilaka	☒ Appointed	
22	[6D]	Management Assistant 2	K.K.K. Kumari	☒ Appointed	
23	[6E]	Management Assistant 3		☐ Appointed	
24	[7]	Project Secretary		☐ Appointed	
25	[6A]	Administrative Assistant		☐ Appointed	
26	[6B]	Management Assistant 1	Mr. N.C. Nissanka	☒ Appointed	
27	[6C]	Management Assistant 2	Mr. M.N.M. Anees	☒ Appointed	
28	[6D]	Management Assistant 3	Mr. A.V.S.L. Premawansa	☒ Appointed	
29	[6E]	Management Assistant 4	Mr. A.M.M. Naslim	☒ Appointed	
30	[6F]	Management Assistant 5	K.P.T. Viraj	☒ Appointed	
31	[6G]	Office Aide 1	Mr. W.M.A.B. Weerasooriya	☒ Appointed	
32	[6H]	Office Aide 2	Mr. N.W.M.S. Navarathna	☒ Appointed	
33	[6I]	Office Aide 3	Mr. M.D.W. Akram	☒ Appointed	
34	[6J]	Driver 1	Mr. Y.P.K.S. Samaranayake	☒ Appointed	
35	[6K]	Driver 2	Mr. K.A.A. Jayakody	☒ Appointed	

Table 6: Staffing Assignment and Recruitment Plan - Sabragamuwa Province

Sr. No.		Position	Name	Existing	New Recruit (Timeframe)
1	[1]	Project Director (SAB)	Mr. A.A. Premathilaka	☒ Appointed	
2	[2]	Deputy Project Director		☐ Appointed	
3	[2A]	Project Engineer 1	Mr. I.K.N.S.P. Bandara	☒ Appointed	
4	[2B]	Project Engineer 2	Mr. M.J.M. Hassan	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. L.D.C. Liyanaarachchi	☒ Appointed	
6	[2D]	Project Engineer 4	Mr. R.A.S.P. Kulathunga	☒ Appointed	
7	[2E]	Project Engineer 5	Mr. L.A.T.U. Liyanaarachchi	☒ Appointed	
8	[2F]	Project Engineer 6		☐ Appointed	
9	[2G]	Project Engineer 7		☐ Appointed	
10	[2H]	Project Engineer 8		☐ Appointed	
11	[2I]	Project Engineer 9		☐ Appointed	
12	[2J]	Safeguard Officer 1	Mr. P.G.E.N. Wijyaratna	☒ Appointed	
13	[2K]	Safeguard Officer 2	Mr. K.P.A.U. Samaranayaka	☒ Appointed	
14	[2L]	Safeguard Officer 3		☐ Appointed	
15	[4A]	Environment Officer	Mr. K.T.J.W. Kumara	☒ Appointed	
16	[4B]	Social Officer	Mr. D.M. Premaratna	☒ Appointed	
17	[5A]	Asset Management Officer		☐ Appointed	
18	[6]	Project Accountant	Mr. J.M.A.U.W.B. Jayasundara	☒ Appointed	
19	[6A]	Assistant Accountant 1		☐ Appointed	
20	[6B]	Assistant Accountant 2		☐ Appointed	
21	[6C]	Management Assistant 1	Mr. M.H.M. Fayas	☒ Appointed	
22	[6D]	Management Assistant 2	Ms. E.H.T.S. Jayaratna	☒ Appointed	
23	[6E]	Management Assistant 3	Mr. K.H.B. Jayaratna	☒ Appointed	
24	[7]	Project Secretary		☐ Appointed	
25	[6A]	Administrative Assistant		☐ Appointed	
26	[6B]	Management Assistant 1	Ms. W.M.E.H. Wijekoon	☒ Appointed	
27	[6C]	Management Assistant 2	Ms. S.F. Sasna	☒ Appointed	
28	[6D]	Management Assistant 3	Mr. W.V.K.H. Weligalla	☒ Appointed	
29	[6E]	Management Assistant 4	Mr. M.H.M. Asraf	☒ Appointed	
30	[6F]	Management Assistant 5	Mr. P.G.S.U. Jayathilaka	☒ Appointed	
31	[6G]	Office Aide 1	Mr. R.M.S.K. Gunathilake	☒ Appointed	
32	[6H]	Office Aide 2	Mr. S.M. Fayaz	☒ Appointed	
33	[6I]	Office Aide 3	Mr. W.P.N. Senevirathna	☒ Appointed	
34	[6J]	Driver 1	Mr. E.R.L.A. Atampawala	☒ Appointed	
35	[6K]	Driver 2	Mr. E.M.A.B. Senevirathna	☒ Appointed	

Table 7: Staffing Assignment and Recruitment Plan - Southern Province

Sr. No.		Position	Name	Existing	New Recruit [Timeframe]
1	[1]	Acting Project Director (Southern Province)	Mr. S.R. Pathirana	☒ Appointed (Acting)	
2	[2]	Deputy Project Director		☐ Appointed	
3	[2A]	Project Engineer 1	Mr. P.C. Ranasinghe	☒ Appointed	
4	[2B]	Project Engineer 2	Mr. H.S.U. Jayarathna	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. R.P. Tharanga	☒ Appointed	
6	[2D]	Project Engineer 4	Ms. K. Wickramasooriya	☒ Appointed	
7	[2E]	Project Engineer 5	Mr. D. Paravithana	☒ Appointed	
8	[2F]	Project Engineer 6		☐ Appointed	
9	[2G]	Project Engineer 7	Mr. K.R. Wanniarachchi	☒ Appointed	
10	[2H]	Project Engineer 8		☐ Appointed	
11	[2I]	Project Engineer 9		☐ Appointed	
12	[2J]	Safeguard Officer 1	Ms. M.L.A. Navoda	☒ Appointed	
13	[2K]	Safeguard Officer 2	Ms. U.P.M de Silva	☒ Appointed	
14	[2L]	Safeguard Officer 3		☐ Appointed	
15	[4A]	Environment Officer		☐ Appointed	
16	[4B]	Social Officer	Ms. F.K.R. Dilini	☒ Appointed	
17	[5A]	Asset Management Officer		☐ Appointed	
18	[6]	Project Accountant		☐ Appointed	
19	[6A]	Assistant Accountant 1/ Accounts Assistant	Mr. K.B. Kapuge	☒ Appointed	
20	[6B]	Assistant Accountant 2/ Accounts Assistant		☐ Appointed	
21	[6C]	Management Assistant 1	Ms. A.N. Gamage	☒ Appointed	
22	[6D]	Management Assistant 2	Ms. R.A. Anulawathi	☒ Appointed	
23	[6E]	Management Assistant 3	Ms. T.D. Jayawickrama	☒ Appointed	
24	[7]	Project Secretary		☐ Appointed	
25	[7A]	Administrative Assistant	Mr. P.M.H. Kandambi	☒ Appointed	
26	[7B]	Management Assistant 1	Ms. R.J.P. Fernando	☒ Appointed	
27	[7C]	Management Assistant 2	Mr. C. Lakmal	☒ Appointed	
28	[7D]	Management Assistant 3	Mr. D. B. Nawaratna	☒ Appointed	
29	[7E]	Management Assistant 4	Mr. M.F.M. Raslan	☒ Appointed	
30	[7F]	Management Assistant 5	Ms. M.W.R. Nandini	☒ Appointed	
31	[7G]	Office Aide 1	Ms. I.U.W. Ratnayaka	☒ Appointed	
32	[7H]	Office Aide 2	Mr. R.P.D.D. Hemachandra	☒ Appointed	
33	[7I]	Office Aide 3	Mr. P.D.G. Dharmawansa	☒ Appointed	
34	[7J]	Driver 1	Mr. W.D.T. Priyankara	☒ Appointed	
35	[7K]	Driver 2		☐ Appointed	

Table 8: Staffing Assignment and Recruitment Plan - Western Province

Sr. No.		Position	Name	Existing	New Recruit (Timeframe)
1	[1]	Project Director (PC/WP)	Ms. Jennifer Weerakoon	☒ Appointed	
2	[2]	Deputy Project Director	Mr. R.A.D.S.K. Ranatunga	☒ Appointed	
3	[2A]	Project Engineer 1	Mr. M.G.K. Wijesinghe	☒ Appointed	
4	[2B]	Project Engineer 2	Mr. P.M. Sirithunga	☒ Appointed	
5	[2C]	Project Engineer 3	Mr. P.W. Prasanga	☒ Appointed	
6	[2J]	Safeguard Officer 1	Ms. M.D.T. Peshila	☒ Appointed	
7	[8]	Team Leader		☐ Appointed	
8	[8B]	Senior Engineer 1	Mr. E.M.A. Gunathilaka	☒ Appointed	
9	[8C]	Senior Engineer 2		☐ Appointed	
10	[8C]	Engineer 1	Mr. H.M.C.T.B. Herath	☒ Appointed	
11	[8D]	Engineer 2	Mr. R.W.U. Nuwansiri	☒ Appointed	
12	[8E]	Engineer 3	Mr. S.A.S.B. Samarasinghe	☒ Appointed	
13	[4A]	Environment Officer		☐ Appointed	
14	[6]	Project Accountant 1	Ms. G.D.L.C. Amarasena	☒ Appointed	
15	[6A]	Project Accountant 2	Mr. A.G.K. Somaratna	☒ Appointed	
16	[6A]	Assistant Accountant 1	Mr. D.U.S.L. Samaraweera	☒ Appointed	
17	[6B]	Assistant Accountant 2	Mr. W.A.D. Shelton	☒ Appointed	
18	[6C]	Assistant Accountant 3	Mr. P.A.D. Silva	☒ Appointed	
19	[6D]	Management Assistant 1	Ms. S.L.M.D.G. Madushika	☒ Appointed	
20	[6E]	Management Assistant 2	Ms. T.D. Jayawickrama	☒ Appointed	
21	[6F]	Management Assistant 3	Mr. W.S.A. Priyankara	☒ Appointed	
22	[6G]	Management Assistant 4	Ms. A.C. Priyadarshani	☒ Appointed	
23	[6H]	Management Assistant 5	Mr. M.T.M. Shakeer	☒ Appointed	
24	[6I]	Management Assistant 6	Ms. G.A.D.B.M. Wijesekara	☒ Appointed	
25	[7]	Administrative Assistant	Ms. J.D.S.K.P.de Silva	☒ Appointed	
26	[7A]	Management Assistant 1	Ms. K.S.U.P. Wickramaratne	☒ Appointed	
27	[7B]	Management Assistant 2	Ms. S.A.D.C. Rasanjali	☒ Appointed	
28	[7C]	Management Assistant 3	Ms. J.N.U. Nanayakkara	☒ Appointed	
29	[7D]	Management Assistant 4	Mr.Y.K.D.G. Nisakara	☒ Appointed	
30	[7E]	Management Assistant 5	Ms. P.A.D.S. De Silva	☒ Appointed	
31	[7F]	Office Aide 1	Mr. B.A.M.L. Rathnasiri	☒ Appointed	
32	[7G]	Office Aide 2	Mr. K.M.P. Manjula	☒ Appointed	
33	[7H]	Office Aide 3	Mr. K.K.I.A. Ranaweera	☒ Appointed	
34	[7I]	Driver 1	Mr. W.A.K.C. Wijesinghe	☒ Appointed	
35	[7J]	Driver 2	Mr. H.A. Susantha	☒ Appointed	

IV. COSTS AND FINANCING

A. Cost Estimates by Expenditure Category

11. The investment program is estimated to cost \$906 million, including taxes and duties, physical and price contingencies, interest, and other charges during implementation.

Table 9: Investment Program Summary of Cost Estimates
(\$ million)

Item	Amount ^a
A. Base Cost^b	
1. Civil works	744.26
2. Consulting services	37.94
3. Recurrent costs (project management)	15.00
Subtotal (A)	797.20
B. Contingencies^c	91.68
C. Financing Charges during Implementation^d	17.12
Total (A+B+C)	906.00

^a Includes taxes and duties of \$87.03 million to be financed from government resources.

^b In mid-2015 prices.

^c Physical contingencies computed at 10% for civil works, and 10% for consulting services. Price contingencies include provision for potential exchange rate fluctuation under the assumption of a purchasing power parity exchange rate.

^d Includes interest and commitment charges. Interest during construction for ADB loan(s) has been computed at the 5-year forward London interbank offered rate (LIBOR) plus a spread of 0.5% for the ordinary capital resources loan, and at 2.0% per annum for the loan from ADB's Special Funds resources. Commitment charges for the ordinary capital resources loan(s) are 0.15% per year to be charged on the undisbursed loan amount.

Source: Asian Development Bank.

12. The Government of Sri Lanka requested a multitranche financing facility (MFF) of \$800 million from ADB's ordinary capital resources and Special Funds resources to help finance civil works, consulting services, and project management costs of the investment program. The government will provide counterpart financing of \$106 million for feasibility study and engineering, taxes and duties, and part of the contingency. The taxes and duties will be funded either by way of exemption or through payment. The government confirmed the approach during the inception mission on 16–20 March 2015.

13. The financing plan and an indicative tranche schedule are in Table 10. The MFF will finance slices of long-term contract packages under the investment program, so that the appraisal and procurement of works under the program are frontloaded to the first 2–3 years of implementation. The tranching schedule is based on the disbursement projection, which will minimize financing charges and improve the disbursement ratio under the investment program. Each tranche will finance slices of a group of contracts for civil works or consulting services. Each contract is sliced according to the indicative tranching schedule. Yearly disbursement projection for the investment program is in Table 11.

Table 10: Investment Program Financing Plan

Source	Amount (\$ million)	Share of Total (%)	Indicative Tranching Plan and Amount (\$ million)					
			1 (2014)	2 (2014)	3 (2015)	4 (2017)	5 (2018)	6 (2020)
Asian Development Bank	800.00	88.3	100.00	107.00	200.00	150.00	150.00	93.00
Government of Sri Lanka	106.00	11.7	18.00	12.50	23.88	18.00	18.00	15.62
Total	906.00	100.0	118.00	119.50	223.88	168.00	168.00	108.62

Source: Asian Development Bank.

Table 11: Investment Program – Disbursement Projection
(\$ million)

Item	Total	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
A. Investment Costs^a												
1. Civil Works	744.17	0.00	132.50	265.96	161.59	91.94	42.21	25.51	7.53	7.53	7.53	1.88
a. National Road Management	188.16	0.00	18.82	0.00	56.45	75.26	24.46	7.53	7.53	7.53	7.53	1.88
Southern Province	47.04		18.82		18.82	18.82	1.88	1.88	1.88	1.88	1.88	
Western Province (Kalutara District)	0.00											
Sabaragamuwa Province	47.04				18.82	18.82	1.88	1.88	1.88	1.88	1.88	
Central Province	47.04				18.82	18.82	1.88	1.88	1.88	1.88	1.88	
Northern Central Province	47.04				18.82	18.82	1.88	1.88	1.88	1.88	1.88	1.88
b. Rural Access Road Improvement	556.01	0.00	132.50	265.96	105.15	16.68	17.75	17.98	0.00	0.00	0.00	0.00
Southern Province	106.51		42.60	53.26	3.20	3.20	4.26					
Western Province (Kalutara District)	48.63		9.73	24.32	9.73	1.46	1.46	1.95				
Sabaragamuwa Province	88.18		17.64	44.09	17.64	2.65	2.65	3.53				
Central Province	120.50		24.10	48.20	36.15	3.62	3.62	4.82				
Northern Central Province	82.50		16.50	41.25	16.50	2.48	2.48	3.30				
Northern Western Province	109.69		21.94	54.85	21.94	3.29	3.29	4.39				
2. Consultants	40.48	5.05	9.95	10.15	7.20	1.92	1.92	1.92	0.59	0.59	0.59	0.59
a. Project Implementation Consultant	29.52		8.86	8.86	5.90	1.18	1.18	1.18	0.59	0.59	0.59	0.59
b. Survey and Implementation Consultant	6.00	4.80	0.60	0.30	0.30							
c. Individual Consultant	4.96	0.25	0.50	0.99	0.99	0.74	0.74	0.74				
Subtotal (A)	784.65	5.05	142.46	276.10	168.79	93.87	44.13	27.43	8.12	8.12	8.12	2.47
B. Recurrent Costs^b												
1. Project Management	15.00	1.80	2.10	2.10	2.10	1.80	1.80	1.80	0.45	0.45	0.30	0.30
Subtotal (B)	15.00	1.80	2.10	2.10	2.10	1.80	1.80	1.80	0.45	0.45	0.30	0.30
C. Contingencies												
1. Physical Contingency ^c	77.27				15.45	15.45	15.45	15.45				
2. Price Contingency ^d	11.96					1.79	1.79	2.39	2.99	2.99		
Subtotal (C)	89.23	0.00	0.00	0.00	15.45	17.25	17.25	17.85	18.44	2.99	0.00	0.00
D. Financing Charges During Implementation												
1. Interest During Implementation ^e	16.85		1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69	1.69
2. Commitment Charges ^f	0.27							0.05	0.05	0.05	0.05	0.05
Subtotal (D)	17.12	0.00	1.69	1.69	1.69	1.69	1.69	1.74	1.74	1.74	1.74	1.74
Total Project Cost (A+B+C+D)	906.00	6.85	143.24	279.89	188.03	114.60	64.86	48.82	28.76	13.30	10.16	4.52
ADB OCR	525.39	0.00	85.36	168.66	113.55	78.67	34.06	18.70	7.86	7.86	7.86	2.82
ADB ADF	276.40	2.00	44.33	80.58	53.53	23.41	23.61	24.62	17.49	4.06	1.38	1.38
ADB Total	800.00	2.00	129.69	249.24	167.09	102.08	57.67	43.32	25.34	11.92	9.24	4.20
Government	104.20	4.85	16.55	30.64	20.94	12.52	7.19	5.50	3.41	1.38	0.92	0.31
Cumulative Disbursement Projection		6.85	153.09	432.98	621.01	735.61	800.47	849.29	878.04	891.33	901.49	906.00
Cumulative ADB Projection		2.00	131.69	380.94	548.03	650.10	707.78	751.10	776.44	788.36	797.60	800.00
ADB Commitment		207.00	407.00	407.00	557.00	707.00	707.00	800.00	800.00	800.00	800.00	800.00
ADB Financing Balance		205.00	275.31	26.06	8.97	56.90	-0.78	48.90	23.56	11.64	2.40	0.00
Disb. Ratio		0.01	0.32	0.94	0.98	0.92	1.00	0.94	0.97	0.99	1.00	1.00

ADB = Asian Development Bank, ADF = Asian Development Fund, OCR = ordinary capital resources.

^a In 2014 prices based on detailed design; inclusive of local taxes and duties computed at 12.0% for civil works contract values, consulting services, and equipment, and 25% for foreign consultant remuneration.

^b Incremental administrative expenditures, including bank charges related to advance funds.

^c Computed at 10% for civil works.

^d Computed at about 2% for foreign currency costs, and 6%–7% for local currency costs.

^e Capitalized during implementation period, consisting of OCR at ADB's London interbank rate (LIBOR) plus effective contractual spread of 0.5% per annum, and ADF at 2.0% per annum.

^f Capitalized at 15 basis points on flat amounts of undisbursed loan balances (OCR portion only).

Source: Asian Development Bank estimates.

B. Allocation and Withdrawal of Loan Proceeds in Tranche 1

14. The following table should be read in conjunction with Schedule 2: Allocation and Withdrawal of Loan Proceeds of the loan agreements.

Table 12: Allocation and Withdrawal of Loan Proceeds (OCR) – Tranche 1

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works	\$85,000,000	100% of total expenditure claimed*
2	Consulting Services	\$8,000,000	100% of total expenditure claimed*
3	Project Management	\$3,150,000	100% of total expenditure claimed*
4	Interest Charge	\$3,850,000	100% of amount due
	Total	\$100,000,000	

ADB = Asian Development Bank, OCR = ordinary capital resources.

* Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

15. The first tranche finances the first slice of Project 1: Southern Province Integrated Road Project. Contingency is not included in the allocation of loan proceeds. It is expected that the following tranche(s) will finance the contingency, as required. Any incidental expenditures relating to bank charges, local transport, freight, and insurance are eligible for ADB financing. The detailed cost estimates for Project 1 and the financing plan of tranche 1 are shown in Table 13.

Table 13: Cost Estimates of Project 1 and Financing Plan of Tranche 1
(\$ million)

Item	Project 1		Tranche 1		
	Total	Total	% of Project 1	ADB (%)	Government (%)
A. Investment Costs^a					
1. Civil Works	15.44	95.20	62.0	89.3	10.7
2. Consultants	37.94	18.80	41.6	50.6	49.4
Subtotal (A)	191.38	111.00	58.0	83.8	16.2
B. Recurrent Costs^b					
1. Project Management	3.15	3.15	100.0	100.0	
Subtotal (B)	3.15	3.15	100.0	100.0	
C. Contingencies					
1. Physical Contingency ^c	19.45	0.00	0.0		
2. Price Contingency ^d	15.17	0.00	0.0		
Subtotal (C)	34.62	0.00	0.0		
D. Financing Charges During Implementation					
1. Interest During Implementation ^e	5.40	3.85	71.3	100.0	0.0
2. Commitment Charges ^f	0.45	0.00	0.0		
Subtotal (D)	5.85	3.85	65.8	100.0	0.0
Total Project Cost (A+B+C+D)	235.00	118.00	50.2	84.7	15.3

Notes:

^a In 2014 prices based on detailed design; inclusive of local taxes and duties computed at 12.0% for civil works contract values, consulting services, and equipment, and 25% for foreign consultant remuneration.

^b Incremental administrative expenditures, including bank charges, local transport and insurance.

^c Computed at 10% for civil works.

^d Computed at about 2% for foreign currency costs, and 6-7% for local currency costs.

^e Capitalized during implementation period, consisting of interest of ADF loan at 2.0% per annum.
Source: Asian Development Bank estimates.

C. Allocation and Withdrawal of Loan Proceeds in Tranche 2

16. The following table should be read in conjunction with Schedule 2: Allocation and Withdrawal of Loan Proceeds of the loan agreements.

Table 14: Allocation and Withdrawal of Loan Proceeds (OCR) – Tranche 2

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works*	\$95,740,000	100% of total expenditure claimed**
2	Financing Charge	\$2,260,000	100% of amount due
	Total	\$98,000,000	

ADB = Asian Development Bank, OCR = ordinary capital resources.

* Subject to the disbursement condition indicated in the OCR loan agreement Schedule 2, para 7.

** Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

Table 15: Allocation and Withdrawal of Loan Proceeds (ADF) – Tranche 2

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works	\$8,420,000	100% of total expenditure claimed*
2	Interest Charge	\$580,000	100% of amount due
	Total	\$9,000,000	

ADB = Asian Development Bank, ADF = Asian Development Fund.

* Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

17. The second tranche financed the first slice of Projects 2, 3, 4, and 5. These are (i) Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province, (ii) Project 3 in Central Province, (iii) Project 4 in North Central Province, and (iv) Project 5 in North Western Province. Contingency is not included in the allocation of loan proceeds and is expected that the following tranche(s) will finance the contingency, as required. Any incidental expenditures relating to bank charges, local transport, freight, and insurance are eligible for ADB financing. No withdrawals shall be made from ADB's ordinary capital resources until all the ADB's Special Funds resources have been exhausted. The detailed cost estimates for Projects 2, 3, 4, and 5, and the financing plan of tranche 2 are shown in Table 16.

Table 16: Cost Estimates of Projects 2, 3, 4, and 5 and Financing Plan of Tranche 2
(\$ million)

Item	Project 2	Project 3	Project 4	Project 5	Total Projects 2-5	Tranche 2									
						Tranche 2	% of Total	ADB (OCR)	% of Category	ADB (ADF) ^f	% of Category	ADB Total	ADB (%)	Government Total	Government (%)
A. Investment Costs^a															
1. Civil Works	144.75	125.90	81.70	139.79	492.14	116.66	23.7	95.71	82.1	8.42	7.2	104.16	89.3	12.50	10.7
2. Consultants															
Subtotal (A)	144.75	125.90	81.70	139.79	492.14	116.66	23.7	95.74	82.1	8.42	7.2	104.16	89.3	12.50	10.7
B. Recurrent Costs^b															
1. Project Management	3.00	3.00	2.85	3.00	11.85										
Subtotal (B)	3.00	3.00	2.85	3.00	11.85										
C. Contingencies															
1. Physical Contingency ^c	14.77	12.89	8.46	14.28	50.40										
2. Price Contingency ^d	11.08	9.67	6.34	10.71	37.80										
Subtotal (C)	25.85	22.56	14.80	24.99	88.20										
D. Financing Charges During Implementation															
1. Interest During Implementation ^e	2.95	3.95	2.75	3.85	13.50	2.80	20.7	2.26	80.7	0.54	19.3	2.80	100.0		0.0
2. Commitment Charges ^f	0.05	0.00	0.00	0.00	0.05	0.05	100.0			0.04		0.04			
Subtotal (D)	3.00	3.95	2.75	3.85	13.55	2.84	21.0	2.26	79.6	0.58	20.4	2.84	100.0		0.0
Total Project Cost (A+B+C+D)	176.60	155.41	102.10	171.62	605.74	119.50	19.7	98.00	82.0	9.00	7.5	107.00	89.5	12.50	10.5

Notes:

^a In 2014 prices based on detailed design; inclusive of local taxes and duties computed at 12.0% for civil works contract values, consulting services, and equipment, and 25% for foreign consultant remuneration.

^b Incremental administrative expenditures, including bank charges, local transport and insurance.

^c Computed at 10% for civil works.

^d Computed at about 2% for foreign currency costs, and 6-7% for local currency costs.

^e Capitalized during implementation period, consisting of interest of ADF loan at 2.0% per annum.

^f ADF loan will be frontloaded. No withdrawals shall be made from ADB's ordinary capital resources until all the ADB's Special Funds resources have been exhausted.

ADB = Asian Development Bank, ADF = Asian Development Fund, OCR = ordinary capital resources.

Source: Asian Development Bank estimates.

D. Allocation and Withdrawal of Loan Proceeds in Tranche 3

18. The following table should be read in conjunction with Schedule 2: Allocation and Withdrawal of Loan Proceeds of the loan agreements.

Table 17: Allocation and Withdrawal of Loan Proceeds (OCR) – Tranche 3

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works*	\$155,900,000	100% of total expenditure claimed**
2	Consulting Services	\$10,000,000	100% of total expenditure claimed**
3	Project Management	\$6,000,000	100% of total expenditure claimed**
4	Financing Charge	\$3,100,000	100% of amount due
	Total	\$175,000,000	

ADB = Asian Development Bank, OCR = ordinary capital resources.

* Subject to the disbursement condition indicated in the OCR loan agreement Schedule 2, para 7.

** Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

Table 18: Allocation and Withdrawal of Loan Proceeds (ADF) – Tranche 3

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works	\$23,900,000	100% of total expenditure claimed*
2	Interest Charge	\$1,100,000	100% of amount due
	Total	\$25,000,000	

ADB = Asian Development Bank, ADF = Asian Development Fund.

* Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

19. Tranche 3 will finance the second slice of five projects that were appraised under tranches 1 and 2: (i) Project 1 in Southern Province, (ii) Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province; (iii) Project 3 in Central Province; (iv) Project 4 in North Central Province; and (v) Project 5 in North Western Province. The contingency is not included in the allocation of loan proceeds. It is expected that the following tranche(s) will finance the contingency, as required. Any incidental expenditures relating to bank charges, local transport, freight, and insurance are eligible for ADB financing. No withdrawals shall be made from ADB's ordinary capital resources until all the ADB's Special Funds resources have been exhausted.² The detailed cost estimates for Projects 1, 2, 3, 4, and 5, and the financing plan of tranche 3 are shown in Table 11.

² As requested by the government.

Table 19: Cost Estimates of Projects 1, 2, 3, 4, and 5 and Financing Plan of Tranche 3
(\$ million)

Item	Project 1	Project 2	Project 3	Project 4	Project 5	Total	Tranche 1		Tranche 2		Tranche 3 ^a									
							Amount	% of Total	Amount	% of Total	Tranche 3	% of Total	ADB (OCR)	Category (%)	ADB (ADF)	Category (%)	ADB Total	Government Total	ADB (%)	Government (%)
A. Investment Costs ^b																				
1. Civil Works	153.55	172.74	155.22	118.34	144.41	744.26	95.20	12.8	116.66	15.7	201.38	27.1	155.90	77.4	23.90	11.9	179.80	21.58	89.3	10.7
2. Consultants	37.94					37.94	15.80	41.6	0.00	0.0	12.30	32.4	10.00	81.3			10.00	2.30	81.3	18.7
Subtotal (A)	191.49	172.74	155.22	118.34	144.41	782.20	111.00	14.2	116.66	14.9	213.68	27.3	165.90	77.6	23.90	11.2	189.80	23.88	88.8	11.2
B. Recurrent Costs ^c																				
1. Project Management	3.15	3.00	3.00	2.85	3.00	15.00	3.15	21.0	0.00	0.0	6.00	40.0	6.00	100.0			6.00	0.00	100.0	0.0
Subtotal (B)	3.15	3.00	3.00	2.85	3.00	15.00	3.15	21.0	0.00	0.0	6.00	40.0	6.00	100.0			6.00	0.00	100.0	0.0
C. Contingencies																				
1. Physical Contingency ^d	19.46	17.57	15.82	12.12	14.74	79.72	0.00	0.0	0.00	0.0										
2. Price Contingency ^e	2.92	2.64	2.37	1.82	2.21	11.96	0.00	0.0	0.00	0.0										
Subtotal (C)	22.38	20.21	18.20	13.94	16.95	91.68	0.00	0.0	0.00	0.0										
D. Financing Charges During Implementation																				
1. Interest During Implementation ^f	3.95	3.05	3.55	2.95	3.35	16.85	3.85	22.8	2.80	16.6	4.12	24.5	3.02	73.3	1.10	26.7	4.12	0.00	100.0	0.0
2. Commitment Charges	0.06	0.06	0.05	0.05	0.05	0.27	0.00	0.0	0.04	14.8	0.08	29.6	0.08	100.0			0.08	0.00	100.0	0.0
Subtotal (D)	4.01	3.11	3.60	3.00	3.40	17.12	3.85	22.5	2.84	16.6	4.20	24.5	3.10	73.8	1.10	26.2	4.20	0.00	100.0	0.0
Total Project Cost (A+B+C+D)	221.03	199.06	180.02	138.13	167.76	906.00	118.00	13.0	119.50	13.2	223.88	24.7	175.00	78.2	25.00	11.2	200.00	23.88	89.3	10.7

Notes:

^a ADF loan will be frontloaded. No withdrawals shall be made from ADB's ordinary capital resources until all the ADB's Special Funds resources have been exhausted.

^b In 2015 prices based on detailed design; inclusive of local taxes and duties computed at 12.0% for civil works contract values, consulting services, and equipment, and 25% for foreign consultant remuneration.

^c Incremental administrative expenditures, including bank charges, local transport and insurance.

^d Computed at 10% for civil works.

^e Computed at about 2% for foreign currency costs, and 6-7% for local currency costs.

^f Capitalized during implementation period, consisting of interest of ADF loan at 2.0% per annum.

ADB = Asian Development Bank, ADF = Asian Development Fund, OCR = ordinary capital resources.

Source: Asian Development Bank estimates.

E. Allocation and Withdrawal of Loan Proceeds in Tranche 4

20. The following table should be read in conjunction with Schedule 2: Allocation and Withdrawal of Loan Proceeds of the loan agreements.

Table 20: Allocation and Withdrawal of Loan Proceeds (Regular Loan) – Tranche 4

Number	Item	Total Amount Allocated for ADB Financing Category	Basis for Withdrawal from the Loan Account
1	Works	\$131,480,000	100% of total expenditure claimed*
2	Consulting Services	\$10,000,000	100% of total expenditure claimed*
3	Project Management	\$5,850,000	100% of total expenditure claimed*
4	Financing Charge	\$2,670,000	100% of amount due
	Total	\$150,000,000	

ADB = Asian Development Bank.

* Exclusive of taxes and duties imposed within the territory of the borrower.

Source: Asian Development Bank estimates.

21. Tranche 4 will finance the third slice of five projects that were appraised under tranches 1 and 2: (i) Project 1 in Southern Province, (ii) Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province, (iii) Project 3 in Central Province, (iv) Project 4 in North Central Province, and (v) Project 5 in North Western Province. The contingency is not included in the allocation of loan proceeds. It is expected that the following tranche(s) will finance the contingency, as required. Any incidental expenditures relating to bank charges, local transport, freight, and insurance are eligible for ADB financing. The detailed cost estimates for Projects 1, 2, 3, 4, and 5, and the financing plan of tranche 4 are shown in Table 21.

Table 21: Cost Estimates of Projects 1, 2, 3, 4, and 5 and Financing Plan of Tranche 4
(\$ million)

Item	Project 1	Project 2	Project 3	Project 4	Project 5	Total	Tranche 1		Tranche 2		Tranche 3		Tranche 4							
							Amount	% of Total	Amount	% of Total	Amount	% of Total	Tranche 4	% of Total	ADB Regular Loan	% of the Category	ADB Total	Government Total	ADB Regular Loan (%)	Government (%)
A. Investment Costs^a																				
1. Civil Works	153.55	172.74	155.22	118.34	144.41	744.26	95.20	12.79	116.66	15.67	201.38	27.06	131.48	17.67	131.48	100.00	131.48	15.70	100.00	11.94
2. Consultants	37.94					37.94	15.00	39.54	0.00	0.00	12.30	32.42	10.00	26.36	10.00	100.00	10.00	2.30	100.00	23.00
Subtotal (A)	191.49	172.74	155.22	118.34	144.41	782.20	110.20	14.09	116.66	14.91	213.68	27.32	159.48	20.39	141.48	88.71	141.48	18.00	88.71	11.29
B. Recurrent Costs^b																				
1. Project Management	3.15	3.00	3.00	2.85	3.00	15.00	3.15	21.00	0.00	0.00	6.00	40.00	5.85	39.00	5.85	100.00	5.85	0.00	100.00	0.00
Subtotal (B)	3.15	3.00	3.00	2.85	3.00	15.00	3.15	21.00	0.00	0.00	6.00	40.00	5.85	39.00	5.85	100.00	5.85	0.00	100.00	0.00
C. Contingencies																				
1. Physical Contingency ^c	19.46	17.57	15.82	12.12	14.74	79.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
2. Price Contingency ^d	2.92	2.64	2.37	1.82	2.21	11.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
Subtotal (C)	22.38	20.21	18.19	13.94	16.95	91.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
D. Financing Charges During Implementation																				
1. Interest During Implementation ^e	3.95	3.05	3.55	2.95	3.35	16.85	3.50	20.77	2.80	16.62	4.12	24.45	2.59	15.37	2.59	100.00	2.59	0.00	100.00	0.00
2. Commitment Charges ^f	0.06	0.06	0.05	0.05	0.05	0.27	0.00	0.00	0.04	14.81	0.08	29.63	0.08	29.63	0.08	100.00	0.08	0.00	100.00	0.00
Subtotal (D)	4.01	3.11	3.60	3.00	3.40	17.12	3.15	18.40	2.84	16.59	4.20	24.53	2.67	15.60	2.67	100.00	2.67	0.00	100.00	0.00
Total Project Cost (A+B+C+D)	221.03	199.06	180.01	138.13	167.76	905.99	116.50	12.86	119.50	13.19	223.88	24.71	168.00	18.54	150.00	89.29	150.00	18.00	89.29	10.71

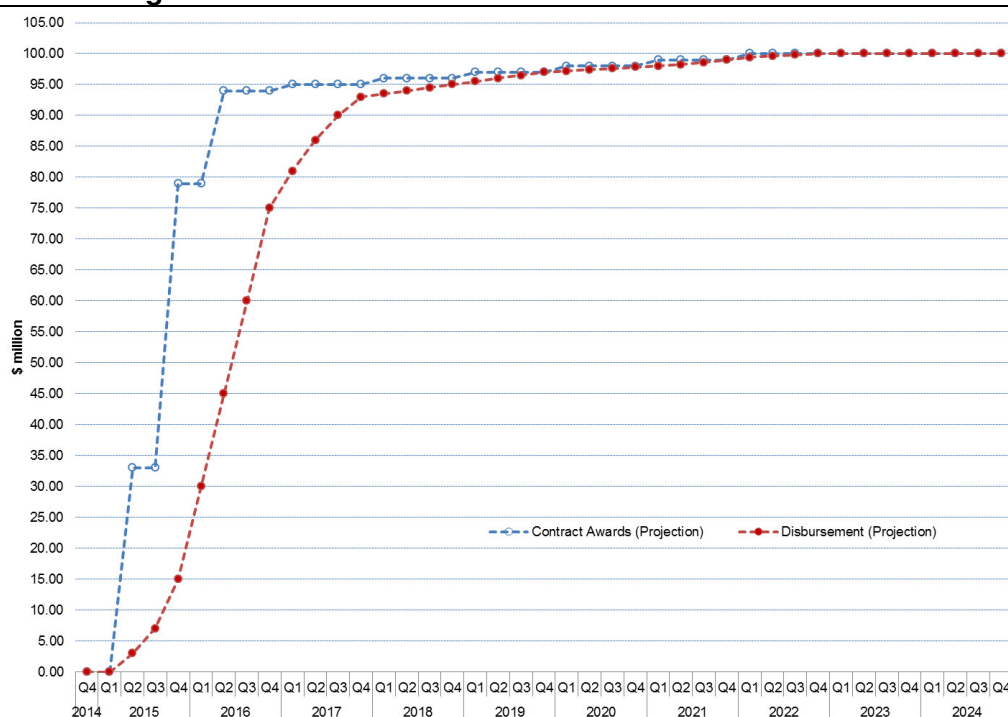
Notes:

- ^a In 2015 prices based on detailed design; inclusive of local taxes and duties computed at 12.0% for civil works contract values, consulting services, and equipment, and 25% for foreign consultant remuneration.
- ^b Incremental administrative expenditures, including bank charges, local transport and insurance.
- ^c Computed at 10% for civil works.
- ^d Computed at about 2% for foreign currency costs, and 6-7% for local currency costs.
- ^e Capitalized during implementation period, consisting of OCR at ADB's London interbank rate (LIBOR) plus Effective Contractual Spread of 0.5% per annum, and ADF at 2.0% per annum.
- ^f Capitalized at 15 basis point on flat amounts of undisbursed loan balances (OCR portion only).
ADB = Asian Development Bank, OCR = ordinary capital resources.

Source: Asian Development Bank estimates.

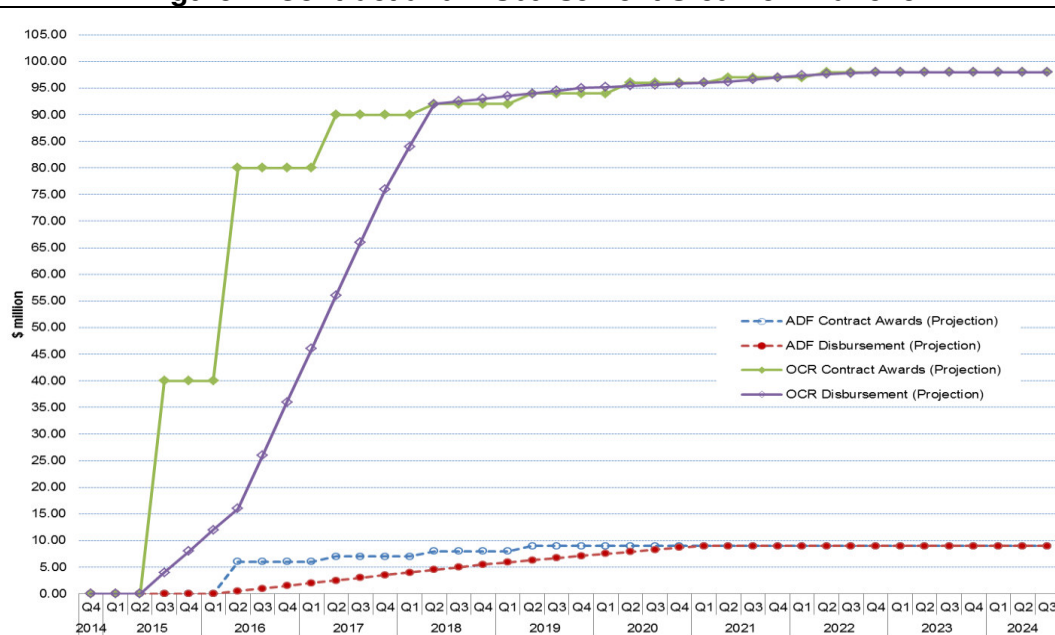
F. Contract and Disbursement S-curve

Figure 3: Contract and Disbursement S-curve - Tranche 1



Source: Asian Development Bank estimates.

Figure 4: Contract and Disbursement S-curve - Tranche 2



Source: Asian Development Bank estimates.

Figure 5: Contract and Disbursement S-curve - Tranche 3

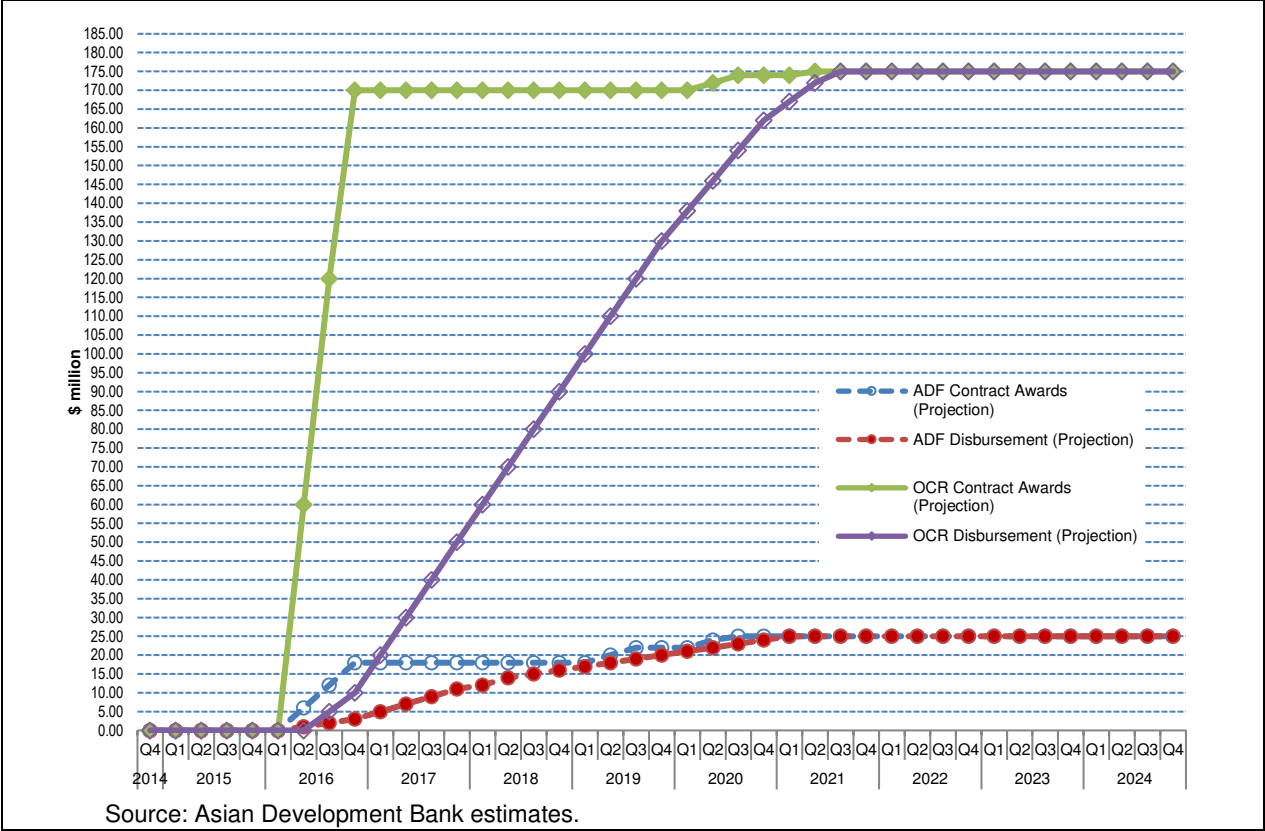
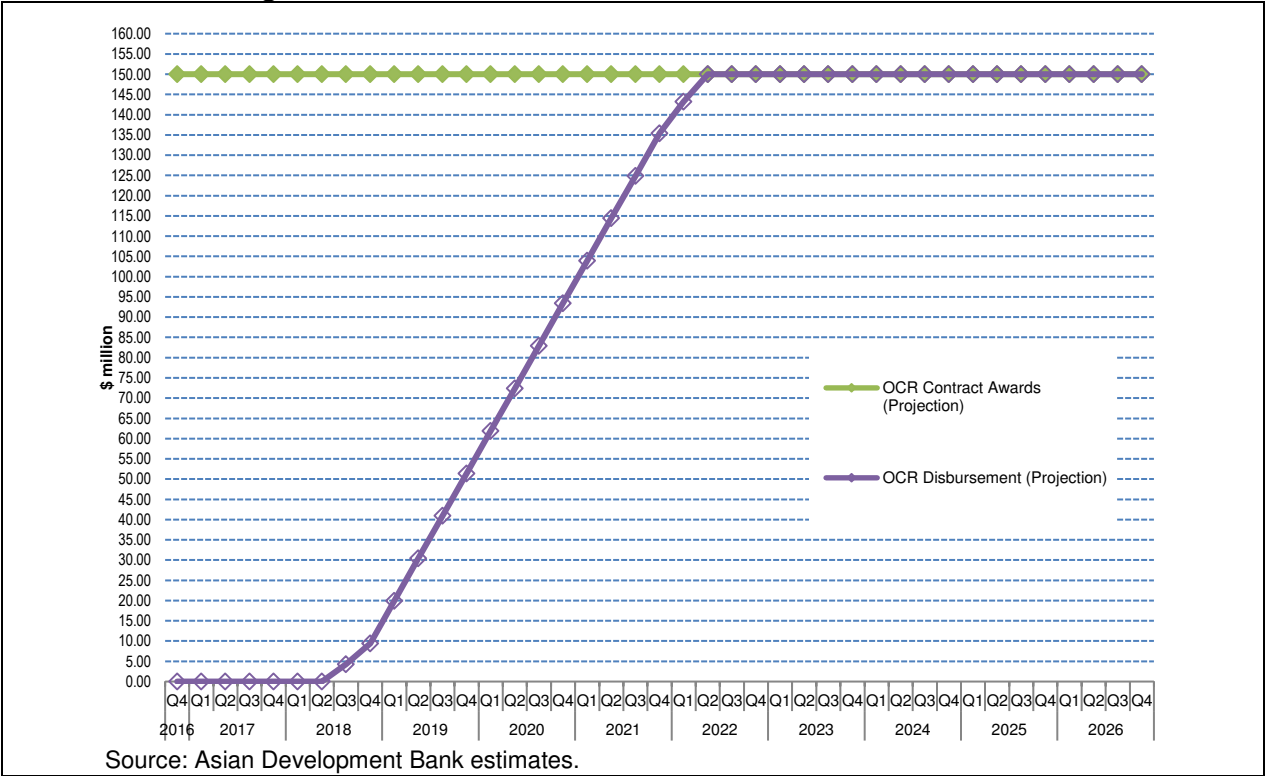
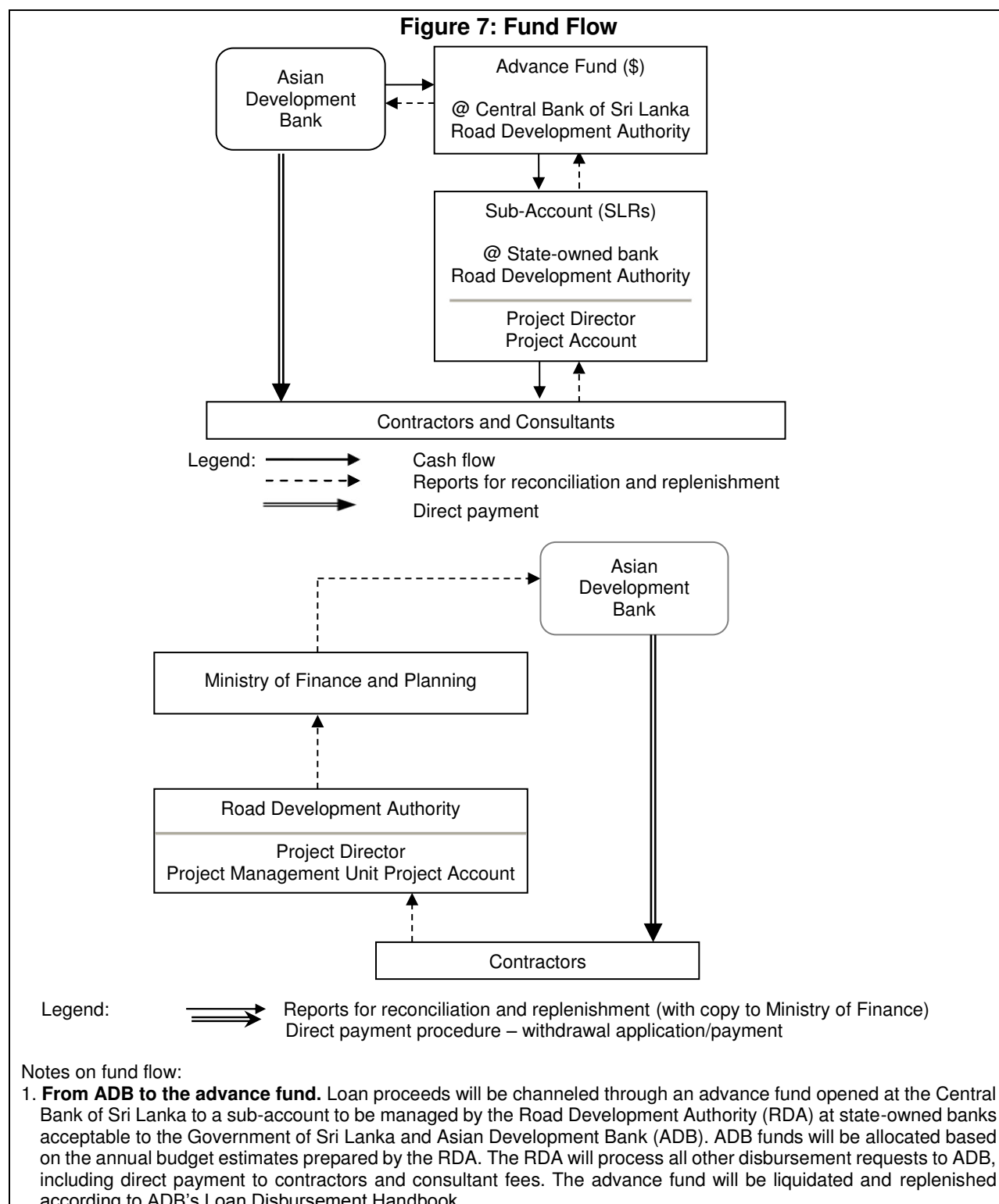


Figure 6: Contract and Disbursement S-curve - Tranche 4



G. Fund Flow Diagram

22. The following diagram shows how the funds will flow from ADB and the borrower to implement project activities.



2. From ADB to contractors and consultants. Dollar-denominated payments above the minimum amount set in ADB's Loan Disbursement Handbook for contractors, contracted by RDA, will be paid directly by ADB, which requires the RDA's submission of approved invoices and documentation to ADB in accordance with ADB's Loan Disbursement Handbook.

SLRs = Sri Lankan rupees.

Source: Asian Development Bank.

V. FINANCIAL MANAGEMENT

A. Financial Management Assessment

23. A financial management assessment (FMA) for the RDA and its PIUs was performed in 2013 for the Southern Road Connectivity Project and has been duly updated in accordance with ADB's Guidelines for the Financial Management and Analysis of Projects (2005) and Financial Due Diligence: A Methodology Note (2009). The capacity of the RDA has been evaluated with focus on fund flows, staffing, accounting policies and procedures, internal controls, financial reporting and monitoring, and internal and external audits in relation to administering the investment program. The RDA's financial management risk is assessed as moderate, and the financial management arrangements are considered adequate.

24. The RDA has comprehensive experience in implementing ADB-funded projects and has satisfactory capacity in terms of project financial accounting and knowledge of ADB procedures. The RDA has a dedicated project accounting and finance team with suitably qualified accountants: a project accountant, an accounts assistant, four accounts clerks, and a computer operator. The RDA will maintain separate project records and accounts to identify the financing resources received and expenditures made for the project, ensuring an adequate audit trail. The RDA operates with the Computer Integrated Government Accounting System for monthly cash reports under statutory reporting. The PIUs under the RDA use a combination of manual and off-the-shelf packages for accounting and recording purposes depending on the size of the projects implemented. The government's Office of the Auditor General annually audits the project financial statements and related accounts in accordance with Sri Lanka Auditing Standards. Audited project financial statements for previous ADB-funded projects implemented by the RDA were of adequate quality, and there are no significant unresolved audit observations.

25. The RDA is functioning primarily with treasury grants but has adequate financial management and internal controls. The financial statements are prepared in accordance with Sri Lanka Accounting Standards. The RDA is governed by financial regulations of the government. RDA's ADB-funded projects are subject to internal audit. The internal audit department has included this investment program in their annual audit program. The Auditor General's report and related project financial statements for tranche 1 for fiscal year (FY) 2014 have been received on 16 September 2015, with an unqualified audit opinion. As for the RDA's own statutory financial statements for FY 2013, the auditor has pointed out that there is a need to improve internal control weakness and timely reflecting of accounting adjustments. Accordingly, the RDA has taken corrective actions to rectify the control weaknesses. Furthermore, control measures are being taken to establish a sound internal control system to ensure good corporate finance mechanisms.

26. Timely availability of counterpart funds has been identified as an issue in previous projects. To mitigate this under this MFF, the government plans to obtain exemptions from tax authorities for the value-added tax and the Construction Industry Guarantee Fund Levy. Civil works contracts shall be financed at 89.3%, thus reducing government counterpart funding. To minimize the risk of implementation delays, ADB's direct payment procedure will be used for

disbursement above the minimum amount set in ADB's Loan Disbursement Handbook for works, goods, and consulting services. Frequent transfer of staff should be minimized for better continuity throughout the implementation period. There is a risk of losing experienced RDA staff as many are nearing their retirement age. Continuous training should be given to new and existing staff to mitigate this issue.

27. Financial management risks should be considered and updated throughout the life of the project.³ Risk mitigation measures should also be updated accordingly.

B. Disbursement

20. The loan proceeds will be disbursed in accordance with ADB's Loan Disbursement Handbook (2017, as amended from time to time), and detailed arrangements agreed upon between the Government of Sri Lanka and ADB.⁴ Online training for project staff on disbursement policies and procedures is available.⁵ Project staff are encouraged to avail of this training to help ensure efficient disbursement and fiduciary control.

28. Direct payment procedure by ADB will be utilized for progress payments above the minimum amount set in ADB's Loan Disbursement Handbook on civil works, consultant's fees, and equipment (vehicle) supplier. Reimbursement and advance fund (liquidation or replenishment) procedures will be utilized for recurrent costs (project management), and for progress payments less than \$100,000 on civil works, consultant's fees, and equipment (vehicle) supplier. One advance fund for tranche 1 in US dollar and one sub-account in local currency are established and maintained by the RDA as summarized in Table 22. Separate advance funds for tranche 3 ADF and OCR in US dollar, and sub-accounts in local currency will be established and maintained by the RDA. No advance fund is required in tranche 2.

Table 22: Funding Source (ADF)

Advance Fund	(1) Account (\$) established at the Central Bank of Sri Lanka in the name of the RDA's project implementation unit
Sub-Account	(1) Account (SLRs) established at the state-owned bank in the name of the RDA's project implementation unit

ADF = Asian Development Fund, RDA = Road Development Authority, SLRs = Sri Lankan rupees.

Source: Asian Development Bank.

29. Separate advance funds will be established, managed, replenished, and liquidated for each funding sources in accordance with ADB's Loan Disbursement Handbook. The total outstanding advance to the advance fund will not at any time exceed the estimated ADB-financed expenditures to be paid through the account for the forthcoming 6-month period. The request for advance to the advance funds should be accompanied by an Estimate of Expenditure Sheet setting out the estimated expenditures for the forthcoming 6 months of project implementation, and submission of evidence satisfactory to ADB that the advance funds have been duly opened.

30. Separate sub-accounts should be established and maintained by the RDA for each funding source. The sub-account is to be used exclusively for ADB's share of eligible expenditures. The borrower should ensure that every liquidation and replenishment of each sub-account are supported by sufficient documentation in accordance with ADB's Loan Disbursement

³ Available at <http://www.adb.org/Documents/Others/FM-toolkit/Methodology-Note.pdf>, and Financial Management. See also Analysis of Projects Guidelines (2005): <http://www.adb.org/Documents/Guidelines/Financial/default.asp>

⁴ Available at <http://www.adb.org/documents/loan-disbursement-handbook>

⁵ Disbursement eLearning. http://wpqr4.adb.org/disbursement_elearning

Handbook. ADB's statement of expenditure (SOE) procedure will be utilized for reimbursement and liquidation and replenishment of the advance fund. Under this facility, no specific ceiling amount per individual payment is set for using the SOE procedure. SOE records should be maintained and made readily available for review by ADB's disbursement and review mission, upon ADB's request for submission of supporting documents on a sampling basis, and for independent audit.

31. Before the submission of the first withdrawal application, the borrower should submit to ADB sufficient evidence of the authority of the person(s) who will sign the withdrawal applications on behalf of the borrower, together with the authenticated specimen signatures of each authorized person. The minimum value per withdrawal application is set in ADB's Loan Disbursement Handbook. Individual payments below this amount should generally be paid from the advance fund/sub-account or by the RDA, and subsequently claimed to ADB through reimbursement, unless otherwise accepted by ADB. ADB reserves the right not to accept withdrawal applications below the minimum amount. The borrower should ensure sufficient category and contract balances before requesting disbursements.

32. The RDA will be responsible for (i) preparing disbursement projections, (ii) requesting budgetary allocations for counterpart funds, (iii) collecting supporting documents, and (iv) preparing and sending withdrawal applications to ADB.

C. Accounting

33. The RDA will maintain, or cause to be maintained, separate books and records by funding source for all expenditures incurred on the project. The RDA will prepare project financial statements in accordance with the Government of Sri Lanka's accounting laws and regulations that are consistent with international accounting principles and practices. Project financial statements shall include, at a minimum, a statement of receipts and payments with accompanying notes and schedules. These shall be prepared to ensure maximum alignment to international accounting standards. Financial statements for individual tranches will be consolidated.

D. Auditing

34. The RDA will cause the detailed project financial statements to be audited, in accordance with International Standards on Auditing and with the government's audit regulations, by an independent auditor acceptable to ADB. The audited project financial statements will be submitted in the English language to ADB within 6 months of the end of the fiscal year by the RDA.

35. The annual audit report for the project financial statements will include audit opinions, which cover (i) whether the project financial statements present a true and fair view or are presented fairly, in all material respects, in accordance with the applicable financial reporting framework; (ii) whether loan proceeds were used only for the purposes of the project or not; (iii) the level of compliance for each financial covenant contained in the legal agreements for the project; (iv) the use of the advance fund procedure; and (v) the eligibility of those expenditures claimed under SOE procedures, and proper use of the SOE and advance fund procedures in accordance with ADB's Loan Disbursement Handbook and the project documents. A management letter shall also be provided.

36. The RDA will also cause the entity-level financial statements to be audited, in accordance with International Standards on Auditing and with the government's audit regulations, by an independent auditor acceptable to ADB. The audited entity-level financial statements, together

with the auditors' report and management letter, will be submitted in the English language to ADB within 1 month after their approval by the competent authority. Compliance with financial reporting and auditing requirements will be monitored by review missions and during normal program supervision, and followed up regularly with all concerned, including the external auditor.

37. The government and the RDA have been made aware of ADB's approach and procedure on delayed submission, and the requirements for satisfactory and acceptable quality of the audited project financial statements.⁶ ADB reserves the right to require a change in the auditor (in a manner consistent with the constitution of the borrower), or for additional support to be provided to the auditor, if the audits required are not conducted in a manner satisfactory to ADB, or if the audits are substantially delayed. ADB reserves the right to verify the project's financial accounts to confirm that the share of ADB's financing is used in accordance with ADB's policies and procedures.

38. Public disclosure of the project financial statements, including the audit report on the project financial statements, will be guided by ADB's Public Communications Policy (2011).⁷ After review, ADB will disclose the project financial statements for the project and the opinion of the auditors on the financial statements within 14 days of the date of their receipt by posting them on ADB's website. The management letter will not be disclosed.

VI. PROCUREMENT AND CONSULTING SERVICES

A. Advance Contracting

39. All advance contracting will be undertaken in conformity with ADB's Procurement Guidelines (2015, as amended from time to time)⁸ and ADB's Guidelines on the Use of Consultants (2013, as amended from time to time).⁹ The issuance of invitations to bid under advance contracting will be subject to ADB approval. The government, MOHEH, and the RDA have been advised that approval of advance contracting does not commit ADB to finance the ensuing project. The framework financing agreement (FFA) also allows, subject to ADB procedures, retroactive financing of the expenditures incurred toward civil works and consulting services eligible under advance contracting, provided that the expenditures are incurred for a period 12 months prior to the signing of the related loan agreement, and do not exceed an amount equivalent to 20% of each individual loan.

40. Advance contracting includes tendering and bid evaluation for all civil works packages, and recruitment of consultants. The detailed advance action schedules and actual dates are

⁶ ADB's approach and procedure on delayed submission of audited project financial statements:

- When audited project financial statements are not received by the due date, ADB will write to the executing agency advising that (i) the audit documents are overdue; and (ii) if they are not received within the next 6 months, requests for new contract awards and disbursement such as new replenishment of advance funds, processing of new reimbursement, and issuance of new commitment letters will not be processed.
- When audited project financial statements have not been received within 6 months after the due date, ADB will withhold processing of requests for new contract awards and disbursement such as new replenishment of advance funds, processing of new reimbursement, and issuance of new commitment letters. ADB will (i) inform the executing agency of ADB's actions, and (ii) advise that the loan may be suspended if the audit documents are not received within the next 6 months.
- When audited project financial statements have not been received within 12 months after the due date, ADB may suspend the loan.

⁷ Available at <http://www.adb.org/documents/pcp-2011?ref=site/disclosure/publications>

⁸ Available at <http://www.adb.org/Documents/Guidelines/Procurement/Guidelines-Procurement.pdf>

⁹ Available at <http://www.adb.org/Documents/Guidelines/Consulting/Guidelines-Consultants.pdf>

presented in Tables 23–24.

Table 23: Detailed Advance Action Schedules and Actual Dates – Tranche 1

Project Implementation Consultant for CRC Packages in Southern Province

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Prepare request for expression of interest		01/07/2014	RDA	Done	19 Jun 2014
2	Advertise in the newspapers/ADBBO	5	06/07/2014	RDA	Done	01 Jul 2014
3	EOI submission	31	06/08/2014	External	Deadline	30 Jul 2014
4	Submission (1) to ADB: Shortlisting/draft request for proposal (RFP)	21	27/08/2014	RDA	Done	06 Oct 2014
5	ADB's review and no-objection	21	17/09/2014	ADB	Approved	21 Nov 2014
6	Issue RFP	4	21/09/2014	RDA	Done	21 Nov 2014
7	Proposal submission	46	06/11/2014	External	Done	05 Jan 2015
8	Submission (2) to ADB: Technical evaluation	21	27/11/2014	RDA	Done	27 Mar 2015 01 Apr 2015
9	ADB's review and no-objection	14	11/12/2014	ADB	Approved	01 Apr 2015
10	Public opening of the financial proposals	3	14/12/2014	RDA	Done	06 Apr 2015
11	Submission (3) to ADB: Financial evaluation/ranking	14	28/12/2014	RDA	Done	10 Apr 2015 16 Apr 2015
12	ADB's review and no-objection	7	04/01/2015	ADB	Approved	17 Apr 2015
13	Invite 1st ranked firm: Negotiate/draft contract	7	11/01/2015	RDA	Done	21 Apr 2015
14	Submission (4) to ADB: Draft negotiated contract	2	13/01/2015	RDA	Done	24 Apr 2015 29 Apr 2015
15	ADB's review and no-objection	7	20/01/2015	ADB	Approved	29 Apr 2015
16	Contract signing and issue notice to proceed	2	22/01/2015	RDA	Done	05 Jun 2015

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, CRC = conventional road contract, EOI = expression of interest, RDA = Road Development Authority, RFP = request for proposal.

Procurement – Civil Works for Southern Province CRC (9 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		01/07/2014	RDA	Done	
2	ADB review	28	29/07/2014	ADB	Approved	29 Jul 2014
3	Finalize revisions as necessary	4	02/08/2014	RDA	N/A	
4	Advertise invitation for bids in newspapers/ADBBO	1	03/08/2014	RDA	Done	01 Aug 2014
5	Preparation of bids	42	14/09/2014	External		
6	Submission of bids/public opening	0	14/09/2014	RDA	Deadline	12 Sep 2014
7	TEC: Evaluate technical bid (Qual/Technical)	14	28/09/2014	RDA	Done	20 Oct 2014
8	Review by procurement committee	7	05/10/2014	RDA	Done	28 Oct 2014
9	ADB review	21	26/10/2014	ADB	Approved	09 Nov 2014
10	Public opening of financial envelope	11	06/11/2014	RDA	Done	10 Nov 2014
11	Evaluate financial bid	9	15/11/2014	RDA	Done	26 Nov 2014

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
12	Bid evaluation report and recommend award	3	18/11/2014	RDA	Done	10 Dec 2014
13	Review by procurement committee	7	25/11/2014	RDA	Done	12 Dec 2014
14	ADB review and no-objection	28	23/12/2014	ADB	Approved	15 Dec 2014
15	Issue notice of award	48	09/02/2015	RDA	Done	31 Mar 2015

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, CRC = conventional road contract, N/A = not applicable, Qual = qualitative, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works for Southern Province RMC (1 Lot)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		15/08/2017	RDA		
2	ADB review	28	12/09/2017	ADB		
3	Finalize revisions as necessary	6	18/09/2017	RDA		
4	Advertise invitation for bids in newspapers/ADBBO	1	19/09/2017	RDA		
5	Preparation of bids	90	18/12/2017	External		
6	Submission of bids/public opening	0	18/12/2017	RDA		
7	TEC: Evaluate technical bid (Qual/Technical)	21	08/01/2018	RDA		
8	Review by procurement committee	7	15/01/2018	RDA		
9	ADB review	21	05/02/2018	ADB		
10	Public opening of financial envelope	7	12/02/2018	RDA		
11	Evaluate financial bid	7	19/02/2018	RDA		
12	Bid evaluation report and recommend award	7	26/02/2018	RDA		
13	Review by procurement committee	7	05/03/2018	RDA		
14	ADB review and no-objection	21	26/03/2018	ADB		
15	Issue notice of award	35	30/04/2018	RDA		

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, Qual = qualitative, RDA = Road Development Authority, RMC = road management contract, TEC = technical evaluation committee.

Table 24: Detailed Advance Action Schedules and Actual Dates – Tranche 2

Procurement – Civil Works for Sabaragamuwa Province Rural Roads (6 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		26/08/2014	RDA	Done	
2	ADB review	15	10/09/2014	ADB	Approved	28 Aug 2014
3	Finalize revisions as necessary	4	14/09/2014	RDA	-	
4	Advertise invitation for bids in newspapers/ADBBO	1	15/09/2014	RDA	Done	15 Sep 2014
5	Preparation of bids	42	27/10/2014	External		
6	Submission of bids/public opening	0	27/10/2014	RDA	Done	15 Oct 2015
7	TEC: Evaluate technical bid	14	10/11/2014	RDA	Done	02 Dec 2014 11 Dec 2014
8	Review by procurement committee	7	17/11/2014	RDA	Done	02 Dec 2014

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
9	ADB review	21	08/12/2014	ADB	Approved	11 Dec 2014
10	Public opening of financial envelope	3	11/12/2014	RDA	Done	12 Dec 2014
11	Evaluate financial bid and TEC approval	14	25-12-2014	RDA	Done	21 May 2015 12 Jun 2015
12	ADB review and no-objection	21	15-01-2015	ADB	Approved	16 Jun 2015
13	Negotiation			RDA	Done	15 Jul 2015
14	ADB review and no-objection for negotiation			ADB	Approved	15 Jul 2015
15	Cabinet approval for award of work	14	29-01-2015	RDA	Approved	28 Oct 2015
16	Issue notice of award	2	31-01-2015	RDA	Done	12 Nov 2015

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works for North Central Province Rural Roads (6 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		28/08/2014	RDA	Done	04 Dec 2015
2	ADB review	28	25/09/2014	ADB	Approved	08 Dec 2015
3	Finalize revisions as necessary	5	30/09/2014	RDA		
4	Advertise invitation for bids in newspapers/ADBBO	1	01/10/2014	RDA	Done	14 Dec 2015
5	Preparation of bids	42	12/11/2014	External		
6	Submission of bids/public opening	0	12/11/2014	RDA	Done	12 Jan 2016
7	TEC: Evaluate technical bid	14	26/11/2014	RDA	Done	01 Feb 2016
8	Review by procurement committee	7	03/12/2014	RDA	Done	08 Feb 2016
9	ADB review	21	24/12/2014	ADB	Approved	24 Mar 2016
10	Public opening of financial envelope	3	27/12/2014	RDA	Done	28 Mar 2016
11	Evaluate financial bid and TEC approval	14	10/01/2015	RDA	Done	02 May 2016
12	ADB review and no-objection	21	31/01/2015	ADB	Approved	23 May 2016
13	Cabinet approval for award of work	14	14/02/2015	RDA	Done	14 Jun 2016
14	Issue notice of award	2	16/02/2015	RDA	Done	27 Jun 2016

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works for North Central Province RMC (1 Lot)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		30/08/2014	RDA	Done	10 Mar 2017
2	ADB review	28	27/09/2014	ADB	Done	28 Jun 2017
3	Finalize revisions as necessary	4	01/10/2014	RDA	Done	01 Jul 2017
4	Advertise invitation for bids in newspapers/ADBBO	1	02/10/2014	RDA	Done	02 Jul 2017
5	Preparation of bids	42	13/11/2014	External		
6	Submission of bids/public opening	0	13/11/2014	RDA		
7	TEC: Evaluate technical bid (Qual/Technical)	14	27/11/2014	RDA		

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
8	Review by procurement committee	7	04/12/2014	RDA		
9	ADB review	21	25/12/2014	ADB		
10	Public opening of financial envelope	11	05/01/2015	RDA		
11	Evaluate financial bid	9	14/01/2015	RDA		
12	Bid evaluation report and recommend award	3	17/01/2015	RDA		
13	Review by procurement committee	7	24/01/2015	RDA		
14	ADB review and no-objection	28	21/02/2015	ADB		
15	Issue notice of award	48	10/04/2015	RDA		

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, RMC = road management contracts, TEC = technical evaluation committee.

Procurement – Civil Works for Central Province Rural Roads (9 Lots)

No	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		28/08/2014	RDA	Done	
2	ADB review	28	25/09/2014	ADB	Approved	28 Aug 2014
3	Finalize revisions as necessary	5	30/09/2014	RDA	-	
4	Advertise invitation for bids in newspapers/ADBBO	1	01/10/2014	RDA	Done	03 Oct 2014
5	Preparation of bids	42	12/11/2014	External		
6	Submission of bids/public opening	0	12/11/2014	RDA	Deadline	04 Nov 2014
7	TEC: Evaluate technical bid	14	26/11/2014	RDA	Done	02 Dec 2014 12 Dec 2014
8	Review by procurement committee	7	03/12/2014	RDA	Done	03 Dec 2014
9	ADB review	21	24/12/2014	ADB	Approved	15 Dec 2014
10	Public opening of financial envelope	3	27/12/2014	RDA	Done	17 Dec 2015
11	Evaluate financial bid and TEC approval	14	10/01/2015	RDA	Done	17 Mar 2015 19 May 2015
12	ADB review and no-objection	21	31/01/2015	ADB	Approved	29 May 2015
13	Negotiation			RDA	Done	15 Jul 2015
14	ADB review and no-objection for negotiation			ADB	Approved	15 Jul 2015
15	Cabinet approval for award of work	14	14/02/2015	RDA	Approved	14 Oct 2015
16	Issue notice of award	2	16/02/2015	RDA	Done	29 Oct 2015

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works for North Western Province Rural Roads (7 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		02/09/2014	RDA	Done	04 Dec 2015
2	ADB review	28	30/09/2014	ADB	Approved	08 Dec 2015
3	Finalize revisions as necessary	14	14/10/2014	RDA		
4	Advertise invitation for bids in newspapers/ADBBO	1	15/10/2014	RDA	Done	14 Dec 2015
5	Preparation of bids	42	26/11/2014	External		

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
6	Submission of bids/public opening	0	26/11/2014	RDA	Done	12 Jan 2016
7	TEC: Evaluate technical bid	14	10/12/2014	RDA	Done	01 Feb 2016
8	Review by procurement committee	7	17/12/2014	RDA	Done	08 Feb 2016
9	ADB review	21	07/01/2015	ADB	Approved	24 Mar 2016
10	Public opening of financial envelope	3	10/01/2015	RDA	Done	28 Mar 2016
11	Evaluate financial bid and TEC approval	14	24/01/2015	RDA	Done	02 May 2016
12	ADB review and no-objection	21	14/02/2015	ADB	Approved	23 May 2016
13	Cabinet approval for award of work	14	28/02/2015	RDA	Done	14 Jun 2016
14	Issue notice of award	2	02/03/2015	RDA	Done	27 Jun 2016

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works for Kalutara District of Western Province Rural Roads (3 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		03/09/2014	RDA	Done	04 Dec 2015
2	ADB review	28	01/10/2014	ADB	Approved	08 Dec 2015
3	Finalize revisions as necessary	23	23/10/2014	RDA		
4	Advertise invitation for bids in newspapers/ADBBO	1	24/10/2014	RDA	Done	14 Dec 2015
5	Preparation of bids	42	05/12/2014	External		
6	Submission of bids/public opening	0	05/12/2014	RDA	Done	12 Dec 2016
7	TEC: Evaluate technical bid	14	19/12/2014	RDA	Done	01 Feb 2016
8	Review by procurement committee	7	26/12/2014	RDA	Done	08 Feb 2016
9	ADB review	21	16/01/2015	ADB	Approved	24 Mar 2016
10	Public opening of financial envelope	3	19/01/2015	RDA	Done	28 Mar 2016
11	Evaluate financial bid and TEC approval	14	02/02/2015	RDA	Done	02 May 2016
12	ADB review and no-objection	21	23/02/2015	ADB	Approved	23 May 2016
13	Cabinet approval for award of work	14	09/03/2015	RDA	Done	14 Jun 2016
14	Issue notice of award	2	11/03/2015	RDA	Done	27 Jun 2016

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, TEC = technical evaluation committee.

Procurement – Civil Works RMC for Other Packages (3 Lots)

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
1	Finalize bidding document		15/09/2017	RDA		
2	ADB review	28	12/10/2017	ADB		
3	Finalize revisions as necessary	6	18/10/2017	RDA		
4	Advertise invitation for bids in newspapers/ADBBO	1	19/10/2017	RDA		
5	Preparation of bids	90	18/01/2018	External		

No.	Activity	Days	Timeframe	Action By	Status	Actual Date
6	Submission of bids/public opening	0	18/01/2018	RDA		
7	TEC: Evaluate technical bid (Qual/Technical)	21	08/02/2018	RDA		
8	Review by procurement committee	7	15/02/2018	RDA		
9	ADB review	21	05/03/2018	ADB		
10	Public opening of financial envelope	7	12/03/2018	RDA		
11	Evaluate financial bid	7	19/03/2018	RDA		
12	Bid evaluation report and recommend award	7	26/03/2018	RDA		
13	Review by procurement committee	7	05/04/2018	RDA		
14	ADB review and no-objection	21	26/04/2018	ADB		
15	Issue notice of award	35	30/05/2018	RDA		

ADB = Asian Development Bank, ADBBO = Asian Development Bank Business Opportunities Website, RDA = Road Development Authority, RMC = road management contract, TEC = technical evaluation committee.

B. Procurement of Goods, Works, and Consulting Services

41. All procurement of goods and works will be undertaken in accordance with ADB's Procurement Guidelines (2015, as amended from time to time). All civil works contracts under the CRC have been awarded. There is no procurement of goods, works, and consulting services under tranches 3 and 4.

42. The government will inform ADB on the changes made to the national procurement regulations, if any, and carry out a joint review of the national competitive bidding (NCB) annex, if necessary. The procurement plan should be updated whenever changes in the procurement arrangements and/or the NCB Annex are required and agreed upon.

43. An 18-month procurement plan indicating threshold and review procedures, goods, works, and consulting service contract packages and national competitive bidding guidelines is in Attachment B (Procurement Plans).

44. All consultants were recruited according to ADB's Guidelines on the Use of Consultants (2013, as amended from time to time).¹⁰ The terms of reference for all consulting services are detailed in Attachment C.

45. To facilitate project management and implementation, four separate international firms will be recruited as (i) project implementation consultants (PICs), one for Project 1, one for Projects 2 and 3, one for Projects 4 and 5; and (ii) monitoring consultants for all RMC packages. The PICs and the monitoring consultants will assume the role of the Engineer and will supervise respective civil works and provide on-the-job training to counterpart staff from the RDA, and/or provincial and local road agencies. The consulting firms will be engaged using the quality- and cost-based selection (QCBS) method with a weighting of 90% technical and 10% financial as the nature of the assignment requires priority consideration for quality.¹¹

¹⁰ Checklists for actions required to contract consultants by method are available in the e-Handbook on Project Implementation at <http://www.adb.org/documents/handbooks/project-implementation/>

¹¹ The consultants will be required to support the implementation of several innovative activities, including performance-based maintenance, and climate change adaptation measures. Therefore, 90:10 is considered more appropriate.

46. Three PICs for Projects 1 to 5, and the monitoring consultants for the RMC packages have been recruited and mobilized.

C. Procurement Plans

47. The procurement plans are in Attachment B and describe all procurement of goods, works, and consulting services to be undertaken for the investment program.

D. Consultants' Terms of Reference

48. Outlines of the consultants' terms of reference are in Attachments C:

- C-1: Project Implementation Consultants (CRC packages of Project 1)
- C-2: Project Implementation Consultants (CRC packages of Projects 2 and 3)
- C-3: Project Implementation Consultants (CRC packages of Projects 4 and 5)
- C-4: Project Implementation Consultants (Monitoring Consultant) (RMC packages)
- C-5: Individual Advisory Consultants

VII. SAFEGUARDS

49. Pursuant to ADB's Safeguard Policy Statement (SPS), 2009, ADB funds may not be applied to the activities described on the ADB Prohibited Investment Activities List set forth at Appendix 5 of the SPS.¹²

A. Environment

50. **Tranche 1.** The scope of works under tranche 1 involves rehabilitation of existing rural and national roads. Some of the national roads will require only routine maintenance works to keep the roads in good riding condition. There will be no widening, and no roads falling inside protected areas will be included in the project. Therefore, tranche 1 has been categorized as *B* in accordance with ADB's SPS. Since there is a large number of short roads under the investment program, preparation of individual initial environmental examinations (IEEs) for each and every road will be difficult and time consuming. Hence, a consolidated provincial-level IEE has been prepared for all roads in the Southern Province and disclosed on the ADB website. The IEE was prepared based on completed road-specific environmental checklists with baseline data, public consultations, and literature reviews. An environmental assessment and review framework (EARF) has been prepared to guide environmental assessment of succeeding tranches under the program. Categorization and assessments for succeeding tranches will be carried out in accordance with the requirements of the EARF, the Ministry of Environment and Renewable Energy of the Government of Sri Lanka, and ADB's SPS.

51. **Tranche 2.** The scope of works under tranche 2 involves rehabilitation of existing rural and national roads. Some of the national roads will require only routine maintenance works to keep the roads in good riding condition. Project roads inside unclassified forestlands, forest plantations, and forest reserves may be included in the project provided no widening of roads will take place and subject to the approval of the Department of Forest. No project roads will be located inside legally protected areas or critical habitat such as strict nature reserves, wildlife

¹² Available at <http://www.adb.org/Documents/Policies/Safeguards/Safeguard-Policy-Statement-June2009.pdf>

sanctuaries, national parks, and nature reserves.¹³ No project road will be allowed inside the boundaries, including the prescribed buffer zone, of internationally or nationally recognized heritage and archeological sites. Finally, based on the environmental checklist, no road shall be included in the project where the presence of threatened or critically threatened or endangered species has been established. Therefore, tranche 2 has been categorized as *B* in accordance with ADB's SPS. Since there is a large number of short roads under the investment program, the preparation of IEEs for each and every road will be difficult and time consuming. Hence, a consolidated provincial-level IEE and one covering all RMC roads have been prepared for all roads in the Kandy, Matale, and Nuwara Eliya districts of Central Province; Anuradhapura and Polonnaruwa districts of North Central Province; Puttalam and Kurunegala districts of North West Province; Ratnapura and Kegalle districts of Sabaragamuwa Province; and Kaluthara district of Western Province. The IEE reports were prepared based on completed road-specific environmental checklists with baseline data, public consultations, and literature reviews. All project roads were selected based on the screening criteria provided in the EARF.

52. **Tranches 3 and 4.** Tranches 3 and 4 have been categorized as *B* consistent with tranches 1 and 2.

53. **Ensuring implementation of environmental standards.** The executing agency and the implementing agency will ensure that all environmental safeguard requirements under the program will be implemented as required by the EARF¹⁴ and the respective provincial level and RMC IEEs, including a standard environmental management plan (EMP) and environmental monitoring plan (EMOP). Environmental checklists were completed for each and every road, including bridges. Based on these checklists, one province-level IEE report was prepared by the survey and preliminary engineering (SAPE) team of the RDA. The report presented information and issues unique to a district or geographic area or project road, and all sensitive issues identified in the environmental checklist were documented. The standard EMP and EMOP covered all environmental issues expected during road construction and/or maintenance within the respective province. The contractor, who is responsible for preparing the final detailed design of the roads, will be required to prepare contract-specific EMPs and EMOPs based on the final detailed design, validated information in the road-specific environmental checklists, and the standard EMP.¹⁵ These will be subject to approval by the PICs and the PIUs. Necessary provisions for this will be included in the bidding documents, and accordingly, the contractor will be required to include all costs for implementing the contract-specific EMP and EMOP.

54. The EMP is a plan for mitigating all anticipated environmental impacts during project construction and operation. Specific mitigation measures with details on location, time, and the responsible agency for implementation are given in the EMP.

55. The EMOP is a plan for monitoring various environment quality parameters and checking the effectiveness of the EMP. It comprises activities on testing the quality of air, water, and noise

¹³ Critical habitat, according to ADB's Safeguard Policy Statement, are areas with high biodiversity value, including habitat required for the survival of critically endangered or endangered species; areas having special significance for endemic or restricted range species; sites that are critical for the survival of migratory species; areas supporting globally significant concentrations or numbers of individuals of congregatory species; areas with unique assemblages of species or that are associated with key evolutionary processes or provide key ecosystem services; and areas having biodiversity of significant social, economic, or cultural importance to local communities.

¹⁴ ADB. 2014. *Environmental Assessment and Review Framework*. Manila. See Table 4: Responsibilities for Environmental Safeguards Implementation at <http://www.adb.org/sites/default/files/project-document/81030/47273-002-earf.pdf>

¹⁵ Contractors are required to conduct their own transect walk to update physical information and to conduct consultations to solicit community knowledge and requirements that should be reflected in the design.

through laboratory tests and physical monitoring of problems of soil erosion, tree plantations, and habitat enhancement activities carried out, and occupational health and safety issues. Quality testing of air, water, and noise will be outsourced by the contractor to recognized and approved laboratories. The PIC will conduct monthly monitoring of EMP and EMOP implementation and review monthly monitoring records maintained by the contractors. The Environment and Social Development Division (ESDD) will also conduct onsite monitoring and review of documents at least biannually and provide technical advice to enhance EMP implementation as necessary.

56. All required clearances, permits, and licenses as applicable will be obtained by the project implementation unit before the start of construction works in the respective road sections. Permits, licenses, etc., for activities such as operation of asphalt plants, quarries, borrow areas, etc., must be obtained by the contractor before the implementation of the respective construction activity.

B. Involuntary Resettlement

57. **Tranches 1 and 2.** Both tranches are classified as category *B* in accordance with ADB's SPS. The improvement of all project roads will be carried out within the existing alignment with no widening. A land acquisition due diligence was undertaken for all roads and did not identify any impact on land, structures, private trees, or community resource properties. Social impact assessments comprising at least 20% households and focused group discussions were also conducted. However, for the 7-year road management contract of selected national roads, the resettlement impact might be encountered at a late stage.

58. **Tranches 3 and 4.** Both tranches are classified as category *B* in accordance with ADB's SPS following the same categorization as the previous tranches. A due diligence report covering all subprojects was prepared, which confirms that safeguard impacts are minimal as was envisaged during appraisal and that tranches 1, 2, and 3 are compliant with the social safeguard requirements outlined in the resettlement framework prepared for the MFF.

59. **Pre-construction.** The RDA, supported by its ESDD and context-sensitive design (CSD) consultants, will be responsible for conducting a transect walk for each rural road, during which the community will be consulted on how to (i) minimize construction impact, (ii) identify and minimize social and environment impacts, and (iii) integrate road safety design. The community will also be briefed about the grievance redressal mechanism. The results from the transect walk (report and map) will be submitted to the civil works contractor who will reconfirm the ground realities and integrate feasible features into the Level-1 final design. The PIC will review the final design.

60. **Construction and maintenance.** During the construction phase, the PICs will be responsible for conducting semi-annual onsite social safeguard monitoring. During the maintenance phase, the PICs will be responsible for conducting annual onsite social safeguard monitoring. The PICs should pay close attention to ensuring that all grievances are addressed in a timely manner. Reporting templates can be found in the resettlement framework.

61. **Preparation of subsequent tranches or unanticipated impact.** A resettlement framework has been prepared to guide the preparation of all tranches. For the preparation of the subsequent tranche, the PICs will carry out due diligence on the ongoing tranches. The RDA will be responsible for initial road selection based on the growth potential of the Grama Niladhari divisions as rural hub. The ESDD will then conduct land acquisition due diligence and social impact assessment. All the affected households will need to be covered, and 20% census of households in the project impact area will be surveyed. If land is required for the rural roads

component, the voluntary land donation system will be used. For land donation, specific procedural requirements involving comprehensive consultations with the communities have been prepared in Appendix 3 of the resettlement framework, and the government will ensure that land donation is undertaken without coercion and documented in a transparent manner. Eminent domain will not occur if negotiation regarding land donation fails. Households will not donate more than 5% of landholdings, and no physical displacement will take place. The PICs will visit roads with land donation on a monthly basis until the land donation process is finalized. An independent monitor will be engaged to verify and certify that the process has been done as per the resettlement framework. For national roads requiring land, the acquisition will take place in accordance with the requirements of the government and ADB's SPS, and land and assets will be compensated at replacement cost for both titleholders and non-titleholders. A resettlement plan will be prepared for projects with impact. For all roads, civil works cannot commence until the right of way is free of encumbrance, meaning that the affected household must be fully compensated and/or assisted prior to dismantling or relocation. The PIU will be supported by the RDA's ESDD and a social safeguard team under the PICs. If unanticipated social safeguard impacts are encountered during implementation, the government will provide sufficient budget.

C. Indigenous Peoples

62. For the investment program, an indigenous peoples planning framework (IPPF) has been prepared to guide the screening and preparation of safeguard planning for future tranches.

63. For tranches 1 and 2, no indigenous people were identified during due diligence, and both tranches are accordingly categorized as *C* per ADB's SPS. Tranches 3 and 4 will continue to finance the subprojects identified in the two earlier tranches; therefore, both tranches will follow the categorization of *C*. In case any adverse impacts are identified during implementation, the RDA will ensure that the indigenous peoples plan (IPP) is prepared in accordance with the IPPF, and the IPP is reviewed and approved by ADB before commencement of the relevant section of the civil works contract.

D. Grievance Redress Mechanism

64. The grievance redress mechanism will be established consistent with the requirements of the EARF. Grievances from the affected people on social and environmental issues during project implementation will be addressed mainly through the existing local administrative system. Depending on the nature and significance of the grievances or complaints, grievances will be addressed at three levels: (i) at the grassroots level where complaints will be directly received and addressed by the contractor, the PIC or PIU representative onsite; (ii) grievances that are simple but still cannot be addressed at the grassroots level will be addressed at the Grama Niladhari division level; and (iii) more complex grievances that cannot be addressed at the Grama Niladhari division level will be addressed at the Divisional Secretariat level. There will be a grievance redress committee at both the Grama Niladhari division and Divisional Secretariat levels.

VIII. GENDER AND SOCIAL DIMENSIONS

A. Gender and Development

65. Tranches 1, 2, 3, and 4 are categorized as *effective gender mainstreaming* (EGM). During the preparation of tranches 1 and 2, separate gender action plans (GAP) were formulated since the two tranches cover different geographical areas. During the preparation of tranches 3 and 4,

the GAP for the entire investment program was formulated (Table 17) since the entire scope of the investment program is now defined, and subsequent tranches will finance the subprojects that were appraised in the first two tranches. Gender mainstreaming activities include (i) ensuring that 40% women are consulted during project preparation; (ii) integrating features to increase safety and meet the needs of the elderly, women, children, and the disabled into the final design; (iii) ensuring that at least 30% of local employees hired for road maintenance are women, and that they receive equal wages for equal work done for both skilled and unskilled labor in project works; (iv) providing road maintenance training to all women who are employed; (v) ensuring women's participation in road safety, HIV/AIDS, and human trafficking awareness campaigns targeting local communities; (vi) appointing a social and gender focal point in each of the four project implementation units, trained by a specialist of the project implementation consultant; and (vii) building the capacity of the RDA and the five provincial road agencies on gender-inclusive design and gender mainstreaming in project preparation, consultation, road construction, and maintenance. An impact assessment will continue to be conducted on sample roads from tranche 1 and will undertake a time-use study of women in project-affected areas.

66. To ensure that all gender issues are addressed, a social development and gender expert will be engaged by each of the two project implementation consultants, with a total input of 57 person-months of services, to implement and monitor the GAP. A gender focal officer will be assigned in each of the project implementation units. Semi-annual monitoring of the GAP shall be prepared and submitted to ADB for disclosure.

67. A GAP for the entire investment program has been formulated (Table 17). This plan combines the indicators and targets that were previously outlined in the GAPs for tranches 1, 2, and 3. Adequate resources for monitoring and reporting on the implementation of the GAP activities have been allocated.

Table 25: Gender Action Plan for the Investment Program (Tranches 1–4)

Activity		Indicator	Responsibility	Timeframe
Output 1: Improved rural roads and national road network				
1.1	For 3,108 km of rural roads to be improved, conduct community consultations and integrate findings into the final design, addressing issues of (i) road safety and EWCD features; (ii) construction impact and mitigation measures; and (iii) social and environmental impact and mitigation measures.	- At least 40% female representation in consultations related to the final design. (As of tranche 3: 39%) - Consultation findings are integrated into the final design. - Road safety and EWCD features include pedestrian crossings and location of signage.	Conducted by ESDD/RDA	Year 1
1.2	For 248 km of national roads to be improved, integrate safety and EWCD-friendly features into the final design.	- EWCD and safety design features integrated into final design. (Completed) - Designs include paved shoulders, pedestrian crossings, and location of signage. (Completed)	- Conducted by civil works contractor - Monitored by PIC and ESDD/RDA	Year 1–Year 2
1.3	Employ local women for road maintenance and ensure equal wages for equal work done by both male and female, skilled and	- At least 30% of local road maintenance workers employed are women. - For rural roads, a 3-year	Conducted by ESDD/RDA	Year 3–Year 7

Activity		Indicator	Responsibility	Timeframe
	unskilled labor in project works.	maintenance period with an estimated 222,000 person-days of work for women. For national roads, a 7-year maintenance period with an estimated 44,000 person-days of work for women. (Not yet started)		
1.4	Train local women for routine road maintenance.	100% of women employed for maintenance are trained. (Not yet started)	- Conducted by contractor - Monitored by PIC	Year 3–Year 7
1.5	Ensure women's participation in road safety awareness campaigns targeting local communities.	At least three awareness sessions per district conducted for a total of 39 sessions in all districts with at least 30% female participants. (48% after 13 sessions)	- Conducted by PIC - Monitored by ESDD/RDA	Year 2–Year 5
1.6	Provide awareness training on sexually transmitted diseases, STI, including HIV, and human trafficking for civil works employees and local communities.	- At least three awareness sessions per district conducted for a total of 39 sessions in all districts with at least 30% female participants. (12% after 27 sessions) - Awareness training conducted on an annual basis for civil works employees by all 11 contractors. (Ongoing)	- Conducted by PIC (for community) - Conducted by civil works contractor (for civil works staff)	Year 2–Year 7
Output 2: Enhanced capacity of RDA and provincial road executing agencies				
2.1	Institutionalize sex-disaggregated database and conduct gender analysis during preparatory surveys for all rural road projects in Sri Lanka.	Poverty and social assessment study includes gender assessment with sex-disaggregated data for relevant indicators. (Ongoing)	- Conducted by ESDD - Supported by Gender Focal Point, ADB SLRM	Year 1–Year 7
2.2	Appoint a social and gender focal at the PIU level and trained by a specialist in the PIC.	Effective social and gender officer engaged. (Completed)	- Engaged PIU - Trained by PIC - Monitored by ESDD/RDA	Year 1
2.3	Build the capacity of the RDA and provincial road agencies on gender-inclusive design and mainstreaming gender in project preparation, consultation; road construction; and maintenance.	- At least 20 RDA staffs at the national level and 20 staffs of provincial road agency trained in mainstreaming gender in road construction and maintenance. (Ongoing) - Maintenance manual with specific section on gender-inclusive initiatives endorsed by the RDA.	- Conducted by PIC - Supported by Gender Focal Point, ADB SLRM - Monitored by ESDD/RDA	Year 2–Year 4
2.4	Conduct impact assessment for	Socioeconomic impact	Conducted by ADB	Year 1–Year 8

Activity		Indicator	Responsibility	Timeframe
	sample roads with sex-disaggregated indicators.	assessment conducted for sample roads with a focus on time-use study of women road users. (Ongoing)	(ERD)	
Output 3: Project preparation of the following tranches				
3.1	Collect sex-disaggregated data and conduct a gender analysis during preparatory surveys, feasibility studies, assessments, and reports.	Poverty and social assessment study include gender assessment with sex-disaggregated data for relevant indicators. (Completed)	Conducted by ESDD/RDA	Year 1–Year 2
3.2	Integrate gender-inclusive features into the final design and formulate gender-mainstreaming activities.	At least 50% of outputs for subsequent tranches include gender-related targets. (Completed)	Conducted by ESDD	Year 1–Year 2

ADB = Asian Development Bank, ERD = Economic Research Department (ADB), ESDD = Environment and Social Development Division (Road Development Authority), EWCD = elderly–women–children–disabled, km = kilometer, PIC = project implementation consultant, PIU = project implementation unit, RDA = Road Development Authority, SLRM = Sri Lanka Resident Mission, STI = sexually transmitted infections.
Source: Asian Development Bank.

B. HIV and AIDS

68. The RDA will ensure that all civil works contractors complete the following: (i) carry out awareness programs for labor on the risks of sexually transmitted diseases/AIDS and human trafficking, and (ii) disseminate information at worksites on the risks of sexually transmitted diseases and HIV/AIDS as part of health and safety measures for those employed during construction. Contracts for all subprojects will include specific clauses on these undertakings and compliance will be strictly monitored by the RDA, with the support of construction supervision consultants during project implementation.

C. Health

69. The RDA shall ensure that contractors provide adequately for the health and safety of construction workers and further ensure that bidding documents include measures on how contractors will address this, including an information and awareness raising campaign for construction workers on sexually transmitted diseases, HIV/AIDS, and human trafficking.

D. Labor

70. The project construction is expected to generate employment opportunities for local communities during the construction and maintenance phases. Men and women will be paid equally for equal work. Provisions are in the bidding documents for the contractors to ensure that all the civil works comply with core labor standards (e.g. no child labor; no bonded labor; no work discrimination regardless of gender, race, and ethnicity; and freedom of association and collective bargaining). Targets for employing women for construction and maintenance have been established in the GAP. The project implementation consultant will monitor the provisions.

IX. PERFORMANCE MONITORING, EVALUATION, REPORTING, AND COMMUNICATION

A. Design and Monitoring Framework

71. The design and monitoring framework (DMF) for the investment program is in Schedule 2 of the FFA. The DMF for each tranche is attached to the respective periodic financing requests (PFR).

B. Monitoring

72. **Project performance monitoring.** The achievement of the project performance targets will be assessed following the DMF. The RDA, assisted by the PIC, SAPE consultants, and other consultants as required, will establish and assist with the implementation of a project performance management system (PPMS). The PPMS will include detailed methodology of data collection and analysis ensuring statistical validity, isolation of compounding factors, and comparison with baseline and control data. As a minimum, the indicators will be monitored before and after construction/project, both on the project and control roads.

73. Indicators to be monitored may include, but not be limited, to the following: (i) number of newly connected habitations (total, by district, and size); (ii) length of roads constructed/upgraded (total, by district, by habitation size, terrain, etc.); (iii) traffic volume and travel time on constructed roads; (iv) periods of construction (by road length, terrain, etc.), amounts and frequencies of variation orders, frequencies and durations of holding up of civil works by rural communities (by causes, including instances of holding up of civil works due to the omissions in design); (v) pavement condition index on rural roads under 3-year maintenance; and (vi) percentage of detailed design undergoing road safety audits (RSAs) and amended following RSAs of detailed design.

74. The PIC will also establish a system for the monitoring of socioeconomic indicators in the selected habitation served by the investment program roads as compared to the unconnected habitations, such as (i) poverty rates, (ii) number of maternal and infant deaths, (iii) number of total vs. safe deliveries, (iv) immunization rates, (v) unemployment rates, (vi) agricultural production of perishable goods, (vii) income and expenditures of rural households, and (viii) district cash turnover of agricultural produce in local markets served by investment program roads, etc. The PIC will conduct baseline surveys at the outset of each tranche.

75. The RDA will also monitor (i) the project budget and actual expenditure, (ii) road maintenance budget, (iii) ratio of km of rural road network per staff dedicated to road maintenance, (iv) road maintenance cost per km, and other relevant indicators.

76. The results of the performance monitoring will be carefully documented and made accessible to MOHEH, the RDA, and ADB. The PIC will establish a practice of annual presentation to MOHEH, the RDA, and ADB on the key performance indicators of the investment program.

77. **Compliance monitoring.** Compliance with loan covenants will be monitored through ADB's project administration missions, including the project inception mission, to discuss and confirm the timetable for compliance with the loan covenants; project review missions to review the compliance with particular loan covenants and, where there is any noncompliance or delay, to discuss proposed remedial measures with MOHEH/RDA; and the midterm review mission, if necessary, to review covenants to assess whether they are still relevant or need to be changed,

or waived due to changing circumstances.

78. **Environment.** Implementation of the EMP will be monitored internally by the PIU, and externally by the PIC. For environmental safeguards, monitoring of EMP implementation will be carried out during the pre-construction, construction, and operation and maintenance stages of the investment program. Based on the EMP, monitoring checklists will be prepared for each of these stages. Every road must have at least one monitoring checklist completed during pre-construction, one to three¹⁶ during construction depending on the length of the road, and one per year during operation and maintenance. Records of these completed monitoring checklists must be systematically maintained within the PIC and/or PIU office. Based on these records and site visits, monitoring reports will be prepared during the construction and operation stage on an annual basis per province and submitted to ADB for disclosure on the ADB website. Satisfactory due diligence reports will be prepared and submitted to ADB before approval of the next tranche.

79. **Involuntary resettlement.** Internal monitoring will be carried out by the PIUs with the support from the PICs if land donation is required; an independent monitor will be engaged to verify the land donation process. Semi-annual monitoring reports will be submitted to the RDA and ADB, and disclosed on the ADB website. Satisfactory due diligence reports will be prepared and submitted to ADB before approval of the next tranche. Attachment F includes suggested monitoring indicators and Attachment G provides a suggested outline of the semi-annual monitoring report.

80. **Indigenous peoples.** If impact is identified, the IPPF will guide the preparation, implementation, and monitoring of relevant actions.

81. **Gender and development.** To monitor the implementation of the GAP, the Gender Action Plan Progress Update (Attachment H) will be completed and submitted as an attachment to the semi-annual monitoring report of the project. Semi-annual monitoring reports will be prepared by the PIUs with support from the PICs and submitted to the ESDD/RDA and ADB.

C. Evaluation

82. ADB inception missions will be fielded within 3 months after the legal agreements for the investment program and each project are declared effective. Thereafter, regular reviews will follow at least annually. As necessary, special loan administration missions and midterm review missions will be fielded, under which any changes in scope or implementation arrangement may be required to ensure achievement of project objectives. The RDA at the central level and the PIU at the project level will monitor the implementation of the investment program in accordance with the schedule and time-bound milestones, and keep ADB informed of any significant deviations that may result in the milestones not being met. Within 6 months of physical completion of each of the tranches under the investment program, the RDA will submit a project completion report to ADB.¹⁷

D. Reporting

¹⁶ The monitoring checklist during the construction stage will be completed three times when the progress of physical works is 25%, 50%, and 75% respectively. This may not be practically feasible for shorter roads that are only 1 to 3 km long. Hence, for these shorter roads, only one completed monitoring checklist during construction stage will be adequate.

¹⁷ Project completion report format is available at <http://www.adb.org/Consulting/consultants-toolkits/PCR-Public-Sector-Landscape.rar>

83. Disaggregated data for all output and outcome indicators will be updated and reported quarterly. MOHEH through the RDA will provide ADB and the Department of Project Management and Monitoring with (i) quarterly progress reports submitted within 45 days after the end of each quarter in a format consistent with the PPMS and the DMF, and will provide information necessary to update ADB's PPMS;¹⁸ (ii) consolidated annual reports including (a) progress achieved by output as measured through the indicator's performance targets, (b) key implementation issues and solutions, (c) updated procurement plan, and (d) updated implementation plan for the next 12 months; (iii) annual environmental monitoring report and proofs of public disclosure; and (iv) a project completion report within 6 months of physical completion of each tranche under the investment program. To ensure viability and sustainability, project accounts and the audited financial statements, together with the associated auditor's report, will be adequately reviewed.

84. Progress of civil works will be reported regularly by field engineers to the PIU. The PIU will submit monthly progress reports to MOHEH, the RDA, and the Department of Project Management and Monitoring. Based on these reports, MOHEH, with assistance from the RDA, will include in the quarterly progress reports all required information on the implementation of civil works. This will include data on progress made during the period of review, changes if any in the implementation schedule, problems or difficulties encountered and remedial actions taken, and work to be undertaken in the coming quarter.

E. Stakeholder Communication Strategy

85. Various information regarding the investment program and each of the tranches, including the scope, general progress status, beneficiaries, invitations for bids, and consultant recruitment notices, will be provided to the general public. The information will be made available and updated through the official RDA website and ADB. ADB's communication strategy is summarized in Table 26.

Table 26: ADB's Communication Strategy

Project Documents	Means of Communication ^a	Responsible Party	Frequency	Audience(s)
Project data sheet (PDS)	ADB website	ADB	Initial PDS no later than 30 calendar days of approval of the concept paper; quarterly updates afterwards	General public
Design and monitoring framework (DMF)	ADB website	ADB	Draft DMF after fact-finding mission for the investment program and each tranche	General public
Initial environmental examination reports (IEE)	ADB website RDA website	ADB	Post fact-finding mission for the investment program and each tranche	General public, project-affected people in particular
Resettlement framework (RF) and social safeguard due diligence report	ADB website RDA website	ADB	Post fact-finding mission for the investment program and each tranche	General public, project-affected people in particular
Indigenous peoples	ADB website	ADB	Post fact-finding mission for the	General public,

¹⁸ ADB's project performance reporting system is available at <http://www.adb.org/Documents/Slideshows/PPMS/default.asp?p=evaltool>

Project Documents	Means of Communication ^a	Responsible Party	Frequency	Audience(s)
planning framework (IPPF)			investment program and each tranche	project-affected people in particular
Summary poverty reduction and social strategy (SPRSS)	ADB website	ADB	Post fact-finding mission for investment program and each tranche	General public, project-affected people in particular
Environmental assessment and review framework	ADB website	ADB	Post fact-finding mission for investment program and each tranche	General public, project-affected people in particular
Gender action plan	ADB website	ADB	Semi-annually	General public, project-affected people in particular
Legal agreements	ADB website	ADB	No later than 14 days after Board approval of the project	General public
Facility administration manual	ADB website	ADB	After loan negotiations	General public
Social monitoring reports (social safeguards and other social aspects)	ADB website	ADB	Semi-annually	General public, project-affected people in particular
Environment monitoring report	ADB website	ADB	Annually	General public, project-affected people in particular

ADB = Asian Development Bank, RDA = Road Development Authority.

^a The RDA website will have a hyperlink to the ADB website where all these documents will be posted.

X. ANTICORRUPTION POLICY

86. ADB reserves the right to investigate, directly or through its agents, any violations of the Anticorruption Policy relating to the investment program.¹⁹ All contracts financed by ADB shall include provisions specifying the right of ADB to audit and examine the records and accounts of the executing agency and all investment program contractors, suppliers, consultants, and other service providers.

87. Individuals/entities on ADB's anticorruption debarment list are ineligible to participate in ADB-financed activity and may not be awarded any contracts under the investment program.²⁰

88. To support these efforts, relevant provisions are included in the loan agreements, regulations, and the bidding documents for the investment program.

89. The RDA shall ensure that its website provide updated, detailed information on the implementation of the investment program, specifically procurement related information, including the list of participating bidders, name of the winning bidder, basic details on bidding procedures adopted, amount of each contract awarded, and adequate details of the goods, works, and consulting services procured for the investment program.

¹⁹ ADB's Integrity Office website is available at <http://www.adb.org/integrity/unit.asp>

²⁰ Available at <http://www.adb.org/Documents/Policies/Anticorruption-Integrity/Policies-Strategies.pdf>

XI. ACCOUNTABILITY MECHANISM

90. People who are, or may in the future be, adversely affected by the project may address complaints to ADB, or request the review of ADB's compliance under the Accountability Mechanism.²¹

91. The grievance redress mechanism will be established throughout the investment program. Grievance redress committees at both the Grama Niladhari and Divisional Secretariat levels will be in place to receive and resolve complaints, as well as to act upon stakeholders' reports of irregularities on project related matters, including grievances concerning land donation procedures. The RDA will widely publicize the existence of this mechanism to ensure that stakeholders are aware that a venue is available to address concerns or grievances relating to fraud, corruption, abuse, and any other aspects of project implementation.

92. People who are, or may in the future be, adversely affected by the project may submit complaints to ADB's Accountability Mechanism. The Accountability Mechanism provides an independent forum and process whereby people adversely affected by ADB-assisted projects can voice, and seek a resolution of their problems, as well as report alleged violations of ADB's operational policies and procedures. Before submitting a complaint to the Accountability Mechanism, affected people should make an effort in good faith to solve their problems by working with the concerned ADB operations department. Only after doing that, and if they are still dissatisfied, should they approach the Accountability Mechanism.²²

XII. RECORD OF FAM CHANGES

93. All revisions/updates during the course of implementation should be recorded and retained under this section to provide a chronological history of changes to implemented arrangements recorded in this facility administration manual (FAM).

- Updated on 3 September 2014 for tranche 2 processing
- Updated on 3 August 2015 for tranche 3 processing
- Updated on 30 July 2017 for tranche 4 processing

²¹ For further information, see <http://compliance.adb.org/>

²² Accountability Mechanism. <http://www.adb.org/Accountability-Mechanism/default.asp>.

LIST OF ROADS**TRANCHE 1: ROAD LIST (CATEGORY BASED)****SOUTHERN PROVINCE****A. National Road**

District	Road ID	Road Name	Length (km)
Galle	71	Karapitiya – Waduraba	12.70
	72A	Nagoda – Gonnadeniya	4.00
	72B	Gonadeniya – Udugama Bar Junction	4.40
	73A	Udugama – Hiniduma	11.00
	73B	Hiniduma – Thawalama	6.60
	74	Thawalama – Neluwa – Batuwangala	9.70
	75A	Wanduramba – Yatalamaththa – Nagoda	10.20
	75B	Udugama (Bar Junction) – Udugama (Bus Stand)	2.80
	44A	Elpitiya – Awithawa	9.50
Total (A)			70.90

B. Provincial Road

District	Serial No.	Road Name	Length (km)
Galle	1	Mavita – Dooliella	6.2
	15	Pangiri hena – Mayakaduwa	5.8
	20	Hapugala Eriyagaha Junction	1.2
	34	Wackwella – Ginimellagaha	6.0
	38	Goluwamulla – Atakohota	2.2
	42	Opatha – Omatta – Gulugaha	4.8
Matara	16	Berala panathara – Thalapala kanda	6.0
	60	Thumbe – Kongala	4.7
Hambantota	14	Magama Road	8.4
	36	Koggalla Sooriyawewa	7.3
Total (B)			52.6

C.1 Rural Road – Galle District

District	Serial No.	Road Name	Length (km)
Galle	2	Batuwangala – Ehalapitiya	1.1
	3	Madagama – Ihalamadagama – Puswelkada – Maddegama – Bopagoda	7.3
	4	Danwala – Mawita	3.7
	5	Batahena – Kudagalpola – Habarakada	9.0
	6	Dharmapala Vidyalaya – Dunhena	1.2
	7	Habarakanda – Ibbawala Yattapatha	3.2
	8	Kumburagoda – Mandalapura	6.8
	9	Halwitigala Janapadaya Thawalama Mukalana	2.8
	10	Mandalapura 12th mile post	2.2

District	Serial No.	Road Name	Length (km)
	11	Mayakaduwa Kombala Temple Watiyadeniya Heenpendala	1.0
	12	Kabaragala Badipita Puswelkada Unagaswita Galpoththa Kombala Junior School 10th mile post Thiyabarahena Road	7.0
	13	Tharamulla Allalagoda Road	2.3
	14	Galketiya Jayasumanaramaya Goviyapana Junction	1.5
	16	Liyanagoda Lanumodara Pitiduwa	3.0
	17	Dodampe Pedinnoruwa	1.8
	18	Kombala Haramulla Niriwella	3.5
	19	Mayakaduwa Wadiyakanda Makaduwa Temple Kakillawatta Junction	3.3
	21	Edirisinghe Mawatha Nawinna	1.6
	22	Kapuhempala Ambalamakanda Hinidumgoda Haliwala	1.8
	23	Poorwarama Road Bataduwa	2.0
	24	Bataduwa Sudarmaramaya Road	1.0
	25	Hiyare East School Road via Kaluwala Badipita Hawpe	1.2
	26	Kimbulawala Porawagama Road	3.9
	27	Hattaka Pitigala North Sasanathilaka Mawatha	3.4
	28	Kurupanawa Maliban Junction Old Samurdhi Building via Polkella	1.2
	29	Udugama Kothalawala Road	6.6
	30	Udugama Aluthwatta	5.0
	31	Yakkalamulla via Udumullagala to Nakiyadeniya	4.0
	32	Janahitha Tea Factory Nawungala School via Usbim Janapadaya	2.7
	33	Nawala Community Hall to Goluwamalhena via Ellagawa	5.1
	35	K.G. Palis Mawatha	2.0
	36	Waulugala Batakatiya	2.0
	37	Nagasdeniya Halpathota	2.0
	39	Goluwamulla Welimanana Nagahathenna	1.9
	40	Amuna Junction Maitrigama	3.9
	41	Pinikahana – Puwakdola	2.7
	44	Galparaya Road	2.0
	45	Surasena Mawatha	1.7
	46	Deddugala Bataduwa	1.0
	47	Waduveliwiitiya Muktawela Junction Putuwagoda watta via Soratha Gammanaya	1.3
	48	Manampita – Dehigaha Bedda Kirindiela	2.7
	50	Welibokkuwa – Banwelgodella	0.9
	51	Ampegama School – Unapandura Junction Road	1.3
	52	Batapola Dorala junction to Kirimatiara Road	1.1
	53	Nindana school to 5th mile post via Waturawila	5.0
	54	Kahawa – Galduwa Road	1.9
	55	Dewagoda – Balabokka Road	0.7
	56	Boosa Kakilla mandiya Reggipura Madawala Road	3.0
	57	Buddajayanthi Mawatha Thirangama	1.3
	58	Ratagama Imbulagoda	1.4
	59	Sirikadura watta Sunami Niwasa Road	1.4

District	Serial No.	Road Name	Length (km)
	60	Dudly Senanayaka Mawatha Weragoda	1.4
	61	Boosa Hagoda Rajakoratuwa Road	1.2
	62	Galduwa Aranya Road	2.3
	63	Kaluwalagoda Road	5.0
	64	Mada Kubura Junction Kaluwala goda	4.5
	65	Bogaha Jjunction Kaluwala goda	1.9
	66	Hatharaman Junction – Pasma Junction	1.7
	67	Thannahengoda Road	2.0
Total (C.1)			161.4

C.2 Rural Road – Matara District

District	Serial No.	Road Name	Length (km)
Matara	1	Kohugoda Road	5.5
	2	Poramba School – Diyalape Junction via Hikgoda	3.7
	3	Iluppella – Mahingoda- Bopitiya	5.2
	5	Paraduwa – Pahuranwila	2.4
	6	Bangama Junction – Dola Mawatha	2.5
	7	Sri Sudarshi Pirivena Junction to Bibulewela Shramadana Road	3.7
	8	Alapaladeniya – Thalpekumbura	2.5
	9	Dangala – Dellawa	2.4
	10	Morawaka – Millawa	2.9
	11	Abewala – Thibbatuwawa	4.9
	12	Millagaha hena-Kudagala hena	4.0
	13	Darangala-Dahaya Kanda Mahena	3.5
	14	Batayaya – Kandilpana – Bewraliia	13.5
	15	Morawaka – Paragala Diyadawa	11.2
	17	Kosmodara – Bodeniya	4.0
	18	Pathawala – Nadakanda – Keeriwelagama	2.8
	19	Kiriwellagama Market to Dewala Road	1.2
	20	Kiriwalladola junction to Hingurahena	2.1
	21	Keeriwaldola – Keeriwelgama	2.3
	22	Porupitiya Annasigalawila	1.4
	23	Millalle via Aluwana Sankassa to Madde Ala Road	6.9
	24	Weliwa Pahuruthota – Neel Ella	4.2
	25	Bengamuwa-Dabogala Road up to Napath Ella	3.2
	27	Kanake- Polhene – Nagashena- Puhulhene Road	2.7
	28	Dehigahahena – Udukawa	2.5
	29	Denuwala – Kapuwatta Jaya wijayagama	2.6
	30	Yatipila – Udahahena – Henwala	1.8
	31	Udupila Junction – Udupila Vihandagoda – Bandaramulla	1.6
	32	Ibbawala – Panchaliya – Andugoda	2.3
	33	Ibbawala – Ranamaduuraagama	1.3

District	Serial No.	Road Name	Length (km)
	34	Welipitiya Junction – Addarawela	2.2
	35	Jaburegoda – Bodhirukkaramaya	2.3
	36	Pathegama Kudalumulla	2.3
	37	Jamburagoda Heeeligoda Junction – Bodduwa	1.8
	38	Kananke Police Station Dewelagoda	1.6
	39	Kotavila Kudawella Sulthanagoda	2.0
	40	Udukawa Baduravila Road	1.2
	41	Welipitiya junction – Munamalpe Udukawa	2.4
	42	Urawa – Pilikannahena Thalgasthenna Rotuba	2.5
	43	Lew Pothdeniya	2.6
	44	Urubokka – Pothdeniya	6.4
	45	Baragammulla Moragasmandiya	2.7
	46	Narangalgoda – Palliya Gedara	2.3
	47	10th mile post – Hakmana Gedara Kade	3.4
	48	Karatota School – Gewal Dahaya	2.4
	49	Kubalgoda Seelaratna Mawatha	1.7
	50	Samagimawatta via Siridewapriya mawatha	2.7
	51	Atapattukanda Handiya – Pothuvila	1.4
	52	Wilpita – Ukgashena via Ransagoda Galpothta junction Keeriwelagama	5.4
	53	Agawaththa thalagoda	1.2
	54	Ogaspe junction to Maligathenna Athtuduwa	1.2
	55	Pahattu Kade to Nagoda via Welihinda junction	1.0
	56	Sulthangoda Kotavila	1.2
	57	Sulthangoda – Welihinda	1.0
	58	Kongala D.C Abeywickrama Road	2.4
	59	Obadakanda Badabadda Road	4.7
	61	Sri Piyaathana Mawtha (Kakuluwangoda – Mawatha)	1.9
	62	Ashokarama Road	1.7
	63	Degigewatta Hakalamulla	1.2
	64	Kaluhena Kolaniya Road	4.3
	65	Diyadawa – Olakumbura via Kosmodara	2.5
	66	Diyadawa – Bata Adura	7.5
	67	Kolawenigama – Uggalpotha	1.6
Total (C.2)			193.5

C.3 Rural Road – Hambantota District

District	Serial No.	Road Name	Length (km)
Hambantota	1	Pattiyawela – Pallattara	3.9
	2	Upaskagoda well – Water tank	1.2
	3	Edirisinghe Mawatha	1.2
	4	Polapothe Watta Road	1.0
	5	Siyabalapa hena	1.3
	6	Anamaduwa – Aranwela	2.2
	7	Pattiyawela –Tharapeliya	1.3
	8	Boralukand junction Uda Beragama to Mahaa Ara junction	3.2
	9	4 Ela – School Road	1.5
	10	Boondala – Meda Para	1.4
	11	Boralu kanda Cooperative to Boralukanda handiya (Laksiri Road)	0.7
	12	Godawaya junction to Temple Road	1.6
	13	Manchgawa layma handiya	0.4
	15	Nadigamvila Vijiithapura Road	4.2
	16	Sabapathikade – Gonamuwa Hospital Road	1.9
	17	Ikkapallama School Road	1.9
	18	Diya bediya Road	1.3
	19	Weeravila Ara 1st Crossroad	1.2
	20	Ittan wewa 2nd Crossroad	0.7
	21	Piyapala Mawatha	2.1
	22	Uswewa – Binkama Road	15.1
	23	Dambarella Coop – Kanabandi Area	4.5
	24	Gajanayakagama Debokkawa Junction – Gajanayakagama Junction	2.0
	25	Uswewa via Pahalagama Sooriya Pokuna Junction	5.2
	26	Eraminiyaya – Hadunkatuwa	5.1
	27	Thuduwa mulla – Habarakathawala Goda Koggalla Road	5.9
	28	Hathagala handiya – Deniya Pingama to Athbatuwa to Hadunkatuwa Gamralagama Handiya	9.5
	29	Ridiyagama Livestock farm to Gangawalana Road	6.1
	30	Ridiyagama-Kahabodawila – Thuduwa mulla Road	6.5
	31	Thorakolayaya – Gammaimpara	3.0
	32	Welipitiya Ambagasara via Siyarapitiya	8.8
	33	Pattiyapola – Marakolliya	3.3
	34	Kadurupokuna – Seenimodara Road	2.6
	35	Pattiyapola – Akkarawela Thalunna	4.0
	37	Ela Banteka Para	3.6
	38	Bariyar junction to Galwadiya 4th mile post	2.6
	39	Warapitiya Hospital to Karadeniya Road	3.1
	40	School to Ela Banteka Para	2.0
	41	Pallekanda junction Udahatana Gambaddala	1.1
	42	Sumihirigama Co-Op city – Kukula Mandiya Hena Mahamadiththa	1.9
	43	Kadigamauwa Palamkada to Ekamuthu Mawatta to Batalawatta	5.7

District	Serial No.	Road Name	Length (km)
	44	Gonadenihena Kanda via Rajapaksha Mawatha	1.1
	45	Kakunayaya Market to Bhuweliara Road	1.0
	46	Maregawa Road	0.8
	47	Kudabibula Lidagawa Road	1.0
	48	Okandayaya Paluwatta Road	1.5
	49	Gonadeniya – Kaluwagaha yaya – Talawa	5.2
	50	Perahara Mawatha – Mulkirigala School	3.2
	51	Katuwewa to Mulgirigala School Road	2.8
	52	Watarauma Road	2.8
Total (C.3)			155.2

TRANCHE 2: ROAD LIST (CATEGORY BASED)**CENTRAL PROVINCE****A. National Road**

District	Road ID	Road Name	Length (km)
Kandy		Mawanella (98.81 km) to Peradeniya (109.28 km)	10.47
		Peradeniya to Katugastota	9.99
		Katugastota (0 km) to Galagedara (16.34 km)	16.34
Total (A)			36.80

B. Provincial Road

District	Road ID	Road Name	Length (km)
Mathale	56	Beeridewala to Walawela and Muduna via Dullawa junction	5.30
	32	Medakanda Maraka Road	6.20
	16	Kosgolla Adawela Road via Kuballoluwa Magallewa	8.40
	10	Bodhikotuwa junction to Hoagolla bridge road	6.00
	47	Kaduvela to Pujagoda Gama Meda Road	2.90
	18	Dambuluoya Junction to Kalundewa Road	7.70
	25	Pelwehara Randeniya Bulagala Road	4.10
	53	Dabuyaya Dambagolla Road	4.10
	52	Akuramboda Temple to Koswatta Road	1.00
Kandy	2	Medamahanuwara town – Kandekumbura Road (Retiyagama bus stand) via Metideniya	7.80
	3	Werapitiya Road, Dunhinna Junction – Makuldeniya Road (Makuldeniya Junction) via Waradiwela	5.15
	4-A	Iskolamuduna Junction – Hiloya Road (Watagala Road) via Podadalgoda	4.40
	21	Angamma Nikathenna Road	1.30
	41	Wattegama, Pinnalanda Junction – Thunkandura Junction via Puwakgahadeniya	4.90
	10	Delthota town – Gabadagama Road	7.40
	11	Maussawa – Kolambissa Junction	3.70
	36	Parana Polonnaruwa	7.20
	32	Madugalla Kalawala Road	3.45
	43	Digana Ambakotte Road	4.40
	44	Sirimalwatta Nattarampotta Road	2.70
	45	Manikkahinna (Pitiye Dewalaya) Galaluwa Road	1.30
	46	Gagasiriwatta Polgolla Road	2.60
	47	Digana Aluthwatta Road (Aluthwatta No. 10 Junction) – Parana Gagapitiya Road	2.60
	12	Kobbekaduwa Gamamedia Road	2.00
	13	Dodamwala Dewalaya – Wathurakumbura Road via Greppitiya temple	2.70
	14	Siyambalagoda – Omandel Sikurapotha Road	3.00
	16	Galpaya, Thelihunna Colony via Kurunduwatta New Town Pellapitiya Colony	8.20
	26	Udaiguruwatta Road to Wewathenna Road	3.40
	27	Manikkawa Junction to Gonadhikawatta Road	6.80

District	Road ID	Road Name	Length (km)
Nuwara-Eliya	29	Pamunuwa Daliwala Mugatiyapola Road	2.30
	30	Pamunuwa Junction – Elugoda Road	1.90
	7	Gurudeniya – Dambawela Bus Stand	0.75
	39	Hatharaliyadda, Rambukkana Main Road to Dedunupitiya Post Office to Weniwella Road via Kalotuwawa	12.00
	49A	Vilana Pallegama – Watagoda Burton Watta	2.05
	33	Htiyegama Udapolgahawaththa Minuwandeniya Road	8.0
	41	Welioya Shanon Road	9.5
	47	Pallewaththa Dagampitiya Road	7.0
	4	Udupussellawa – Kurupanawela – Meepanawa Road	7.0
	7	Adikarigama – Ambewela – Merimount Road	4.6
	8	Rikillagaskada – Dimbulkumbura Road	5.5
	11	Rikillagaskada – Hapuwela Road	5.0
	30	Kothmale Dam Viewpoint to Kotagepitiya road	3.0
	36	Beramana Udagama Madakubura Road	4.0
	37	Katugolla Hunugaloya Nawathispana Road	2.6
	43	Hapugasthalawa Halgolla Road	5.0
	44	Nawathispane Harangala Road	3.0
Total (B)			213.9

C.1 Rural Road – Mathale District

District	Road ID	Road Name	Length (km)
Mathale	2	Ratalawewa Junction to Nikagolla Road via Kottagolla	1.60
	3	Mathalapitiya Rathninda Thuththiripitiya Atipola Dullawa via Walawela Aluthgama Road	12.00
	4	Yatawatta Mathalapitiya Road to Kurunegala Matale Road via Idangama Alutwatta Walpola & Maligathenna	5.00
	5	Yatawatta Mahawela Road to Pathingaskotuwa Kurunagala on Yatawatta Road via Nikagolla North	2.00
	35	Madawela Junction to Nalanda Industrials Zone	2.50
	36	Ellepola Kalupalama to Hilton Janapadaya Road	1.00
	38	Kanangamuwa Parawatta Road	2.80
	27	Bobella Bibila Road	1.50
	40	Kanamulayaya Rubber watta via Police Station Road	2.50
	41	Meegolla Deewara Gammanaya Road	1.20
	42	Gedige Junction to Hapugasyaya Tamil Village via Ududeniya Road	3.00
	39	Bibila Murutholuwa Road	1.70
	29	Weeragolla Munamalpitiya via Moragaha Ulpatha Road	2.80
	33	Malgammana Gangeyaya Road	2.50
	28	Lewiyangala Junction to Weheragala via Himbiliyakada Road	4.20
	30	Nagolla Amuneyaya via Godaulpoyha Weheragala Road	4.60
	31	Alikanda cemetery via Kaduruvediya Ela Road	3.30
	34	Hadungamuwa Kumbukoya Road	4.10
	17	Koongahamula Eriyagolla Rosawaththa via Hapugasipitiya Hunuketa Ela Matihakka Road	1.00
	43	Kosgolla Muduna to Loluwela Junction via Imbulgolla	6.00
	44	Mahalakotuwa to Meda Ela via Raththinda Junction	2.00

District	Road ID	Road Name	Length (km)
	6	Uda Hapuwida Junction to Leliambe Junction Road	3.30
	7	Polwaththakanda to Kaudagamma Road	4.20
	8	Madakumbura to Udathenna Road (Riveston Road)	1.40
	9	Udahapuwida Keselwaththa Road	1.00
	11	Kambiadiya to Kandenuwara via Bogambara	9.00
	12	Dombagoda Pahala Hapuwida	2.90
	13	Udaweragama Thennewatta Gansarapola Road	5.60
	15	Hulangamuwa Junction to Watagoda Road	2.70
	14	Kaikawela Temple to Pahala Owela Punchikade Main Road	4.00
	45	Ovilikanda to Babaragahakanda Road via Wademada Pathingolla	4.80
	46	Rathwatta to Elkaduwa Road via Wawugammadda	2.00
	20	Kapuwatta Akkara Seeya Yapagama Road	3.80
	22	Kandalama Rotawewa Road	4.80
	24	Sisirawatta Bulanwala Athuparayaya Dambulla Town Road	5.80
	19	Kapuwatta Yapagama Road	3.40
	23	Thiththawelgolla Rathmalgaha Ela Road	6.70
	21	Yapagama Dambulla Pola Ate Ela Batuyaya via Diddeniya Kade Road	6.10
	49	Walaswewa Main Road	1.60
	50	Galapaula Damunumulla Road	3.30
	55	Damunumulla Yatigalpoththa Road	2.10
	54	Ambokka Dewalaya Road	2.50
Total (C.1)			148.30

C.2 Rural Road – Kandy District

District	Road ID	Road Name	Length (km)
Kandy	1	Bambaragahadeniya Junction – Madamahanuwara via Meeriyagolla	7.00
	4	Bambaragala Junction – Nithulemada Bus Stand, Nithulmada Main Road via Senarathwela	6.30
	42	Pitiyegedara Junction – Polgolla 6th mile post via Meegamawatta	5.75
	9	Haththana, Uduwela watta – Galaha town via Galahawatta, Kithulgolla	9.70
	53	Nugethenna to Kewulgama Pamunuwella Ganegala Road	5.80
	15	Pottapitiya 4th mile post Udarameewala	2.55
	17	Yatapana Boswod Road	4.40
	19	Aluthgama Centre Village Road	2.70
	20	Dekinda, Weralugolla Road	2.65
	18	Nawalapitiya – Udakanda Bus Stand via Veralugashinna, Weligodawatta	7.55
	23	Pussellawa Melfret Boment Kalugala Wanahapuwa via Dunukeula Road	7.10
	24	Panvilathenna Junction – Legumdeniya Main Road via Robert Nocks Gala Pussathenna	3.70
	25	Boralu Mankada Junction – Millagahamulla Junction via Grohil Road Angamma Drate Kahawatta	8.00
	28	Viharagama – Watadeniya Road via Appallagoda	1.90
	5	Ogastawatta Wagirarama Road – Udaperadeniya Road	2.95
	6	Mahakanda Junction Mobre Samadi Mawatta via Sarasavigama Road	3.45
	8	Dambawela Road, Kandy Thalathuoya via Govi Janapadaya	1.00
	37	Hatharaliyadda, Mahanuware Main Road, cross Junction to Galagedara	3.75

	Minigamuwa Main Road via Polwatta Ihalagama	
38	Poththapitiya Weligodapola Main Road to Patapola Post Office via Alagalla primary school	2.60
40	Harataliyadda Mawathagama Main Road to Anludeniya school to Paragoda Gonathenna Road	4.45
48	Karaduwwala Gatathale Road	2.85
49	Bokkawala Pahala Higulwala via Miliyedda Road	7.80
50	Poojapitiya, Dodamthanna, Bothota, Antharagama, Pattiyawatta via Rajapihilla Road	6.95
51	Kasawatta Poojapitiya Road	2.55
52	Malwanahinna Nirella via Main Road	3.55
Total (C.2)		117.00

C.3 Rural Road – Nuwara-Eliya District

District	Road ID	Road Name	Length (km)
Nuwara-Eliya	16	Uwakele Estate Road	4.80
	18	Pilot Project Road	1.00
	19	Piduruthalagala Farm Road	1.50
	20	Kantha Govipola & Ranaviru Gammana Road	1.35
	21	Meepilimana Gamamedda Road	3.00
	23	Thalawakele Galkanda Road	4.00
	24	Rahanwatta Maussaella Road	4.00
	26	Kandapola KonkoRoadia Road	1.95
	28	Kandapola Heatherset Estate Road	1.00
	29	Nanuoya Udaradella Road	6.60
	32	Henfold Couleena Estate Road	2.60
	34	Tillary Tinsing Road	4.00
	38	Stockhome lower Gruden Road	3.20
	40	Waladola Mare Road	4.00
	42	Wencher State Road	3.80
	46	Ginigathhena Dehigasthenna Ellauda Road	6.50
	48	Ginigathhena School Road	1.00
	49	Abagamuwa Shilalekana Road	1.30
	1	Ambagaspitiya – Ladupita – Liyanwela	5.00
	2	Ragala Water Board – Ekagapura Road	4.30
	3	Ragala Starpet – Panditha Kumbura – Kotambe Road	10.00
	5	Delmar – Galkadapathana – Rupaha Road	5.00
	6	Walapone Hospital Road	2.20
	10	Mahauva – Highforest Road	14.40
	15	Keenagala Estate Road	2.00
	9	Karaliyadda Village Road via Gonagantenna Hospital	2.00
	12	Ambaliyadda – Ihala Kotape – Rikillagaskada Road	7.60
	13	Pallebowala – Medagama – Deltota	2.00
	17	Lower Pundaluoya to upper Shingama Road	2.20
	31	Connecting Road to Halpola	1.50
	45	Hapugasthalawa Dabagala Road	2.00
Total (C.3)			115.8

NORTH CENTRAL PROVINCE**A. National Road**

District	Road ID	Road Name	Length (km)
Anuradhapura	67	Kalawewa Aukana Road	4.60
		Marathakadawela – Habarana Road	25.00
Total (A)			29.60

B. Provincial Road

District	Road ID	Road Name	Length (km)
Anuradhapura	1	Thalawa – Jayagaga 149 Hagurankethagama	10.30
	2	Eppawala Police Junction Jaya Ganga Rotawewa	3.00
	47	Thambuththegama Rajanganaya Road	17.80
	48	Ayuruwedic Hospital Nawagattegama Road	4.10
	49	Eriyagama Paindakulama Road	6.20
	66	Thammennawa Junction Kumbukwewa Siyanbalawewa Hunupalagama Road	11.00
	36	Yaya 4 junction Bogas Handiya Kiralapetiya Halambewewa Road	11.00
	37	Maningamuwa Junction Ihala Oyamaduwawa Nawodagama Road	13.00
	46	Nagasena Mawatha	2.00
	61	9 Ela Janahitha Junction 7 Ela Thuruwila	4.90
	63	Rathmale Nachchaduwa	2.80
	13	Mahakanadarawa Thabowa Pansala Junction to Welioya Junction	4.00
	14	Ihalagama Junction Muslim Diulwewa	7.30
	15	Pihibiyagollewa 9th Post Ambagahawewa Road	5.90
	24	Palugaswewa Mahakekirawa Road	9.50
	27	Kudawatagala Dambuluhamillewa Road	9.55
	30	Galkulama Sivalakulama Yakalla Road	7.90
	31	Kahatagasdigiliya Kainattama Road	12.80
	34	Kapugollewa Maradanmaduwawa Wagollewa Road	4.20
	60	A-9 Road Labunoruwa Muriyakadawala Road	18.70
	7	Mahakanadarawa left bank Elakanda Road	5.50
	9	Welankulama Junction Alappamkulama Road	7.70
	70	Katukeliyawa Ihala Halmillewa Sivalakulama Road	5.70
	16	A9 Karapikkada Kurukkandegama Kebithigollewa	6.00
	17	Puhudiula Junction to Galkadawala Road	3.80
	18	Kirigalwewa Unagaswewa Moragoda School Road	4.90
Polonnaruwa	24	Hinguragoda 7th mile post – Gallamuna – Hinguradamana	4.10
	25	Weerapura 317 – Karathakada Junction	4.00
	27	BOP 317 – Dalpalama	1.30
	28	BOP 316 – Karuwelagas Junction – Chandanapokuna	3.05
	35	Kusumpokuna – Pimpara Junction	3.00
	36	Pimpara Pansalgoda Main Road – Sansungama 21 Division	1.30
	37	Meegaswewa – Wadigawewa	3.00
	11	Athumalpitiya Junction – Laxauyana Siyambalagas Junction	4.70
	13	Kalagala – Angammedilla Village Road	5.10

District	Road ID	Road Name	Length (km)
	18	Parakum Uyana D1 Uthuru Ela	4.50
	57	Welikanda – Singapura Road	12.00
	58	Athugala – Katuwavilla	5.00
	59	Gnithamana – Nilumwewa	2.00
	61	Mahadamanawewa – Village Road	3.00
	62	Dimbulagala Junction – Bogaswewa	6.10
	64	Mannempityiya Hospital Road	1.20
	66	Sripura Nuwaragala Village Road	9.20
Total (B)			272.10

C.1 Rural Road – Anuradhapura District

District	Road ID	Road Name	Length (km)
Anuradhapura	3	15 kanuwa – Kiriamunukole – Mawathawewa	2.60
	10	Mahaweliethenna Ralapana Janapadaya Road	5.20
	12	Pahalamaragahawewa Katupathwewa	3.00
	38	4 Ela Junction Mankadawala Jaffna Road	4.40
	39	4 Ela Junction Parasangaswewa Hospital Road	4.40
	40	Saliya Mawatha Thannayakulama Road	2.30
	41	Sucharithagama Yahalegama Temple Road	4.50
	43	CEB Depot Pahala Keerikkulama – Keerikkulama Nachchaduwa Road	3.40
	45	Abeyapura housing scheme to Thammennapura	3.10
	65	Nelubewa Bidunkada Samanala Para	3.00
	19	Elagamuwa Junction Canal Road Horapola New Mosque Road	2.85
	23	Dabawatana Road	3.90
	25	Laksirigama Puwakpitiya Kudarambewa Road	6.70
	71	Palugaswewa – Udakadawala	1.70
	26	Balaluwewa Karawilagala Road	4.20
	28	Ulpthagama Junction Moroththegama Road	4.90
	29	Yakalla Palugollagama Upuldeniya Road	12.20
	32	Rathmalgahawewa Road Kurukkuragama Junction to Hettikattiya Road	7.00
	33	Elapathwewa Ritigahawewa Road	3.80
	35	Nanumillewa Junction to Vilewewa Road	2.50
	68	6 Ela Walpaluwa to Kagama 2 Ela Road	3.60
	69	Mahailuppallama Farm Akkara 100 to Senapura Katiyawa Road	3.90
	5	Matale Junction Samagipura Road	2.50
	6	Kurundankaulama School via Kalaththewa Matale Junction Road	2.80
	8	Kannattiya Ashokapura Road	2.50
	50	40 Kolaniya Bus Halt Nawagammanaya Road	2.40
	51	Thelmola Junction Milankulama AB Gammanaya Puhulagewewa Balaya Junction Road	2.10
	52	Mailagashandiya Daluggala Jayanthi Road	3.30
	53	Ruwanpura School Road	1.00

District	Road ID	Road Name	Length (km)
	55	Kobbekaduwa Road	2.00
	56	4th Post Thonigala Bridge Road	1.80
	57	Kanugahawewa Herathhalmillewa Road	8.80
	59	Halmillawatiya Yakawewa Road	3.50
Total (C.1)			125.85

C.2 Rural Road – Polonnaruwa District

District	Road ID	Road Name	Length (km)
Polonnaruwa	1	Ihekuluwewa Village Road	3.5
	2	Gange Yaya Village Road	3.5
	3	Athanakadawela – Pokunugala	3.2
	4	Velank Kattuwa Road	1.95
	5	Sarubima – Segala	2
	6	Bakamuna – Damanayaya housing scheme Road	2.15
	7	Srikanduyaya Main Road – Track 18	2.1
	8	Orubendisiyambalawa Road	1.75
	9	Bisokotuwa – Koonthuruwawa	1.75
	10	Yaya 32 Temple – 33 Bisokotuwa Junction	3.25
	45	Minnerya Cetral College Road	3.2
	46	Hathamuna Bridge – Nugaga Daman Road	3.5
	47	Dora Theka Junction – Paluwewa	1.75
	48	Grithala Middle Road	1.4
	49	Hinguragoda Airport – Viddiyaloga School Road	1.7
	51	Batukotuwa Middle Road	1.1
	52	Minneriya – Samagipura	2.3
	55	Hinguraka 4th Post – 48 Village Chandanapokuna Aliwankuwa	4.95
	29	Patunugama Junction – Damwelamangada – Buthayaya	3
	31	Kumbukkanaruwa – 127 Bawdarthagama	1.5
	72	Deberella Sudupalama – Gallamuna	5
	33	Track 12 Bridge – Nagarapura – Weligampura	7
	34	Uthaganawa Irrigation Junction – Dinisuru Junction	3
	40	Medrigriya Town Internal Road	2.1
	41	Jayathugama Junction – Meegollawa School	3
	42	Medrigriya Water tank – Mr. Vijeyadasa's house	2
	43	Jayathugama Junction – Meegollawa Keethiyawijaya Stores	2
	44	Kalagedi Palama – Visobadaragama School	2.5
	73	Diulankadawela Aliwankuwa Junction	3.3
	12	Palugasdaman Senanayaka Road	1.2
	14	Kadawela Wewa Road Stage – 01	1.8
	20	Onagama main Road – Galkoriya Cemetry	3
	21	Parakirama Samuthraya – Ambanganga Temple	2.4
	22	Parakirama Samuthraya Bodhiya – Right Chanel Temple	1.6

65	2nd mile post – Seelapura	1.45
67	Aluthoya Junction – Village End	1.95
68	Dimbulagala Junction – Soruwila	1.6
71	Bandanagala bandanagala village	3
Total (C.2)		97.45

NORTH WESTERN PROVINCE**A. National Road**

District	Road ID	Road Name	Length (km)
Kurunegala		Galagedara to Kurunegala	21.79
Total (A)			21.79

B.1 Provincial Road – Kurunegala District

District	Road ID	Road Name	Length (km)
Kurunegala	30	Talgahapitiya Junction to Walrawa Road	5.50
	32	Kaduruwewa School to Wallawewa School Road	2.60
	34	Meladeniya Junction Udawela Kakiriyamdiththa, Ganegoda to Ambawewa Road	8.90
	76	Kamburapola Junction to Pahalagamuwa, Nindawela Road	5.00
	82	Nagollagoda, Ahetumulla, Higuregama Temple Road	4.60
	47	Bihalpola Muthugala Road	10.10
	48	Ihalamuluthangala to Korale Junction Road	3.70
	50	Katupotha, Dalupothagama, Thoranegedara, Kirimatiyawa Road	6.50
	55	Kosgahamula Junction to Damdeniya Road	5.10
	56	Elabadagama, Bummana, Kadirapola, Labbala via Nigambo Kurunegala Road	10.80
	57	Jayagama kete Junction to Nabirittankadawara via Walipennagahamulla Road	6.30
	58	Eliwila, Daraluwa via Yakwila Road	8.10
	59	Nendalagamuwa Aurweda Junction to Ninuwangamuwa Walakumburumulla Road	5.20
	1	Boyawalana Nawathalwatta Wewwala School Road across Habaralagasinn Madurupitiya Road	11.50
	41	Hodalla, Polpitiya, Dambagolla, Kandahena Road	6.20
	43	Panaliya Relwey gate to Pillwatta Road	5.10
	45	Piduruwella, Sandagala, Weherabanda Road	5.90
	46	Pambe, Lokahettiya, Ranawala Gedara Road	6.60
	68	Malpitiya Junction to Bogamuwa Junction Theeragama Road (Katupitiya Rabukkana Road)	7.20
	71	Colombo Road Narammala Kurunegala Main Road Kubalpola Junction Hal para (Colombo Road to Kurunegala Road)	4.40
	17	Wataraka Junction to Uda Iguruwaththa via Kudumiriya Road	6.40
	20	Belgodakanda, Muwankanda, Katawala Bolgodakanda, Kosgolla Road	5.00
	39	Mirissala, Egodamulla Mahawela Junction Road	6.50
	84	Miliyadda-Ikiriwaththya Bokkawala Road	6.00
	40	Delvita, Kithulgolla, Dunumawa Mirissala Road	6.70
	22	Nabirithhawewa Junction to Hunupola, Siradunna via Pannala, Welebant Road, Ganewatta, AG Division	25.10
	23	Bannaggama Junction via Nalawa Road	14.90
	62	Werella Junction to Naramana, Thambarawa Road	5.00
	66	Mahakeliya Randeniya Junction to Randeniya, Wellagal Road	3.90
	26	Padeniya Kobeigane Road	11.10
	27	Palugolla Iginimitiya Road (Aluthgama Kotawehera Road)	11.00
	29	Kurikulama Junction to Kadigawa across Subasinghepura across Magurankadawala Road	11.20
	8	Giribawa Warawewa to Sandagala Road	9.90
Total (B.1)			252.00

District	Road ID	Road Name	Length (km)
Kurunegala	33	Karulla, Horathapola Kibulkotumulla via Haliyagara Road	6.70
	36	Kmbukgahamulla Central College Mawatha	1.50
	77	Hunugama Junction to Nallur Junction	6.60
	80	Near the Paduwasnuwara Temple Moragolla sanasa to Pagahawela school, Medagama Aranya senasana road	4.90
	79	Madulla Junction to Ihalagama Road	4.50
	97	Hidiyamulla Junction to Guruthippala Junction	4.50
	98	Magulagama Junction to Ambagahalanda Mohothhawagoda Junction	4.50
	99	Wilbagedara Junction to Dunupotha Rathmalla Junction Road	4.30
	81	Mawee ela Junction to Thelibewa Temple via Ilukpitiya Junction	7.70
	83	Kajuwatta Junction to Koonwewa ,Balagolla Road	6.10
	49	Nakkawattha, Temple Road, Kaballa Road	2.20
	86	Horambawa Mawee Ela Road	6.40
	2	Paramaulla to Morugama Across Bujjomuwa Road	3.50
	4	6th mile post, Thumbulla Road	2.50
	100	Humbuluwa Henahundeniya via Ambowa wanathal waththa hospital Road	4.50
	101	Alawwa horokgasdeniya Road	1.00
	5	Dampelessa Dostarawatta Acroos Welikumburawatta Road	3.90
	102	Pahala medagoda welikuburawaththa Road	3.00
	70	Porapola Junction to Talvita Siradunna Junction Road	7.40
	74	Wawa gedara Ranaviru School to Klohogedara via Yanthampalawa Junction	2.80
	75	Minhettiya Baddegama Kelimune Junction Road	3.60
	37	Kiribathgalla Road	3.30
	38	Palle Horombuwa Ginihiriya Margaya Road	7.80
	87	Hiripitiya Aluthgama Kalawana Road	5.80
	89	Hakwatuna Oya Bridge to Rathmale Road via Dagellagama kalawana	4.50
	61	Rambawewa Junction to Ambakadawara, Hettigedara via Mirihanagama Road	5.4
	65	Wariyapola to Amunugama, Malasma, Goluwawa Road	3.50
	67	Jarman Junction to Nnawagatta Yatikadurawa, Ketapatwehera, Thembilipolgaha Junction	5.10
	28	Kurunegala Puttalam, Kunuketiya Junction to Malpanawa across Rasanayakapiura	9.60
	24	Gangoda Road (Jayalanka trade centre to court complex via Budumuththawa Temple)	1.50
	90	Iginimitiya to Wannikudawewa Road via Nanneriya junction	15.00
	91	Paluwewa Junction to Giribawa via Ussana Road	6.20
	92	Wathuwaththegama to mudiyanagama via kumbukkadawala	9.90
	7	Ihalagama Junction to Nochchiya across Wannikudawewa to Road	4.60
	10	In front Atharagalla School Gurugoda Kothalawetiya Kalgama Road	6.60
	11	Kathnoru Junction to near the School Reswehera Temple Road	5.20
	12	Wilawa Junction to Kumbukwewa Road	6.90
	94	Daladagama to Nikaweratiya Ambanpola Road via Wathupalagama, Polpithigama, Waduressa	7.20
	13	Hathpokuna Galkatayagama across Millagoda Road	9.40
	14	Madahapola Mahayaya Madahapola Road	8.30
	95	Makulpotha to Henawa	3.20
	16	Nelumpathwewa Udadiulwewa Road	7.60
	96	Kasikote Junction to Meeoya Bridge via Peella	4.30
Total (C.1)			233.00

B.2 Provincial Road – Puttalam District

District	Road ID	Road Name	Length (Km)
Puttalam	14	Thihali Eaththala Internal Road	3.50
	15	Kandakuda Palliwasathurei Road	7.26
	43	Thabbowa karuwalagas wewa outer circle	7.00
	4	Mahakubukkadawala Kottukachchiya Road	12.40
	26	Arachchikattuwa to Pallama via Adippala	10.95
	27	Nalladarankattuwa to Wendakaduwa via Aththanganaya	12.56
	16	Megahawila Juntion to Yakkdessawa Primery School Road	2.65
	17	Bandurawa to Maningala via Sadanangama Katuwa Goda Road	3.90
	18	Katuneriya to Marawila Road (Bech Road)	5.90
	21	Waduraba bo tree to Walahapitiya Cemetery via Muttibadivila Post Office Road	6.85
	22	Yatakalana Temple to Thabbowa Kotabagaya Road	5.15
	33	Srigampala Church to Zinnor Juntion via Aubowan Junction	2.95
	34	Weralugaha Road Balldi Junction Bandaranayake Janapadaya to Dummaladeniya Haldaduwana Road	4.80
	36	Bandirippuwa – Krimatiyana Jerad Mawatha and to end of Jaya Mawatha	2.90
	38	Dekwela Road	2.35
	39	Atiyawala Temple Road (North)	2.80
	40	Atiyawala Mohattimulla Road	3.40
	41	Kirimatiyane Varalla Watta Road (Joint to Wennappuwa Road)	2.10
	42	Morakkuliya to Dankotuwa	2.40
Total (B.2)			101.82

C.1 Rural Road – Kurunegala District

District	Road ID	Road Name	Length (km)
Kurunegala	33	Karulla, Horathapola Kibulkotumulla via Haliyagara Road	6.70
	36	Kmbukgahamulla Central College Mawatha	1.50
	77	Hunugama Junction to Nallur Junction	6.60
	80	Near the Paduwasnuwara Temple Moragolla sanasa to Pagahawela school, Medagama Aranya senasana road	4.90
	79	Madulla Junction to Ihalagama Road	4.50
	97	Hidiyamulla Junction to Guruthippala Junction	4.50
	98	Magulagama Junction to Ambagahalanda Mohothhawagoda Junction	4.50
	99	Wilbagedara Junction to Dunupotha Rathmalla Junction Road	4.30
	81	Mawee ela Junction to Thelibewa Temple via Ilukpitiya Junction	7.70
	83	Kajuwatta Junction to Koonwewa, Balagolla Road	6.10
	49	Nakkawattha, Temple Road, Kaballa Road	2.20
	86	Horambawa Mawee Ela Road	6.40
	2	Paramaulla to Morugama across Bujjomuwa Road	3.50
	4	6 Mile Post, Thumbulla Road	2.50
	100	Humbuluwa Henahundeniya via ambowa wanathal waththa hospital Road	4.50
	101	Alawwa horokgasdeniya Road	1.00
	5	Dampelessa Dostarawatta Acroos Welikumburawatta Road	3.90
	102	Pahala medagoda welikuburawaththa Road	3.00
	70	Porapola Junction to Talvita Siradunna Junction Road	7.40
	74	Wawa gedara Ranaviru School to Klohogedara via Yanthampalawa Junction	2.80

District	Road ID	Road Name	Length (km)
	75	Minhettiya Baddegama Kelimune junction Road	3.60
	37	Kiribathgalla Road	3.30
	38	Palle Horombuwa Ginihiriya Margaya Road	7.80
	87	Hiripitiya Aluthgama Kalawana Road	5.80
	89	Hakwatuna Oya Bridge to Rathmale Road via Dagellagama kalawana	4.50
	61	Rambawewa Junction to Ambakadawara, Hettigedara via Mirihanegama Road	5.4
	65	wariyapola to Amunugama, Malasma, Goluwawa road	3.50
	67	Jarman Junction to Nnawagatta Yatikadurawa, Ketapatwehera, Thembilipolgaha Junction	5.10
	28	Kurunegala Puttalam, Kunuketiya Junction to Malpanawa across Rasanayakapiura	9.60
	24	Gangoda Road (Jayalanka trade centre to court complex via Budumuththawa temple)	1.50
	90	Iginimitiya to Wannikudawewa road via nanneriya junction	15.00
	91	Paluwewa Junction to Giribawa via Ussana road	6.20
	92	Wathuwaththegama to mudiyanegama via kumbukkadawala	9.90
	7	Ihalagama Junction to Nochchiya across Wannikudawewa to Road	4.60
	10	In front Atharagalla School Gurugoda Kothalawetiya Kalgama Road	6.60
	11	Kathnoru Junction to near the School Reswehera Temple Road	5.20
	12	Wilawa Junction to Kumbukwewa Road	6.90
	94	Daladagama to Nikaweratiya Ambanpola Road via wathupalagama, polpithigama, waduressa	7.20
	13	Hathpokuna Galkatayagama across Millagoda Road	9.40
	14	Madahapola Mahayaya Madahapola Road	8.30
	95	Makulpotha to Henawa	3.20
	16	Nelumpathwewa Udadiulwewa Road	7.60
	96	Kasikote Junction to Meeoya Bridge via Peella	4.30
Total (C.1)			233.00

C.2 Rural Road – Puttalam District

District	Road ID	Road Name	Length (km)
Puttalam	8	Road to sirrumbiadiya 4th mile post to Anuradhapura Road 6th mile post via Manaweriya and Sellakandal area	7.30
	9	Madyama Attavilluwa to Kiwla Road	3.67
	11	Wanathawilluwa 12 mile post to Morapathawa school road	7.05
	12	Eluwankulama to Gangewadiya	7.17
	13	Paalasola Junction to Mukkuthoduwwa via Paalasola Pradana Mawatha 100Acs State	6.15
	1	Mahaus wewa – Waththegedara – Thalgaswewa	12.20
	2	Mellankulama Junction – Near Hospital to Kottukachchiya village	6.00
	5	Welewawa garment junction – Tharanagaha wawa-Rajawegama road	12.25
	6	Internal Road at Nawagaththegama – Galgamuwa Main Road	3.00
	7	Saliya wewa junction to Neela bemma Road	13.00
	44	Mailankulama Tabbowa Temple Junction	13.00
	45	Mahakubukkadawala Hospital Road	1.76
	3	Adammana Junction – Medawakkulama Road	9.50
	28	E/Mungandaluwa Raraviru Lanka thilaka Mawatha to Karavita Temple	2.00
	29	Thiththakade to Manuwangama via Thissogama cooperative shop	5.38

District	Road ID	Road Name	Length (km)
	30	Karavitagara Juntion to Kongasyaya Road via Dabakale Road	3.10
	31	Madampe Ihalagama Road	1.75
	32	Suduwalla Juntion to Mukunuwatawana Road	2.40
	24	Gurugodalla to Kuliypitiya Nattandiya Main Road	1.50
Total (C.2)			118.18

SABARAGAMUWA PROVINCE

A. National Road

District	Road ID	Road Name	Length (km)
Kegalle		Warakapola (55.68 km) to Mawanella (98.81 km)	43.13
Total (A)			43.13

B.1 Provincial Road – Kegalle District

District	Road ID	Road Name	Length (km)
Kegalle	1	Theligama – Ganepalle	1.80
	3	Nawata – Parussella	2.00
	5	Batakitta – Mahabge	7.20
	6	Seepoth – Nagastenna	3.00
	10	Thannimale – Maharangalla	3.50
	12	Panapitiya Junction – Poonahela Panapitiya – Ambamalla	5.00
	9	Deraniyagala Hospital – Dikella/Dehiovita	8.70
	14	Warakatenna – Meegastenna	4.20
	15	Ambalanpitiya Bridge – Godagampala Junction	3.00
	16	Atulugama Junction to Kanangama Udukumbura Road Tenkiyawaththa Road	3.50
	17	Boralankada Udabage Junction to Iyalawatta Kelani River	10.50
	18	Katulanda Road	5.50
	70	Mniyamgama to Welangalla kadamandiyia	4.50
	24	Indurana – Amithirigala Road	6.80
	26	Pamankade – Mahadeniya Road	4.80
	27	Imbulana – Weddawala – Gonagaldeniya Road	5.25
	33	Arandara Dewalaya – Boyagoda – Holombuwa Road	3.90
	36	Etikeeriyagolla – Naberiyawa – Atugoda Road	5.00
	28	Molagoda (Shed) – Alulena Teample	2.60
	29	Kempitiya Muslim Palileya – Kempitiya Teample	2.50
	31	Daluggala (Junction) – Bathaburaya Playground	3.80
	51	Thuththiripitiya Junction – Wattegadara Road	4.20
	52	Thalgamuwa – Attapitiya Road	3.00
	65	Ranwala – Kahagalla – Nawagamuwa Road	3.60
Total (B.1)			107.85

B.2 Provincial Road – Rathnapura District

District	Road ID	Road Name	Length (km)
Rathnapura	13	Galabada – Ratganga Temple – Kudawa – Mapalana via Palabaddala Road	16.9
	11	Kuruwita via Erathna to Kendalanda Road (Kuruwita to Dearwood Tea Factory 3.2 km, Boraluwa to Kendalanda Road 3.1 km)	6.3
	12	Batatota Junction via Divaguhawa to Kalanchiwatta Road	4.0
	19	Ihalakanda Kanugalla Rukhena Hatharaanda Hena Pahalawaththa Paranagama	7.9
	19A	Bodimaluwa Pohorabawa School via Paranagama	6.4
	20	Madala Gettuwa Vithanakanda via Keenagahavila Road	6.2
	10	Weddagala – Kudawa – Wewagama Road	12.0
	7	Dumbara Manana Wathukaragama to Dumbara Kovila Main Road	7.0
	39	Nammuniyawaththa Namunutenna Gangodakanda Road	5.0
	40	Palawela – Ayagama Road	10.0
	21	Bopeththa Junction to Mawella Road	5.5
	22	Marapana Mada Handiya to Dela Road	5.0
	23	Near Dakunu Panawenna Rubber Factory to Poronuwa Road	6.2
	25	Wewelwatta – Alupola Road	5.0
	1	Ellagewaththa Junction to Gorakawela via Opatha, Makandura	7.0
	2	Palamkotta Junction to Ambalama via Nawinna Henaggegoda	10.54
	4	Badullegama to Elamalpe – Godakawela Road	2.0
	5	Kongastenna Junction to Ilukkumbura Road	4.0
	3	Hallinna Junction to Polwattahena Matihakwela Hunuwela Road	10.1
	31	Rassagala – Heramitigala – Samanalawaththa – Massenna Road	16.0
	32	Rathmalavinna – Hatharabage – Udagama – Olugantota Road	11.5
	33	Halpe – Weheragoda Road	4.0
	26	Rilladola Bogaha Asala to Amunukara Junction	5.3
	27	Amunukara Junction to Gabbela Digandala Demuwatha Road	7.8
	28	Labuwatta Junction to Pinnagolla via Hapugahawela Junction Road	1.8
	29	Elapatha Damme Junction to Damme Prajashalawa Road	3.0
	30	Sidurupitiya Junction Waththahena Pitakalaya Road	10.0
	35	From Nawaneliya Temple to Eththakanda via Nedola Road	5.7
	36	96 Junction to Panamura Road via Ranchamadama Ethgala	10.15
Total (B.2)			212.29

C.1 Rural Road – Kegalle District

District	Road ID	Road Name	Length (km)
Kegalle	4	Parussella – Ranpaumgama	3.10
	11	Bulathkohupitiya Dedugala Road 8th Bend – Kalupahana Watta	3.00
		Neluwakkana – Narangalla	
	7	Maliboda – Magala Ingiriyawatta	3.00
	19	Debegama – Kelegama – Napawala	3.25
	20	Atalawaththa Wangedimole Ela Hedungama Puhulwala Salgala Welhella	9.65
	21	Kithalangamuwa Batuwana Road	5.60
	22	Kadigamuwa – (Kiriwana Junction) Narangastenna Temple	1.20
	23	Mahalla – Troywatta – Eke Kanuwa Road	4.00
	34	Hapudeniya – Malwana	1.80
	35	Pindeniya Bridge Weliwanguwa	1.90
	37	Makuddala Ayururvedic Center – Kahatagolla Junction	3.00
	38	Imbulgala to Ambanpitiya – Kumarage Mawatha	3.60
	39	Alawattenna – Dedigama	5.00
	40	Palapoluwa – Kumbalgama	3.00
	57	Tholangamuwa – Ihalagama Gasnawa Road	1.00
	58	Algama – Dikdeniya Road (Algama Kanista Vidyalaya, Ihalagama Road)	4.00
	59	Dedigama – Veneriwaththa – Koongahamula Pitadeniya Road	3.30
	60	Dedigama – Herathgoda – Othnapitiya Road	1.80
	61	Dummaladeniya – Meneripitiya – Meerigama Road	1.25
	63	Ambepussa Dadli Senanayaka Mawatha	2.40
	30	Korahetta Meeduma Vidyalaya – Dambulla Clinic Center (Rabukkana – Dobemada Road)	2.60
	32	Deldeniya (Junction) – Randeniya	2.25
	42	Wanduragoda Temple Junction (Mawanella – Hemmathagama Road) – Aluthnuwara	1.20
	43	(Mawanella – Hemmathagama Road) Eraminigammana Temple – Thambavita – Gampola Road Junction	3.40
	44	Alpitiya – Dompitiya Magama – Ambadeniya	1.15
	45	Heendeniya – Danagama Road (Anwarama Shed) Heendeniya – Danagama Junction	3.10
	46	Road to Weganthale Saradeyal Village	2.00
	47	Keppitipola – Mahakehelwala Ihalagama – Galpotta Pasal junction – Kiriyaeteuna – Beddewela	5.30
	48	Gangoda Teample – Eke Kanuwa Mediliya Road (from Dippitiya – Hemmathagama Road, Sarath's Kade)	1.80
	71	Wdiyathenna dumabuluwawa via Walekade	2.60
	50	Dippitiya – Demalagiriya – Dooldeniya – Thalaspitiya Road	4.25
	53	Wakirigala Dispensary – Polkubura Nalgama Road	2.40
	54	Aranayaka Town – Sapumal Ambe Welanthalawa Road	2.00
	55	Yalapala – Galatara – Erawwala Road	1.80
	56	Hathgampola Vidyalaya – Elangapitiya Road	2.50
	64	Elbert Senavirathne Mawatha – Kegalle	0.85
	66	Randeniya Graselin Janapadaya – Dimbulgamuwa Road	2.10
	68	Paragammana – Dikkella – Babaradeniya Beragala Road	1.20
	69	Karadupana – Malwatta Kanda – Dewela Road	1.80
Total (C.1)			109.15

C.2 Rural Road – Rathnapura District

District	Road ID	Road Name	Length (km)
Rathnapura	14	Near Saman Dewalaya Kataliyanpall – New Town up to Muttetu Pita via Price College (Section A)	4.25
	16	Mahingoda Viyalagoda via Puwakgahadeniya Road	3.00
	17	Muruthangala Dewrumpitiya Estate via Kaluandura & Muruthangala Temple via Dewrumpitiya Road	6.00
	8	Tapaswara Kanda – Wiskamgoda Road via Karapotha Bridge	2.90
	38	Delgoda Balipola up Waturawa Road	5.20
	10A	Nikagoda – Batamandiya – Polwatta – Sisira Kade, Pibura	5.90
	33A	Gurubawila Kanawinna Road	3.00
	33B	Gurubavila Helapandeniya Gallenakanda Road	6.60
	34	Ambagahayaya Junction to 8 mile post via Mahayaya Road	5.86
Total (C.2)			42.71

WESTERN PROVINCE

A. National Road

District	Road ID	Road Name	Length (km)
Gampaha		Nittabuwa (39.71 km) to Warakapola (55.68 km)	15.97
Total (A)			15.97

B. Provincial Road

District	Road ID	Road Name	Length (km)
Kaluthara	64	Kudagonaduwa Thuduwa Road	2.45
	66	From Kalapugama Junction to Palpola Road	2.65
	53	Walallawita Uthumgama via Koopiyawatta Road	14.60
	40	Walkandala Junction to Wellatha Junction	6.00
	22	Ihala Welgama Kallumale Bulathsinhala Road	5.18
	43	Yala Junction to Werawaththa Naragala Road	4.00
Total (B)			34.88

C. Rural Road – Kaluthara District

District	Road ID	Road Name	Length (km)
Kaluthara	2	Kawatayagoda Pahala Road	2.15
	56	From Gold View Estate to end of Korosduwa Road	1.40
	57	Wilegoda Rosawatta by Road	0.90
	58	From Wijemanna Mawatha to Pushparama Road	0.95
	59	From Duwa Temple Road Vilegoda via Aluth Para	1.00
	60	Kuda Wskaduwa Estern Lintal Watta Main Road	1.80
	61	From Araliya Uyana Road to Palathota Main Road	0.95
	63	Wijayagama Road	1.00
	65	From Thibiriya Junction to Moranthuduwa Ayurweda Junction	1.50
	67	From Paraduwa Bogaha Junction to Gunagoda Road	2.05
	54	Morapitiya New Road to 1st mile post via Rankoth mawatha	4.60
	5	From Addaragoda Weepalla Road via Wedigoda	6.50
	6	Athwelthota Ambegoda via Bampara Road	5.00
	8	Boralugoda Thiniyawala Road	5.90
	3	Bellana Panadadukanda Road	4.00
	7	Nerihena Wewalla Yattapatha	4.30
	51	Pannila Kannangara Mw, Halwala via Galathara	4.75
	52	From Maddegama to Thalpadiwala Road across Meegahathenna (Nawalalkanda Road)	4.70
	107	Malliwatta Road via Paraigama, Elagiriya	4.90
	76	Pimbura Halowita Road	3.10
	82	Kirimetidola Kirillahendeniya via Kewitiyagala Road	2.80
	85	Dapiligoda Diyawana Road	2.70
	34	Katugahahena Hospital Road to Kosgahakanda Junction via St. George Watta	3.35
	35	Kurudippita Road (HAA Road to Meegama – Galmaththa Road)	2.65

District	Road ID	Road Name	Length (km)
	36	Mahawatta Junction to Soldarakada Junction	3.90
	37	Walipanna Junction to Rameeya Junction Road	2.10
	39	Bodhiyakanda Junction to Mulatiyana Road	2.61
	10	Wellahandiya Main Road Lomant Watta Galketiya via Gamagoda	2.00
	11	From Imbulagoda Road to Bolossagama	1.36
	12	From Diyagama Serupita Road to Liyanagoda Junction	1.30
	14	From Thebuwana Arappalakanda factory to Ayurweda Hospital	3.00
	15	From Wilpatha to Magurugoda via Thalliyadda Road	3.50
	68	Wilpatha Puhabugoda Akkara 18 via Puhabugoda Road	3.30
	16	Kiriberiya Mandawala Road	2.45
	86	From Fonseka Road, Soloman Road across Kaviraja Mawatha Galthude	1.75
	87	From Galthude Samagi Mawatha – Rathanagiriya Watta Road to Hirana Temple	2.15
	91	From Sri Gunarathna Road up to Pinwatta Station Road (Parallel Road to Galle Road)	3.20
	17	From Olaboduwa Main Road to Mahawatta Junction; Dehigaspiya (from Mahawatta Junction to Maharagama Horana Road)	3.75
	20	From Thalgahawila Road to Kirigala Junction, Gurugada, Munagama East Grama Niladari Division to Gurugoda Padukka Road	2.70
	21	Maragahahena Uduwa Kanishta Vidyalaya via Kananwila	3.40
	120	Korale Ima Junction via Mohottigoda Jayadada Road	5.00
	121	Thalagala Gonapala Road – Kiribathkuduwa via Ankuttawala Road	3.50
	122	Pokunuvita – Aguruwatita via Shanthi Mawatta	1.70
	30	From Ratnapura Panadura Road to Akkara 100 New Town to Sagara Palansooriya Collage Road via Batugampala	6.90
	31	Boralugoda Road to Poruwadanda Jun via Manana Sudarshanaramaya	2.82
	32	Kotigala Ju. to Karauda Village via Kurana Akkara 60 Road	4.05
	119	kadanapitiya Sawgus Junction to Degamthilaka Mawatha	2.55
	123	Ratmalgoda Veerananda Mawatta – Ratnapura Hoarana Road	2.13
	23	Polegoda Ihala Welgama Paragoda via Wadigangoda Road	9.20
	24	Ihala Kudaligama Iddagoda Road	3.90
	25	Polegoda P.S. Junction to Immilla Junction	2.15
	26	Bogahawaththa to Gallakpahala Road	2.85
	27	Halwathura (from school junction) Mugunakolahena Delmalla	4.45
	28	Niggaha Agirikanaththa via Gawaragiriya	5.05
	29	From Malwatta Junction Meegahakumbura Heenela Diwalakada Kalugala Malwattha Road	11.60
	70	Pahala Naragala Dewamulla Gangaramaya Kokhena Temple Road	2.55
	71	From Govinna Kota Road to Govinna Weralugusthotupola Road	3.00
	73	Paruthalvila Bakamunawatta Heenpandala Paragoda Road	5.50
	44	From Kandana to Ilimba Road	3.40
	45	From Ilimba junction to Ilimba Thotupola Road	3.40
	100	Thumminigoda Road (From Madurawala 458 Bus Route to Raigama Anguruwathoda Bus Route)	0.75
	109	Bellanthudawa Galkade Junction to Panadura Rathnapura Nambapana Road	2.85
	111	Atalugama Mubarak Mawath	1.30
	114	Alubomulla Batadombathudawa Retiyalagoda via Maswatta	1.50

District	Road ID	Road Name	Length (km)
	115	Arukgodā Indrasara Mawatha to (Pulungas Junction) Thimbiriya Junction	1.40
	116	Rukgaha Bus Road Retiyalagoda Belikele via Alubomulla	1.95
	9	New chattle Tamil School Road	2.85
	41	Millaniya Lenawara sidurangalaWatta via Horana	2.80
	94	Panape Ketagoda Millaniya Road	4.30
	95	Pelpola Paragasthota to Kepu Ela Road (Dhammathilaka Nahimi Mawatha)	1.90
	46	From Weragala Akkara 50Roadto Katukurudugahalanda Road	1.90
	47	Walathara – Munhena Kurudugasmulla Road	4.15
	48	Danwattagoda Kalawila Main Road	2.60
	49	Youngama Main Road	2.65
	50	Yatadola Krushikarma Junction to Ragalawela Bothaldeniya via Dewalakanda Halkandawila road	3.30
	104	Kendagahawila Wella Junction to Yatawala Pothuwila main road (near the Dola)	1.80
	105	Payagala north Galle Road to Matiyanamulla Gorakaduwa Tsunami House	2.00
Total (C)			241.12

PROCUREMENT PLAN

PROCUREMENT PLAN: TRANCHE 1

Basic Data

Project Name: Integrated Road Investment Program-Tranche 1	
Project Number: 47273-003	Approval Number: 3171
Country: Sri Lanka	Executing Agency: Ministry of Higher Education and Highways
Project Procurement Classification: Category B	Implementing Agency: Road Development Authority
Project Procurement Risk: Low	
Project Financing Amount: US\$ 118,000,000 ADB Financing: US\$ 100,000,000 Cofinancing (ADB Administered): Non-ADB Financing: US\$ 18,000,000	Project Closing Date: 31 March 2024
Date of First Procurement Plan: 3 October 2014	Date of this Procurement Plan: 5 June 2017, Version 3

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding for Goods	US\$ 1,000,000 and Above	
National Competitive Bidding for Goods	Between US\$ 100,000 and US\$ 999,999	Between US\$100,000 and US\$999,999. Beneath that stated in ICB Goods. The first NCB is subject to prior review, thereafter post review.
Shopping for Goods	Between US\$ 1 and US\$ 99,999	
International Competitive Bidding for Works	US\$ 7,500,000 and Above	US\$7,500,000 and above
National Competitive Bidding for Works	Between US\$ 100,000 and US\$ 6,499,999	Between \$100,000 and \$6,499,999. Beneath that stated for ICB works. The first NCB is subject to prior review, thereafter post review.
Shopping for Works	Up to US\$ 99,999	Up to \$99,000

Consulting Services	
Method	Comments
Quality- and Cost-Based Selection for Consulting Firm	
Individual Consultants Selection for Individual Consultant	

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Procurement Method	Review (Prior/Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
RMC-SP1	Rehabilitating and/or maintaining 61 km of national roads in Galle District	26,320,000.00	ICB	Prior	1S1E	Q1 / 2015	Prequalification of Bidders: Y Domestic Preference Applicable: N

							Advance Contracting: Y Bidding Document: Large Works Comments: As approved during project processing
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3. Consulting Services Contracts Estimated to Cost \$100,000 or More

The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
CS 11	Road Management Contracts	4,970,000.00	QCBS	Prior	Q3 / 2016	FTP	Assignment: International Quality-Cost Ratio: 90:10 Advance Contracting: N Comments: Consulting services is 100% of tot expenditure, but exclusive of taxes & duties. As approved during project processing
CS3	Output & Performance Based Contracts Specialist	300,000.00	ICS	Post	Q4 / 2017		Assignment: National Expertise: Output & Performance Based Contracts Spec Advance Contracting: N Comments: Consulting services is 100% of tot expenditure, but exclusive of taxes & duties. As approved during project processing
CS4	Road Asset Management Specialist	300,000.00	ICS	Prior	Q2 / 2017		Assignment: International Expertise: Road Asset Mgmt

							Spec Advance Contracting: N Comments: Consulting services is 100% of tot expenditure, but exclusive of taxes & duties. As approved during project processing
CS5	Capacity Development Specialist	400,000.00	ICS	Prior	Q2 / 2017		Assignment: International Expertise: Capacity Development Specialist Advance Contracting: N Comments: Consulting services is 100% of tot expenditure, but exclusive of taxes & duties. As approved during project processing

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

The following table lists smaller-value goods, works and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
None								

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
CS12	Rural Road Specialist (nat.)	90,000.00	1	ICS	Post	Q3 / 2014		Assignment: National Expertise: Rural Road Spec Advance Contracting: N Comments: Consulting services is

								100% of tot expenditure, but exclusive of taxes & duties. As approved during project processing
CS14	Contract & Claim Specialist (nat.)	40,000.00	1	ICS	Post	Q3 / 2015		Assignment: National Expertise: Contract & Claim Specialist Comments: Proposed during project administration

B. Indicative List of Packages Required Under the Project

The following table provides an indicative list of goods, works and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Comments
None							

Consulting Services							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Recruitment Method	Review (Prior/Post)	Type of Proposal	Comments
None							

C. List of Awarded and On-going, and Completed Contracts

The following tables list the awarded and on-going contracts, and completed contracts.

1. Awarded and Ongoing Contracts

Goods and Works							
Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
RDA/ADB/Iroad (SP)/ICB/C P/RR(G2)	Rehabilitation / Improvements of 63 Km of Rural Roads in the Galle District – Contract 2 including Performance Based maintenance for three years.	11,210,000.00	11,410,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created

RDA/ADB/Iroad (SP)/ICB/C P/RR(M3)	Rehabilitation / Improvements of 56 Km of Rural Roads in the Matara District – Contract 3 including	9,280,000.00	9,290,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(H2)	Rehabilitation / Improvements of 60 Km of Rural Roads in the Hambantota District – Contract 2 including	9,230,000.00	9,310,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(G1)	Rehabilitation / Improvements of 65 Km of Rural Roads in the Galle District – Contract 1 including Performance Based maintenance for three years.	10,600,000.00	11,220,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(H3)	Rehabilitation / Improvements of 65 Km of Rural Roads in the Hambantota District - Contract 3 including Performance Based maintenance for three years.	7,380,000.00	8,090,000.00	ICB	Q3 / 2014	09-JAN-15	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(M2)	Rehabilitation / Improvements of 66 Km of Rural Roads in the Matara District – Contract 2 including Performance Based maintenance for three years.	13,550,000.00	13,870,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(H1)	Rehabilitation / Improvements of 72 Km of Rural Roads in the Hambantota District – Contract 1 including	12,990,000.00	12,180,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C P/RR(G3)	Rehabilitation / Improvements of 74 Km of Rural Roads in the Galle District – Contract 3 including Performance Based maintenance for three years.	12,640,000.00	13,330,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created
RDA/ADB/Iroad (SP)/ICB/C	Rehabilitation / Improvements of 98 Km of Rural	18,380,000.00	17,810,000.00	ICB	Q3 / 2014	15-DEC-14	PCSS created

P/RR(M1)	Roads in the Matara District – Contract 1 including Performance Based maintenance for three years.						
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Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
CS1	Consulting Provinces for the Project Implementation including construction supervision, contract management and other implementation activities in Southern Province (PIC 01)	4,150,000.00	3,250,419.86	QCBS	Q3 / 2014	29-APR-15	PCSS created
CS9	Consulting Services for the Project Implementation including Construction Supervision, Contract Management and other implementation activities in North Western and North Central Provinces -PIC 02	6,300,000.00	4,109,180.52	QCBS	Q3 / 2014	03-JUL-15	PCSS created
CS 10	Consulting Services for the Project Implementation including Construction Supervision, Contract Management and other implementation activities in Sabaragamuwa Provinces, Central Province and Kaluthara District -PIC 03	4,650,000.00	5,563,492.22	QCBS	Q3 / 2014	09-NOV-15	PCSS created
CS2	Institutional Specialist	450,000.00	162,000.00	ICS	Q3 / 2014	11-SEP-14	PCSS created
CS8	Information Technology Specialist	140,000.00	25,968.00	ICS	Q3 / 2014	25-FEB-15	PCSS created
CS13	Procurement Specialist (nat.)	70,000.00	21,500.00	ICS	Q4 / 2014	20-JAN-15	PCSS created

PROCUREMENT PLAN: TRANCHE 2

Basic Data

Project Name: Integrated Road Investment Program-Tranche 2	
Project Number: 47273-004	Approval Number: 3221
Country: Sri Lanka	Executing Agency: Ministry of Higher Education and Highways
Project Procurement Classification: Category B	Implementing Agency: Road Development Authority
Project Procurement Risk: Low	
Project Financing Amount: US\$ 119,500,000 ADB Financing: US\$ 107,000,000 Cofinancing (ADB Administered): Non-ADB Financing: US\$ 12,500,000	Project Closing Date: 31 March 2022
Date of First Procurement Plan: 11 December 2014	Date of this Procurement Plan: 6 June 2017, Version 2

A. Methods, Thresholds, Review and 18-Month Procurement Plan

1. Procurement and Consulting Methods and Thresholds

Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding for Goods	US\$ 2,000,000 and Above	
National Competitive Bidding for Goods	Between US\$ 100,001 and US\$ 1,999,999	The first NCB is subject to prior review, thereafter post review.
Shopping for Goods	Up to US\$ 100,000	
International Competitive Bidding for Works	US\$ 15,000,000 and Above	
National Competitive Bidding for Works	Between US\$ 100,001 and US\$ 14,999,999	The first NCB is subject to prior review, thereafter post review.
Shopping for Works	Up to US\$ 100,000	

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Procurement Method	Review (Prior/Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
RMC – 01	Rehabilitation and / or maintaining 70 km of National Roads in Western, Sabaragamuwa and Central Provinces	37,980,000.00	ICB	Prior	1S1E	Q4 / 2014	Prequalification of Bidders: Y Domestic Preference Applicable: N Bidding Document: Small Works Comments: Not applicable for prequalification and domestic preference/small works

RMC – 02	Rehabilitation and / or maintaining 48 km of National Roads in Central and North Western Provinces	33,840,000.00	ICB	Prior	1S1E	Q4 / 2014	Prequalification of Bidders: Y Domestic Preference Applicable: N Bidding Document: Small Works Comments: Not applicable for prequalification and domestic preference/small works
RMC - 03	Rehabilitation / Improvements of 25 km of National Road(Marathankadawala- Habarana) - A011 in North central Province	25,000,000.00	ICB	Prior	1S2E	Q2 / 2017	Prequalification of Bidders: N Domestic Preference Applicable: N Bidding Document: Large Works

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
None							

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

The following table lists smaller-value goods, works and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number	General Description	Estimated Value	Number of Contracts	Procurement Method	Review (Prior/ Post)	Bidding Procedure	Advertisement Date (quarter/year)	Comments
None								

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior/ Post)	Advertisement Date (quarter/year)	Type of Proposal	Comments
None								

B. Indicative List of Packages Required Under the Project

The following table provides an indicative list of goods, works and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review (Prior/Post)	Bidding Procedure	Comments
None							

Consulting Services							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Recruitment Method	Review (Prior/Post)	Type of Proposal	Comments
None							

C. List of Awarded and On-going, and Completed Contracts

The following tables list the awarded and on-going contracts, and completed contracts.

1. Awarded and Ongoing Contracts

Goods and Works							
Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
NW/CP-RR (KU-2)	Rehabilitation / Improvements of 100 km of Rural Roads in the Kurunegala District – Contract 2 including Performance Based Maintenance for three years.	14,990,000.00	13,997,800.76	NCB	Q4 / 2015	20-MAY-16	
NW/CP-RR (KU-5)	Rehabilitation / Improvements of 104 km of Rural Roads in the Kurunegala District - Contract 5 including Performance Based Maintenance for three years.	14,670,000.00	13,180,354.18	NCB	Q4 / 2015	20-MAY-16	
CP/CP-RR(NE2)	Rehabilitation / Improvements of 38 km of Rural Roads in the Nuwara Eliya District – Package 2 including Performance Based Maintenance for three years.	6,330,000.00	8,686,996.71	NCB	Q4 / 2014	15-JUL-15	

NC/CP-RR(P03)	Rehabilitation / Improvements of 47 km of Rural Roads in the Polannaruwa District – Contract 3 including Performance Based Maintenance for three years.	9,040,000.00	8,246,491.49	NCB	Q4 / 2015	20-MAY-16	
NC/CP-RR(P01)	Rehabilitation / Improvements of 49 km of Rural Roads in the Polannaruwa District – Contract 1 including Performance Based Maintenance for three years.	8,290,000.00	7,626,945.28	NCB	Q4 / 2015	20-MAY-16	
NW/CP-RR(PU3)	Rehabilitation / Improvements of 54 km of Rural Roads in the Puttalam District – Contract 3 including Performance Based Maintenance for three years.	8,820,000.00	8,173,141.17	NCB	Q4 / 2015	20-MAY-16	
CP/CP-RR(MA2)	Rehabilitation / Improvements of 57 km of Rural Roads in the Mathale District – Package 2 including Performance Based Maintenance for three years.	8,130,000.00	8,736,721.02	NCB	Q4 / 2014	15-JUL-15	
CP/CP-RR(MA3)	Rehabilitation / Improvements of 61 km of Rural Roads in the Mathale District – Package 3 including Performance Based Maintenance for three years.	9,210,000.00	9,848,326.91	NCB	Q4 / 2014	15-JUL-15	
SG/CP-RR(KE-3)	Rehabilitation / Improvements of 64 km of Rural Roads in the Kegalle District – Package 3 including Performance Based Maintenance for three years	9,510,000.00	1,632,455,502.54	NCB	Q3 / 2014	15-JUL-15	
CP/CP-RR(NE3)	Rehabilitation / Improvements of 65 km of Rural	10,970,000.00	14,479,443.30	NCB	Q4 / 2014	15-JUL-15	

	Roads in the Nuwara Eliya District – Package 3 including Performance Based Maintenance for three years.						
CP/CP-RR(KA-2)	Rehabilitation / Improvements of 71 km of Rural Roads in the Kandy District – Package 2 including Performance Based Maintenance for three years.	11,230,000.00	13,459,910.62	NCB	Q4 / 2014	15-JUL-15	
NW/CP-RR(PU2)	Rehabilitation / Improvements of 73 km of Rural Roads in the Puttalam District – Contract 2 including Performance Based Maintenance for three years.	10,590,000.00	9,640,548.46	NCB	Q4 / 2015	20-MAY-16	
CP/CP-RR(KA-3)	Rehabilitation / Improvements of 74 km of Rural Roads in the Kandy District – Package 3 including Performance Based Maintenance for three years.	12,520,000.00	14,669,581.02	NCB	Q4 / 2014	15-JUL-15	
NC/CP-RR(PO2)	Rehabilitation / Improvements of 74 km of Rural Roads in the Polannaruwa District – Contract 2 including Performance Based Maintenance for three years.	11,020,000.00	9,781,724.98	NCB	Q4 / 2015	20-MAY-16	
SG/CP-RR(KE-1)	Rehabilitation / Improvements of 75 km of Rural Roads in the Kegalle District – Package 1 including Performance Based Maintenance for three years.	12,610,000.00	13,799,680.21	NCB	Q3 / 2014	15-JUL-15	
CP/CP-RR(KA-1)	Rehabilitation / Improvements of 76 km of Rural Roads in the Kandy District – Package 1	10,700,000.00	12,286,834.34	NCB	Q4 / 2014	15-JUL-15	

	including Performance Based Maintenance for three years.						
CP/CP-RR(MA1)	Rehabilitation / Improvements of 76 km of Rural Roads in the Mathale District – Package 1 including Performance Based Maintenance for three years.	9,690,000.00	11,350,016.72	NCB	Q4 / 2014	15-JUL-15	
CP/CP-RR(NE1)	Rehabilitation / Improvements of 77 km of Rural Roads in the Nuwara Eliya District – Package 1 including Performance Based Maintenance for three years.	11,360,000.00	16,075,882.33	NCB	Q4 / 2014	15-JUL-15	
SG/CP-RR(KE-2)	Rehabilitation / Improvements of 78 km of Rural Roads in the Kegalle District – Package 2 including Performance Based Maintenance for three years.	11,010,000.00	1,816,999,270.80	NCB	Q3 / 2014	02-JUN-15	
SG/CP-RR(R3)	Rehabilitation / Improvements of 80 km of Rural Roads in the Ratnapura District – Package 3 including Performance Based Maintenance for three years.	12,170,000.00	14,138,773.87	NCB	Q3 / 2014	15-JUL-15	
NC/CP-RR(AP-1)	Rehabilitation / Improvements of 83 km of Rural Roads in the Anuradhapura District – Contract 1 including Performance Based Maintenance for three years.	13,010,000.00	11,127,708.27	NCB	Q4 / 2015	20-MAY-16	
SG/CP-RR(R1)	Rehabilitation / Improvements of 83 km of Rural Roads in the Ratnapura District – Package 1 including	13,140,000.00	14,146,149.15	NCB	Q3 / 2014	15-JUL-15	

	Performance Based Maintenance for three years.						
NC/CP-RR(AP-3)	Rehabilitation / Improvements of 84 km of Rural Roads in the Anuradhapura District – Contract 3 including Performance Based Maintenance for three years.	11,930,000.00	10,025,333.55	NCB	Q4 / 2015	20-MAY-16	
NW/CP-RR (KU-1)	Rehabilitation / Improvements of 85 km of Rural Roads in the Kurunegala District – Contract 1 including Performance Based Maintenance for three years.	13,470,000.00	13,217,727.07	NCB	Q4 / 2015	20-MAY-16	
WP/CP-RR (KL-2)	Rehabilitation / Improvements of 89 km of Rural Roads in the Kalutara District – Contract 2 including Performance Based Maintenance for three years.	14,120,000.00	14,120,000.00	NCB	Q4 / 2015	20-MAY-16	
SG/CP-RR(R2)	Rehabilitation / Improvements of 92 km of Rural Roads in the Ratnapura District – Package 2 including Performance Based Maintenance for three years.	13,710,000.00	16,678,283.71	NCB	Q3 / 2014	15-JUL-15	
NW/CP-RR (PU1)	Rehabilitation / Improvements of 93 km of Rural Roads in the Puttalam District – Contract 1 including Performance Based Maintenance for three years.	11,980,000.00	11,249,476.03	NCB	Q4 / 2015	05-JUL-17	
WP/CP-RR (KL-3)	Rehabilitation / Improvements of 94 km of Rural Roads in the Kalutara District – Contract 3 including Performance Based	14,820,000.00	11,984,115.83	NCB	Q4 / 2015	20-MAY-16	

	Maintenance for three years.						
WP/CP-RR (KL-1)	Rehabilitation / Improvements of 94 km of Rural Roads in the Kalutara District – Contract 1 including Performance Based Maintenance for three years.	13,790,000.00	13,150,430.77	NCB	Q4 / 2015	20-MAY-16	
NW/CP-RR (KU-4)	Rehabilitation / Improvements of 97 km of Rural Roads in the Kurunegala District – Contract 4 including Performance Based Maintenance for three years	14,990,000.00	14,044,154.06	NCB	Q4 / 2015	20-MAY-16	
NW/CP-RR (KU-3)	Rehabilitation / Improvements of 99 km of Rural Roads in the Kurunegala District – Contract 3 including Performance Based Maintenance for three years.	14,980,000.00	13,032,185.64	NCB	Q4 / 2015	20-MAY-16	
NC/CP-RR (AP-2)	Rehabilitation / Improvements of 77 km of Rural Roads in the Anuradhapura District – Contract 2 including Performance Based Maintenance for three years.	14,570,000.00	12,251,027.56	NCB	Q4 / 2015	20-MAY-16	
NC/CP-RR (AP-4)	rehabilitation / Improvements of 88 km of Rural Roads in the Anuradhapura District - Contract 4 including Performance Based Maintenance for three years	13,500,000.00	10,780,155.30	NCB	Q4 / 2015	20-MAY-16	

Consulting Services

Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award	Comments
None							

D. National Competitive Bidding

A. Regulation and Reference Documents

1. The procedures to be followed for national competitive bidding shall conform to the provisions prescribed in the *Procurement Guidelines 2006 for Goods and Works* issued in January 2006 by the National Procurement Agency, and the specific procedures prescribed by the *Procurement Manual* issued in March 2006, with the clarifications and modifications described in the following paragraphs required for compliance with the provisions of the ADB Procurement Guidelines.

B. Procurement Procedures

1. Eligibility

2. The eligibility of bidders shall be as defined under Section I of ADB's Procurement Guidelines (2015, as amended from time to time) (the "Guidelines"); accordingly, no bidder or potential bidder should be declared ineligible for reasons other than those provided in Section I of the Guidelines.

2. Registration and Sanctioning

3. Registration is acceptable under the following conditions:

- (i) Bidding shall not be restricted to pre-registered firms under the national registration system of the Institute for Construction, Training and Development (ICTAD), and such registration shall not be a condition for the submission of bids in the bidding process.
- (ii) Where registration is required prior to award of contract, bidders: (i) shall be allowed a reasonable time to complete the ICTAD registration process; and (ii) shall not be denied registration for reasons unrelated to their capability and resources to successfully perform the contract, which shall be verified through post-qualification.
- (iii) National sanction lists or blacklists may be applied only with prior approval of ADB.

3. Prequalification

4. Prequalification is discouraged for NCB. When used, particularly for works contracts, an individual prequalification exercise is acceptable for each contract as is the use of a registration system (or approved standing list) of contractors based on criteria such as experience, financial capacity, and technical capacity. Foreign bidders from eligible countries must, however, be allowed to register and to bid without unreasonable cost or additional requirements.

4. Advertising

5. The posting of NCB specific notices for contracts valued at less than \$1 million on ADB's website is not required but is highly recommended.

5. Preferences

6. The following shall be observed:

- (i) No preference of any kind shall be given to domestic bidders or for domestically manufactured goods.

- (ii) Foreign suppliers and contractors from ADB member countries shall be allowed to bid, without registration, licensing, and other government authorizations, leaving compliance with these requirements for after award and before signing of contract.

6. Participation by Government-Owned Enterprises

- 7. Government-owned enterprises in the Democratic Socialist Republic of Sri Lanka shall be eligible to participate only if they can establish that they are legally and financially autonomous, operate under commercial law, and are not a dependent agency of the procuring entity, or the Project Executing Agency or Implementing Agency.

7. Rejection of Bids and Rebidding

- 8. Bids shall not be subjected to a test for unrealistic rates. No lowest evaluated and substantially responsive bid shall be rejected on the basis of comparison to rates, including but not limited to market, historical, or agency established rates, without prior approval of ADB.
- 9. Bids shall not be rejected and new bids solicited without the ADB's prior concurrence.

8. Price Negotiations

- 10. Price negotiation shall be allowed only where the price offered by the lowest evaluated and substantially responsive bidder substantially exceeds costs estimates. Approval of ADB is required prior to any negotiation of prices.

C. Bidding Documents

9. Acceptable Bidding Documents

- 11. Procuring entities shall use standard bidding documents acceptable to ADB for the Procurement of Goods, Works and Consulting Services, based ideally on the standard bidding documents issued by ADB.

10. Bid Security

- 12. Where required, bid security shall be in the form of a certified check, a letter of credit or a bank guarantee from a reputable bank.

11. ADB Policy Clauses

- 13. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.
- 14. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the Borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for or the contract in question.
- 15. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, ADB-financed contract.

PROCUREMENT PLAN: TRANCHE 3**Basic Data**

Project Name: Integrated Road Investment Program – Tranche 3	
Project Number: 47273-005	Approval Number:
Country: Sri Lanka	Executing Agency: Ministry of University Education and Highways
Project Procurement Classification: B	Implementing Agency: Road Development Authority
Procurement Risk: Low	
Project Financing Amount: \$223.88 million ADB Financing: \$200 million Cofinancing (ADB Administered): N/A Non-ADB Financing: \$23.88 million	Project Closing Date: March 2024
Date of First Procurement Plan: 3 October 2014	Date of this Procurement Plan: 22 October 2015

A. Methods, Thresholds, Review, and 18-Month Procurement Plan**1. Procurement and Consulting Methods and Thresholds**

1. Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding (ICB) for Works	\$15,000,000 ¹	
International Competitive Bidding for Goods	\$2,000,000 ¹	
National Competitive Bidding (NCB) for Works ²	Beneath that stated for ICB, Works	
National Competitive Bidding for Goods ²	Beneath that stated for ICB, Goods	
Shopping for Works	Below \$100,000	
Shopping for Goods	Below \$100,000	

Consulting Services	
Method	Comments
Quality and Cost-Based Selection (QCBS)	
Quality-Based Selection	
Consultants' Qualifications Selection ³	
Least-Cost Selection ⁴	
Fixed Budget Selection	

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

2. The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number⁵	General Description	Estimated Value	Procurement Method	Review [Prior/Post/Post (Sample)]	Bidding Procedure⁶	Advertisement Date (quarter/year)	Comments⁷

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

3. The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior/Post)	Advertisement Date (quarter/year)	Type of Proposal ⁸	Comments ⁹

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

4. The following table groups smaller-value goods, works, and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number ⁵	General Description	Estimated Value	Number of Contracts	Procurement Method	Review [Prior / Post/Post (Sample)]	Bidding Procedure ⁶	Advertisement Date (quarter/year)	Comments ⁷

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior / Post)	Advertisement Date (quarter/year)	Type of Proposal ⁸	Comments ⁹

B. Indicative List of Packages Required Under the Project

5. The following table provides an indicative list of goods, works, and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number ⁵	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review [Prior/ Post/Post (Sample)]	Bidding Procedure ⁶	Comments ⁷

Consulting Services							
Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Recruitment Method	Review (Prior / Post)	Type of Proposal ⁸	Comments ⁹

C. List of Awarded and Ongoing, and Completed Contracts

6. The following tables list the awarded and ongoing contracts, and completed contracts.

1. Awarded and Ongoing Contracts

Goods and Works							
Package Number	General Description	Estimated Value	Awarded Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award ¹⁰	Comments ¹¹

Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award ¹⁰	Comments ¹²

2. Completed Contracts

Goods and Works								
Package Number	General Description	Estimated Value	Contract Value	Procurement Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award ¹⁰	Date of Completion ¹³	Comments

Consulting Services								
Package Number	General Description	Estimated Value	Contract Value	Recruitment Method	Advertisement Date (quarter/year)	Date of ADB Approval of Contract Award ¹⁰	Date of Completion ¹³	Comments

D. Non-ADB Financing

7. The following tables list goods, works, and consulting services contracts over the life of the project, financed by non-ADB sources.

Goods and Works				
General Description	Estimated Value (Cumulative)	Estimated Number of Contracts	Procurement Method	Comments

Consulting Services				
General Description	Estimated Value (Cumulative)	Estimated Number of Contracts	Recruitment Method	Comments

E. National Competitive Bidding

1. Regulation and Reference Documents

8. The procedures to be followed for national competitive bidding shall conform to the provisions prescribed in the Procurement Guidelines 2006 for Goods and Works issued in January 2006 by the National Procurement Agency, and the specific procedures prescribed by the Procurement Manual issued in March 2006, with the clarifications and modifications described in the following paragraphs required for compliance with the provisions of ADB's Procurement Guidelines.

2. Procurement Procedures

a. Eligibility

9. The eligibility of bidders shall be as defined under Section I of ADB's Procurement Guidelines (2015, as amended from time to time). Accordingly, no bidder or potential bidder should be declared ineligible for reasons other than those provided in Section I of the guidelines.

b. Registration and Sanctioning

10. Registration is acceptable under the following conditions:

- (i) Bidding shall not be restricted to pre-registered firms under the national registration system of the Institute for Construction, Training and Development (ICTAD), and such registration shall not be a condition for the submission of bids in the bidding process.

- (ii) Where registration is required prior to award of contract, bidders (i) shall be allowed a reasonable time to complete the ICTAD registration process, and (ii) shall not be denied registration for reasons unrelated to their capability and resources to successfully perform the contract, which shall be verified through post-qualification.
- (iii) National sanction lists or blacklists may be applied only with prior approval of ADB.

c. Prequalification

11. Prequalification is discouraged for NCB. When used, particularly for works contracts, an individual prequalification exercise is acceptable for each contract as is the use of a registration system (or approved standing list) of contractors based on criteria such as experience, financial capacity, and technical capacity. Foreign bidders from eligible countries must, however, be allowed to register and to bid without unreasonable cost or additional requirements.

d. Advertising

12. The posting of NCB specific notices for contracts valued at less than \$1 million on ADB's website is not required but is highly recommended.

e. Preferences

13. The following shall be observed:

- (i) No preference of any kind shall be given to domestic bidders or for domestically manufactured goods.
- (ii) Foreign suppliers and contractors from ADB member countries shall be allowed to bid, without registration, licensing, and other government authorizations, leaving compliance with these requirements for after award and before signing of contract.

f. Participation by Government-Owned Enterprises

14. Government-owned enterprises in the Democratic Socialist Republic of Sri Lanka shall be eligible to participate only if they can establish that they are legally and financially autonomous, operate under commercial law, and are not a dependent agency of the procuring entity, or the project executing agency or implementing agency.

g. Rejection of Bids and Rebidding

15. Bids shall not be subjected to a test for unrealistic rates. No lowest evaluated and substantially responsive bid shall be rejected on the basis of comparison to rates, including but not limited to market, historical, or agency established rates, without prior approval of ADB.

16. Bids shall not be rejected and new bids solicited without ADB's prior concurrence.

h. Price Negotiations

17. Price negotiation shall be allowed only where the price offered by the lowest evaluated and substantially responsive bidder substantially exceeds cost estimates. Approval of ADB is required prior to any negotiation of prices.

3. Bidding Documents

a. Acceptable Bidding Documents

18. Procuring entities shall use standard bidding documents acceptable to ADB for the procurement of goods, works, and consulting services, based ideally on the standard bidding documents issued by ADB.

b. Bid Security

19. Where required, bid security shall be in the form of a certified check, a letter of credit, or a bank guarantee from a reputable bank.

c. ADB Policy Clauses

20. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.

21. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question.

22. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, an ADB-financed contract.

PROCUREMENT PLAN: TRANCHE 4**Basic Data**

Project Name: Integrated Road Investment Program – Tranche 4	
Project Number: 47273-006	Approval Number:
Country: Sri Lanka	Executing Agency: Ministry of Higher Education and Highways
Project Procurement Classification: B	Implementing Agency: Road Development Authority
Procurement Risk: Low	
Project Financing Amount: \$168.00 million ADB Financing: \$150 million Cofinancing (ADB Administered): N/A Non-ADB Financing: \$18 million	Project Closing Date: March 2024
Date of First Procurement Plan: 20 July 2017	Date of this Procurement Plan: 20 July 2017

A. Methods, Thresholds, Review and 18-Month Procurement Plan**1. Procurement and Consulting Methods and Thresholds**

1. Except as the Asian Development Bank (ADB) may otherwise agree, the following process thresholds shall apply to procurement of goods and works.

Procurement of Goods and Works		
Method	Threshold	Comments
International Competitive Bidding (ICB) for Works	\$15,000,000 ¹	
International Competitive Bidding for Goods	\$2,000,000 ¹	
National Competitive Bidding (NCB) for Works ²	Beneath that stated for ICB, Works	
National Competitive Bidding for Goods ²	Beneath that stated for ICB, Goods	
Shopping for Works	Below \$100,000	
Shopping for Goods	Below \$100,000	

Consulting Services	
Method	Comments
Quality and Cost Based Selection (QCBS)	
Quality Based Selection	
Consultants' Qualifications Selection ³	
Least-Cost Selection ⁴	
Fixed Budget Selection	

2. Goods and Works Contracts Estimated to Cost \$1 Million or More

2. The following table lists goods and works contracts for which the procurement activity is either ongoing or expected to commence within the next 18 months.

Package Number⁵	General Description	Estimated Value	Procurement Method	Review [Prior / Post/Post (Sample)]	Bidding Procedure⁶	Advertisement Date (quarter/year)	Comments⁷

3. Consulting Services Contracts Estimated to Cost \$100,000 or More

3. The following table lists consulting services contracts for which the recruitment activity is either ongoing or expected to commence within the next 18 months.

Package Number	General Description	Estimated Value	Recruitment Method	Review (Prior / Post)	Advertisement Date (quarter/year)	Type of Proposal ⁸	Comments ⁹

4. Goods and Works Contracts Estimated to Cost Less than \$1 Million and Consulting Services Contracts Less than \$100,000 (Smaller Value Contracts)

4. The following tables group smaller-value goods, works, and consulting services contracts for which the activity is either ongoing or expected to commence within the next 18 months.

Goods and Works								
Package Number ⁵	General Description	Estimated Value	Number of Contracts	Procurement Method	Review [Prior / Post/Post (Sample)]	Bidding Procedure ⁶	Advertisement Date (quarter/year)	Comments ⁷

Consulting Services								
Package Number	General Description	Estimated Value	Number of Contracts	Recruitment Method	Review (Prior / Post)	Advertisement Date (quarter/year)	Type of Proposal ⁸	Comments ⁹

B. Indicative List of Packages Required Under the Project

5. The following table provides an indicative list of goods, works, and consulting services contracts over the life of the project, other than those mentioned in previous sections (i.e., those expected beyond the current period).

Goods and Works							
Package Number ⁵	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Procurement Method	Review [Prior / Post/Post (Sample)]	Bidding Procedure ⁶	Comments ⁷

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Package Number	General Description	Estimated Value (cumulative)	Estimated Number of Contracts	Recruitment Method	Review (Prior / Post)	Type of Proposal ⁸	Comments ⁹

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Consulting Services							
Package Number	General Description	Estimated Value	Awarded Contract Value	Recruitment Method	Advertisement Date (Quarter/Year)	Date of ADB Approval of Contract Award ¹⁰	Comments ¹²

2. Completed Contracts

Goods and Works								
Package Number	General Description	Estimated Value	Contract Value	Procurement Method	Advertisement Date (Quarter/Year)	Date of ADB Approval of Contract Award ¹⁰	Date of Completion ¹³	Comments

Consulting Services								
Package Number	General Description	Estimated Value	Contract Value	Recruitment Method	Advertisement Date (Quarter/Year)	Date of ADB Approval	Date of Completion ¹³	Comments

					Year)	of Contract Award¹⁰		

D. Non-ADB Financing

7. The following tables list goods, works, and consulting services contracts over the life of the project, financed by non-ADB sources.

Goods and Works				
General Description	Estimated Value (Cumulative)	Estimated Number of Contracts	Procurement Method	Comments

Consulting Services				
General Description	Estimated Value (Cumulative)	Estimated Number of Contracts	Recruitment Method	Comments

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8. The procedures to be followed for national competitive bidding shall conform to the provisions prescribed in the Procurement Guidelines 2006 for Goods and Works issued in January 2006 by the National Procurement Agency, and the specific procedures prescribed by the Procurement Manual issued in March 2006, with the clarifications and modifications described in the following paragraphs required for compliance with the provisions of ADB's Procurement Guidelines.

2. Procurement Procedures

a. Eligibility

9. The eligibility of bidders shall be as defined under Section I of ADB's Procurement Guidelines (2015, as amended from time to time). Accordingly, no bidder or potential bidder should be declared ineligible for reasons other than those provided in Section I of the guidelines.

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system of the Institute for Construction, Training and Development (ICTAD), and such registration shall not be a condition for the submission of bids in the bidding process.

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c. Prequalification

11. Prequalification is discouraged for NCB. When used, particularly for works contracts, an individual prequalification exercise is acceptable for each contract as is the use of a registration system (or approved standing list) of contractors based on criteria such as experience, financial capacity, and technical capacity. Foreign bidders from eligible countries must, however, be allowed to register and to bid without unreasonable cost or additional requirements.

d. Advertising

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13. The following shall be observed:

- (i) No preference of any kind shall be given to domestic bidders or for domestically manufactured goods.
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14. Government-owned enterprises in the Democratic Socialist Republic of Sri Lanka shall be eligible to participate only if they can establish that they are legally and financially autonomous, operate under commercial law, and are not a dependent agency of the procuring entity, or the project executing agency or implementing agency.

g. Rejection of Bids and Rebidding

15. Bids shall not be subjected to a test for unrealistic rates. No lowest evaluated and substantially responsive bid shall be rejected on the basis of comparison to rates, including but not limited to market, historical, or agency established rates, without prior approval of ADB.

16. Bids shall not be rejected and new bids solicited without ADB's prior concurrence.

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17. Price negotiation shall be allowed only where the price offered by the lowest evaluated

and substantially responsive bidder substantially exceeds cost estimates. Approval of ADB is required prior to any negotiation of prices.

3. Bidding Documents

a. Acceptable Bidding Documents

18. Procuring entities shall use standard bidding documents acceptable to ADB for the procurement of goods, works and consulting services, based ideally on the standard bidding documents issued by ADB.

b. Bid Security

19. Where required, bid security shall be in the form of a certified check, a letter of credit, or a bank guarantee from a reputable bank.

c. ADB Policy Clauses

20. A provision shall be included in all NCB works and goods contracts financed by ADB requiring suppliers and contractors to permit ADB to inspect their accounts and records and other documents relating to the bid submission and the performance of the contract, and to have them audited by auditors appointed by ADB.

21. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that the borrower shall reject a proposal for award if it determines that the bidder recommended for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question.

22. A provision shall be included in all bidding documents for NCB works and goods contracts financed by ADB stating that ADB will declare a firm or individual ineligible, either indefinitely or for a stated period, to be awarded a contract financed by ADB, if it at any time determines that the firm or individual has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices or any integrity violation in competing for, or in executing, an ADB-financed contract.

TERMS OF REFERENCE FOR CONSULTING SERVICES

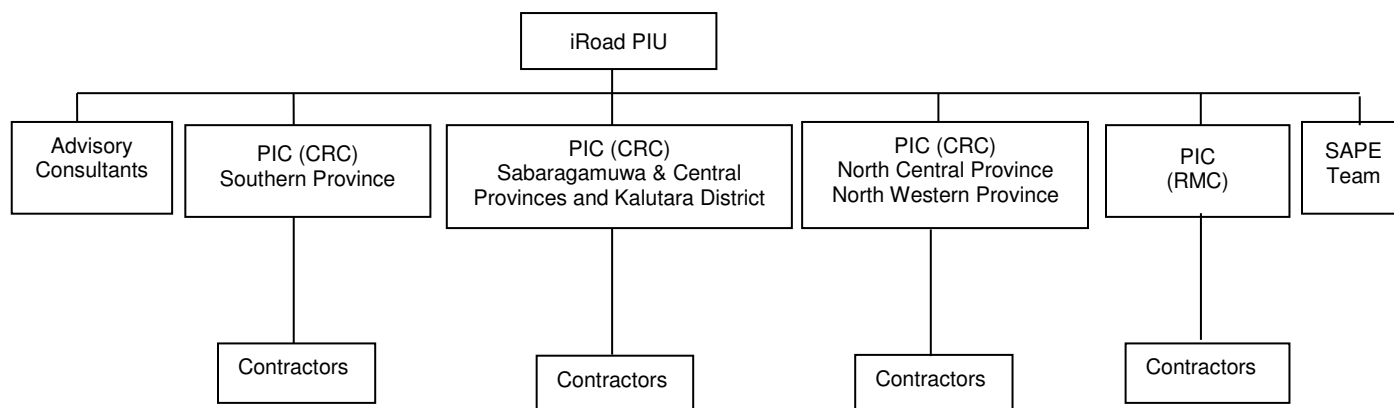
Project 1: Integrated Road Project in Southern Province

Outline Terms of Reference: Project Implementation Consultants for Conventional Road Contracts

I. BACKGROUND

1. The Democratic Socialist Republic of Sri Lanka is applying for a multitranche financing facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank (ADB). The MFF will comprise a series of loans to improve the access routes between rural areas and socioeconomic centers, in tranches. The program covers rural access roads and national roads in the Central, North Central, North Western, Sabaragamuwa, Southern, and Western provinces. The program includes conventional road contracts (CRC) and one road management contract (RMC), as well as post-construction performance-based maintenance in three separate geographical areas, based on the output- and performance-based road contract (OPRC) concept. Part of the funds from the MFF shall be used for providing consulting services for project implementation, including construction supervision, supervision of post-construction maintenance work, contract management, and other implementation activities in the CRC component. This outline terms of reference (TOR) is for providing consulting services for the CRC in the Southern Province (Project 1).

2. The executing agency (EA) of the iRoad investment program is the Ministry of Higher Education and Highways (MOHEH), and the implementing agency (IA) is the Road Development Authority (RDA). A project implementation consultant (PIC) is to be engaged. The overall project organizational chart is shown below.



CRC = conventional road contract, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

3. The general roles and responsibilities of the various parties involved in the iRoad investment program are defined under Table C-1.1.

Table C-1.1: Roles and Responsibilities of iRoad Parties

iRoad Participant	General Role and Responsibility
iRoad PIU	• Project and safeguards management • Approval of all variations of contracts for consulting services and civil works
Advisory Consultants	• Facilitating the PIU in areas requiring special expertise to achieve the program objectives, e.g., road asset management, output- and performance-based road contract, institutional matters, etc.
SAPE Team	• Feasibility study, safeguard documents, and level-2 designs • Community consultation along project roads
PIC (CRC)	• Reviewing and confirming the design and scope of works when the contractors apply the level-2 designs to the roads under conventional road contract packages • Construction supervision of conventional road contract packages • Supervision of post-construction maintenance work in conventional road contract packages • Monitoring safeguard activities • Providing on-the-job training in project management and contract administration to the PIU, EA, IA, and provincial and local road agencies
PIC (RMC)	• Supervision and monitoring of construction in road management contracts • Supervision and monitoring of post-construction maintenance in road management contracts • Monitoring safeguard activities • Assist the PIU in contract administration of the road management contracts • Providing support to the PIU, EA, IA, and contractors in understanding and implementing the road management contracts
Contractors	• Detailed design based on the level-2 design for conventional road contract packages, or the conceptual design for the road management contract packages • Deliver the physical works as required in the conventional road contract, or the level of services as required in the road management contract • For the road management contract packages, the work includes various asset management tasks • Implementing safeguard requirements in the contract

CRC = conventional road contract, EA = executing agency, IA = implementing agency, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

4. Among other scopes of the consulting services, the main task of the PIC (CRC) is to assist the RDA in supervising and/or implementing the civil works in the CRC component of the iRoad investment program.

5. In the CRC component, conventional measure and value contracts, requiring detailed contract supervision, will be used for the rehabilitation of approximately 596 kilometers of provincial and rural roads. Initial construction is to be completed in the first 2 years, followed by a 3-year maintenance period. The roads under the contract packages will be isolated lengths of roads dispersed across Southern Province.

II. SCOPE OF SERVICES

6. **Project implementation in Southern Province.** The contract packages of civil works to be monitored and supervised by the PIC are listed in Table C-1.2 below.

Table C-1.2: Contract Packages in Southern Province

Contract Package	Description	District	Length (km)	Construction (months)	PBM (months)
Conventional Road Contracts					
RDA/ADB/iRoad/SP/RR (G1)	Improving and maintaining 65 km of rural access roads in 4 DS Divisions	Galle	65	24	36
RDA/ADB/iRoad/SP/RR (G2)	Improving and maintaining 63 km of rural access roads in 5 DS Divisions	Galle	63	24	36
RDA/ADB/iRoad/SP/RR (G3)	Improving and maintaining 74 km of rural access roads in 8 DS Divisions	Galle	74	24	36
RDA/ADB/iRoad/SP/RR (M1)	Improving and maintaining 98 km of rural access roads in 2 DS Divisions	Matara	98	24	36
RDA/ADB/iRoad/SP/RR (M2)	Improving and maintaining 66 km of rural access roads in 6 DS Divisions	Matara	66	24	36
RDA/ADB/iRoad/SP/RR (M3)	Improving and maintaining 56 km of rural access roads in 6 DS Divisions	Matara	56	24	36
RDA/ADB/iRoad/SP/RR (H1)	Improving and maintaining 72 km of rural access roads in 5 DS Divisions	Hambantota	72	24	36
RDA/ADB/iRoad/SP/RR (H2)	Improving and maintaining 60 km of rural access roads in 4 DS Divisions	Hambantota	60	24	36
RDA/ADB/iRoad/SP/RR (H3)	Improving and maintaining 42 km of rural access roads in 3 DS Divisions	Hambantota	42	24	36

ADB = Asian Development Bank, iRoad = Integrated Road Investment Program, DS = Divisional Secretariat, km = kilometer, PBM = performance-based management, RDA = Road Development Authority, RR = rural road, SP = Southern Province.

7. The PIC will assist the PIU in the implementation of the contracts, including site supervision of construction activities, monitoring of maintenance performance, and other due diligence as defined in further detail below.

8. Following is the indicative timeline for implementation of the physical works (Table C-1.3):

Table C-1.3: Contract Implementation Timeline

Item	CRC Packages
Physical works commence	January 2015
Duration of rehabilitation works	2 years
End of maintenance period	3 years from end of physical works
CRC = conventional road contract.	

III. OUTLINE TERMS OF REFERENCE

9. A team of consultants (the Consultant) will be engaged to act as the “Engineer” on behalf of the employer in relation to the contract. The Consultant will also be required to discharge other responsibilities outlined in the TOR.

10. The Consultant shall use the most up-to-date software and technology for administration of the construction contracts. The Consultant shall ensure that all electronic files in relation to the deliverables of this TOR are in a format compatible with those used by the EA. The EA uses the Microsoft Office suite of software, ArcGIS for geographic information system applications, and AutoCad for drawings. Further clarification on any aspect of this requirement can be obtained from the PIU. While all files are to be provided in soft copy, hard copies of reports are also required as defined under section V below of this TOR. Subject to request by the PIU, some reports should also be provided in PDF format.

A. Project Implementation in Southern Province

11. Civil works under the CRC packages will be carried out based on the International Federation of Consulting Engineers (FIDIC) contract, MDB Harmonised Edition (June 2010).

12. The PIC will (i) undertake contract administration based on the FIDIC contract; (ii) undertake safeguards compliance and ensure that all safeguards (social, environmental, and indigenous peoples) are being complied under the project; (iii) undertake the Project Performance and Monitoring Survey 3 times—at the start of the project, at midterm, and at the end of the project; (iv) prepare and implement a capacity development program on project management and contract administration, including training, workshops, and seminars for the staff of MOHEH, the RDA, and provincial and local road agencies; (v) prepare monthly reports on progress and other issues; and (vi) prepare a project completion report when the project is substantially completed, incorporating comments from the PIU, the IA, the EA, and ADB.

13. The PIC will administer the construction contracts and ensure that the contractual clauses for both quality and specifications of works are complied with, and the works are constructed in accordance with the provisions of the construction contracts.

14. The PIC, while supervising construction works, will make all necessary arrangements for implementation of quality assurance and quality control plans following industry standards and best practices. The Consultant, in consultation with the PIU and the EA, will make all engineering decisions required for the successful and timely completion of the construction contracts, and will have all the powers defined as those of the Engineer under FIDIC.

IV. INPUTS AND QUALIFICATIONS OF KEY POSITIONS

15. The consulting services will be carried out by a team of international and national consultants. A total of 36 person-months of international consultant inputs and 572 person-months of national consultant inputs will be required in a period of 63 months (actual duration of service shall be in line with the schedule of civil works). All experts, international and national, must be proficient in both written and spoken English. The key and non-key positions are given in Table C-1.4.

Table C-1.4: Consultancy Positions

Position	No.	Input	Total
		(person-month)	
International Experts			
Team Leader/Chief Resident Engineer	1	30	30
FIDIC Contract and Claims Specialist	1	6	6
Subtotal	2		36
National Experts			
For the Construction Period			
Resident Engineer – SP/RR (G1), (G2), (G3)	1	27	27
Resident Engineer – SP/RR (M1), (M2), (M3)	1	27	27
Resident Engineer – SP/RR (H1), (H2), (H3)	1	27	27
Rural Road Design and Safety Engineer	2	28	56
Structural Engineer	1	6	6
Material Engineer	3	24	72
Quantity Surveyor	3	27	81
Environmental Specialist	1	30	30
Social/Gender/Resettlement Specialist	1	30	30
Land Surveyor	3	12	36
Contract and Claims Engineer	1	30	30
Assistant Resident Engineer	3	24	72
For the Maintenance Period (all SP/RR Contracts)			
Resident Engineer	01	39	39
Quantity Surveyor	01	39	39
Subtotal	25		572
Non-key Experts			
Junior Engineers	10	24	240
Technical Officers	18	24	432
Subtotal	28		672
Total	60		1,244

SP = Southern Province, RR = rural road.

Notes:

1. Curriculum vitae (CV) of Junior Engineers and Technical Officers (National) are not required for inclusion in the proposal and will not be evaluated. However, CVs must be submitted to the client for approval prior to mobilization.
2. The estimated person-months are indicative, and the actual will vary based on actual duration of works and will be paid on actual time basis. As common basis for financial proposal, the consultant must use the staff person-months indicated in the table above.
3. FIDIC Contract and Claims Specialist (International) will be mobilized on as-needed basis. His/her CV is required for inclusion in the technical proposal and will be evaluated.

16. The Consultant is required to propose the assignment of experts in accordance with the scope of work and expected deliverables. The qualifications and responsibilities of key positions are described as follows. Regional and country experience of the international staff is preferable.

17. **Team Leader/Chief Resident Engineer** shall be responsible for the overall tasks as defined here under the scope. He/she shall hold at minimum a bachelor's degree in civil engineering and preferably a master's degree in road engineering/contracts management. He/she shall have minimum 20-year experience in road construction. He/she shall be familiar with various international standards for design and construction (FIDIC), including stage of works and methods of construction such as temporary works, construction plans, schedules, construction method, assignments of equipment and personnel, testing and trials, and drawings.

18. The Team Leader will (i) maintain records and advise the PIU on the day-to-day

coordination and supervision of the project and its components, including the preparation of regular progress reports; (ii) coordinate and review updated designs and cost estimates as required by the contract; (iii) coordinate and supervise the work of field teams in supervising and certifying construction in accordance with contract conditions; (iv) coordinate and liaise with the employer, attend meetings arranged by the employer, and update the employer regularly on progress of work, delays, and variations, and recommend remedial measures; (v) submit to the employer and obtain the approval on variation, extension of time, and other specific items defined in the Particular Conditions of Contract; and (vii) chair the site progress review meeting. He/she will ensure that the safeguard aspects under the project are being complied. He/she will ensure that the specifications under the contract are being met, and quality is maintained.

19. **FIDIC Contract and Claims Specialist** shall have a bachelor's degree in engineering with minimum 15-year experience in road works contract administration, including FIDIC contract administration. He/she will (i) evaluate and settle variations and standard format of claims, and (ii) guide the employer in case of disputes by the contractor on claims settlement.

20. **Resident Engineers (for the construction period)** shall assist the Team Leader in the coordination and supervision of road construction works in the field. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road construction. He/she will conduct day-to-day construction supervision, monitor schedules, prepare monthly certificates, review and approve shop drawings and as-built drawings, and issue site instructions in consultation with the Team Leader. He/she will timely inform the Team Leader on issues relating to the quality of works, progress of work, and any other constraints affecting the work.

21. **Assistant Resident Engineers** shall assist the Resident Engineers in the coordination and supervision of the road construction works in the field. The Assistant Resident Engineer shall have a bachelor's degree in civil engineering with minimum 5-year experience in road construction. He/she will assist Resident Engineers in day-to-day construction supervision, monitoring schedules, checking monthly certificates, and reviewing shop drawings and as-built drawings.

22. **Rural Road Design and Safety Engineer** shall have a bachelor's degree in civil engineering, professionally qualified with 8-year experience in road design, especially in asphalt pavement design and construction of roads. He/she will assist the Resident Engineer in reviewing the rural road and pavement design by the CRC contractors, checking design centerline set-out and making necessary adjustments, and issuing instructions to the contractors.

23. He/she will also conduct systematic road safety audits (RSA) of 10% of preliminary design and 10% of detailed design, including preparation of formal RSA and safety check reports; conduct systematic road safety inspections (RSI) on a randomly selected sample of roads under maintenance, and document issues and countermeasures; prepare semestral summary road safety monitoring reports; provide training and support to the PIU; assist the PIU with road safety complaints and accident investigations; and assess the effectiveness of RSA procedures and recommend improvements as needed.

24. **Structural Engineer** shall assist the Resident Engineer in ensuring that the design complies with technical and safety standards. The bridge engineer shall have a bachelor's degree in civil engineering with minimum 8-year experience in bridge construction supervision. He/she will update designs and cost estimates prepared by the design consultants, supervise the bridge constructions, and assist the Resident Engineer in issuing instructions to the contractors.

25. **Material Engineers** shall have a bachelor's degree in civil engineering with minimum 5-year experience or a national certificate in civil engineering with minimum 10-year experience in major road construction works especially in material testing. He/she will undertake day-to-day supervision of compliance to material specifications and testing; supervise the contractors' work; and certify the construction in accordance with contract conditions, including acceptance standards of materials, approval of source supply, and material testing methods.

26. **Quantity Surveyor (for the construction period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying of major projects. He/she shall check and recommend the payment certificates, maintain measurement records, and review and update the estimates as required. He/she will also assist the Resident Engineer in checking the quantity, variations, and justification.

27. **Land Surveyor** shall be a qualified surveyor with minimum 10-year field experience. He/she shall assist the Resident Engineer in ensuring that the setting-outs are checked and assist in adjusting the profiles to suit the site conditions. He/she shall continuously check the contractors' setting-outs and approve these, and ensure the designed centerline fixed complies with technical and safety standards.

28. **Contract and Claims Engineer** shall have a bachelor's degree in civil engineering with minimum 15-year experience in road contract administration, including FIDIC contract administration, and minimum 5-year experience as a contract engineer. He/she will (i) evaluate and settle variations and standard format of claims; (ii) advise the Chief Resident Engineer and Resident Engineers (CRE/RE) on potential claims; (iii) assist the contract specialist in evaluating claims and variations; (iv) assist the CRE/RE in responding to the contractors on contractual matters; (v) guide the employer in case of disputes by the contractor on claims settlement; and (vi) assist the employer in establishing a dispute resolution board.

29. **Environmental Specialist** shall have a master's degree in environmental science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring environmental management schemes associated with infrastructure projects. He/she will (i) assist in reviewing the environmental checklists and contract package specific environmental management plans (EMP) for all project roads and ensure that they have been prepared in accordance with the requirements of the environmental assessment and review framework (EARF) for all tranches; (ii) during the preparation of the subsequent tranche, ensure all nominated roads comply with the selection criteria provided in the EARF and prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iii) check compliance of (a) the initial environmental examination (IEE) and standard EMP prepared by the survey and preliminary engineering (SAPE) team in line with the requirements of the EARF, and (b) the contract package specific EMP with the requirements of the EARF and the respective province-level IEE; (iv) provide technical advice to the contractor and conduct on-the-job training as necessary; and (v) prepare monitoring reports on an annual basis based on monitoring checklists completed for each project road during pre-construction, construction, and post-construction or operation stages.

30. **Social/Gender/Resettlement Specialist** shall have a master's degree in social science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring social development schemes associated with infrastructure projects. He/she will (i) ensure compliance of all preliminary designs of rural road and national road projects prepared by the

SAPE consultant in accordance with the resettlement framework for all tranches; (ii) check and ensure that the detailed design prepared by the civil works contractors have incorporated feasible features based on the outcome from transect walks; (iii) during the preparation of the subsequent tranche, prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iv) monitor and evaluate the implementation of the community participation process prescribed in the resettlement framework and recommend improvements to the participatory process to ensure broader participation of the rural population in project road formulation; (v) for rural roads that require land donation, monitor the land donation process and conduct field visits on a monthly basis until the land donation is finalized; (vi) during the construction phase, conduct monitoring of all project roads and prepare monitoring reports on a biannual basis for all project tranches; and (vii) during the maintenance phase, conduct monitoring of all project roads and prepare monitoring reports on an annual basis for all project tranches.

31. He/she will also (i) provide training and support to the PIU on implementing the gender action plan (GAP) activities at the field level; (ii) lead the implementation of specific gender-mainstreaming activities as detailed in the GAP; and (iii) monitor and report the overall implementation of relevant activities included in the GAP for all tranches on a semi-annual basis.

32. **Resident Engineer (for the maintenance period)** shall coordinate and supervise post-construction road maintenance work. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road maintenance.

33. **Quantity Surveyor (for the maintenance period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying

34. **Junior Engineers** shall hold a bachelor's degree in civil engineering and minimum 3-year experience. He/she will assist the Chief Resident Engineer, Resident Engineers, and Assistant Resident Engineers on day-to-day works.

35. **Technical Officers** shall have a national diploma in civil engineering with minimum 8-year experience in road construction works especially in workmanship and construction methods. He/she shall ensure the construction works are carried out according to the drawings and specifications, take measurements of daily work done, and coordinate and liaise with the Land Surveyor and the Material Engineer in checking and testing.

V. OUTPUT AND REPORTING REQUIREMENTS

36. The Consultant will prepare reports, including monthly reports, on the project progress in a format and level of detail agreed with the IA and ADB. The Consultant will maintain records documenting information supplied by the field teams, decisions made at meetings, progress on civil works, certified achievements and milestones, financial records, and any deviations from or changes to the contract plans. The Consultant will assist the PMU/PIU in preparing quarterly progress reports; safeguard compliance reports, which include sections on environment, social, and gender; a project completion report; and monitoring and evaluation reports as required under the contract. The Consultant will also undertake surveys, design reviews and workshops, and submit relevant reports.

37. The Consultant will submit reports in hard copy and soft copy as follows (Table C-1.5):

Table C-1.5: Reporting Requirements

Deliverables	Deadline	Copies
Inception Report	End of month 1	5
Monthly Report on CRC Packages	Within 2 weeks of end of month	5
Project Completion Report	By project completion	7
Draft PFR for iRoad (up to 10 PFRs)	Upon RDA's request	5
Special Reports as requested by RDA	Upon RDA's request	5

CRC = conventional road contract, iRoad = Integrated Road Investment Program, PFR = periodic financing request, RDA = Road Development Authority.

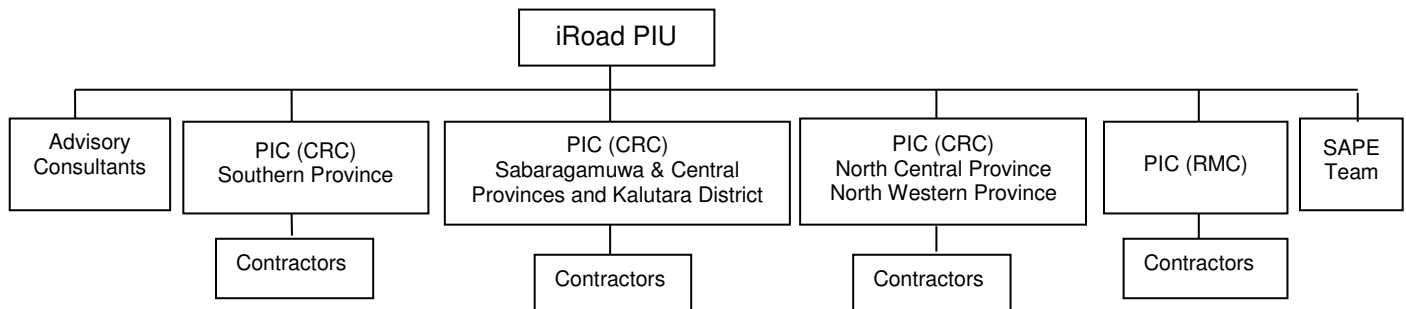
Project 2: Integrated Road Project in Sabaragamuwa Province and Kalutara District
Project 3: Integrated Road Project in Central Province

Outline Terms of Reference:
Project Implementation Consultants for Conventional Road Contracts

I. BACKGROUND

1. The Democratic Socialist Republic of Sri Lanka is applying for a multitranche financing facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank (ADB). The MFF will comprise a series of loans to improve the access routes between rural areas and socioeconomic centers, in tranches. The program covers rural access roads and national roads in the Central, North Central, North Western, Sabaragamuwa, Southern, and Western provinces. The program includes conventional road contracts (CRC) and one road management contract (RMC), as well as post-construction performance-based maintenance in three separate geographical areas, based on the output- and performance-based road contract (OPRC) concept. Part of the funds from the MFF shall be used for providing consulting services for project implementation, including construction supervision, supervision of post-construction maintenance work, contract management, and other implementation activities in the CRC component. This outline terms of reference (TOR) is for providing consulting services for the CRC in Sabaragamuwa Province and the Kalutara District of Western Province (Project 2) and in Central Province (Project 3).

2. The executing agency (EA) of the iRoad Investment Program is the Ministry of Higher Education and Highways (MOHEH), and the implementing agency (IA) is the Road Development Authority (RDA). A project implementation consultant (PIC) is to be engaged. The overall project organizational chart is shown below.



CRC = conventional road contract, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

3. The general roles and responsibilities of the various parties involved in the iRoad investment program are defined under Table C-2.1.

Table C-2.1: Roles and Responsibilities of iRoad Parties

iRoad Participant	General Role and Responsibility
iRoad PIU	• Project and safeguards management • Approval of all variations of contracts for consulting services and civil works
Advisory Consultants	• Facilitating the PIU in areas requiring special expertise to achieve the program objectives, e.g., road asset management, output- and performance-based road contract, institutional matters, etc.
SAPE Team	• Feasibility study, safeguard documents, and level-2 designs • Community consultation along project roads
PIC (CRC)	• Reviewing and confirming the design and scope of works when the contractors apply the level-2 designs to the roads under conventional road contract packages • Construction supervision of conventional road contract packages • Supervision of post-construction maintenance work in conventional road contract packages • Monitoring safeguard activities • Providing on-the-job training to the PIU, EA, IA, and provincial and local road agencies in project management and contract administration
PIC (RMC)	• Supervision and monitoring of construction in road management contracts • Supervision and monitoring of post-construction maintenance in road management contracts • Monitoring safeguard activities • Assist the PIU in contract administration of the road management contracts • Providing support to the PIU, EA, IA, and contractors in understanding and implementing the road management contracts
Contractors	• Detailed design based on the level-2 design for conventional road contract packages, or the conceptual design for the road management contract packages • Deliver the physical works as required in the conventional road contract, or the level of services as required in the road management contract • For the road management contract packages, the work includes various asset management tasks • Implementing safeguard requirements in the contract

CRC = conventional road contract, EA = executing agency, IA = implementing agency, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

4. Among other scopes of the consulting services, the main task of the PIC (CRC) is to assist the RDA in supervising and/or implementing the civil works in the CRC component of the iRoad investment program.

5. In the CRC component, conventional measure and value contracts, requiring detailed contract supervision, will be used for the rehabilitation of approximately 1,440 kilometers of provincial and rural roads. Initial construction is to be completed in the first 2 years, followed by a 3-year maintenance period. The roads under the contract packages will be isolated lengths of roads dispersed across Sabaragamuwa Province and Central Province and the Kalutara District of Western Province.

II. SCOPE OF SERVICES

6. **Project implementation in Sabaragamuwa and Central Provinces and Kalutara District.** The contract packages of civil works to be monitored and supervised by the PIC are listed in Table C-2.2 below.

Table C-2.2: Contract Packages in Sabaragamuwa and Central Provinces and Kalutara District

Contract Package	Description	District	Length (km)	Construction (months)	PBM (months)
Conventional Road Contracts					
RDA/ADB/iRoad/SG/RR (R1)	Improving and maintaining approximately 80 km of rural access roads in 6 DS Divisions	Ratnapura	80	24	36
RDA/ADB/iRoad/SG/RR (R2)	Improving and maintaining approximately 80 km of rural access roads in 6 DS Divisions	Ratnapura	80	24	36
RDA/ADB/iRoad/SG/RR (R3)	Improving and maintaining approximately 80 km of rural access roads in 6 DS Divisions	Ratnapura	80	24	36
RDA/ADB/iRoad/SG/RR (K1)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Kegalla	80	24	36
RDA/ADB/iRoad/SG/RR (K2)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Kegalla	80	24	36
RDA/ADB/iRoad/SG/RR (K3)	Improving and maintaining approximately 80 km of rural access roads in 3 DS Divisions	Kegalla	80	24	36
RDA/ADB/iRoad/CP/RR (K1)	Improving and maintaining approximately 80 km of rural access roads in 6 DS Divisions	Kandy	80	24	36
RDA/ADB/iRoad/CP/RR (K2)	Improving and maintaining approximately 80 km of rural access roads in 7 DS Divisions	Kandy	80	24	36
RDA/ADB/iRoad/CP/RR (K3)	Improving and maintaining approximately 80 km of rural access roads in 7 DS Divisions	Kandy	80	24	36
RDA/ADB/iRoad/CP/RR (NE1)	Improving and maintaining approximately 80 km of rural access roads	Nuwara Eliya	80	24	36
RDA/ADB/iRoad/CP/RR	Improving and maintaining	Nuwara	80	24	36

Contract Package	Description	District	Length (km)	Constructio n (months)	PBM (months)
(NE2)	approximately 80 km of rural access roads	Eliya			
RDA/ADB/iRoad/CP/RR (NE3)	Improving and maintaining approximately 80 km of rural access roads	Nuwara Eliya	80	24	36
RDA/ADB/iRoad/CP/RR (M1)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Matale	80	24	36
RDA/ADB/iRoad/CP/RR (M2)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Matale	80	24	36
RDA/ADB/iRoad/CP/RR (M3)	Improving and maintaining approximately 80 km of rural access roads in 3 DS Divisions	Matale	80	24	36
RDA/ADB/iRoad/WP/RR (K1)	Improving and maintaining approximately 80 km of rural access roads in 5 DS Divisions	Kalutara	80	24	36
RDA/ADB/iRoad/WP/RR (K2)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Kalutara	80	24	36
RDA/ADB/iRoad/WP/RR (K3)	Improving and maintaining approximately 80 km of rural access roads in 4 DS Divisions	Kalutara	80	24	36

ADB = Asian Development Bank, CP = Central Province, iRoad = Integrated Road Investment Program, DS = Divisional Secretariat, km = kilometer, PBM = performance-based management, RDA = Road Development Authority, RR = rural road, SG = Sabaragamuwa Province, WP = Western Province.

7. The PIC will assist the PIU in the implementation of the contracts, including site supervision of construction activities, monitoring of maintenance performance, and other due diligence as defined in further detail below.

8. Following is the indicative timeline for implementation of the physical works (Table C-2.3):

Table C-2.3: Contract Implementation Timeline

Item	CRC Packages
Physical works commence	January 2015
Duration of rehabilitation works	2 years
End of maintenance period	3 years from end of physical works

CRC = conventional road contract.

III. OUTLINE TERMS OF REFERENCE

9. A team of consultants (the Consultant) will be engaged to act as the “Engineer” on behalf

of the employer in relation to the contract. The Consultant will also be required to discharge other responsibilities outlined in the TOR.

10. The Consultant shall use the most up-to-date software and technology for administration of the construction contracts. The Consultant shall ensure that all electronic files in relation to the deliverables of this TOR are in a format compatible with those used by the EA. The EA uses the Microsoft Office suite of software, ArcGIS for geographic information system applications, and AutoCad for drawings. Further clarification on any aspect of this requirement can be obtained from the PIU. While all files are to be provided in soft copy, hard copies of reports are also required as defined under section V below of this TOR. Subject to request by the PIU, some reports should also be provided in PDF format.

A. Project Implementation in Sabaragamuwa and Central Provinces and Kalutara District

11. Civil works under the CRC packages will be carried out based on the International Federation of Consulting Engineers (FIDIC) contract, MDB Harmonised Edition (June 2010).

12. The PIC will (i) undertake contract administration based on the FIDIC contract; (ii) undertake safeguards compliance and ensure that all safeguards (social, environmental, and indigenous peoples) are being complied under the project; (iii) undertake the Project Performance and Monitoring Survey 3 times—at the start of the project, at midterm, and at the end of the project; (iv) prepare and implement a capacity development program on project management and contract administration, including training, workshops, and seminars for the staff of MOHEH, the RDA, and provincial and local road agencies; (v) prepare monthly reports on progress and other issues; and (vi) prepare a project completion report when the project is substantially completed, incorporating comments from the PIU, the IA, the EA, and ADB.

13. The PIC will administer the construction contracts and ensure that the contractual clauses for both quality and specifications of works are complied with, and the works are constructed in accordance with the provisions of the construction contracts.

14. The PIC, while supervising construction works, will make all necessary arrangements for implementation of quality assurance and quality control plans following industry standards and best practices. The Consultant, in consultation with the PIU and the EA, will make all engineering decisions required for the successful and timely completion of the construction contracts, and will have all the powers defined as those of the Engineer under FIDIC.

IV. INPUTS AND QUALIFICATIONS OF KEY POSITIONS

15. The consulting services will be carried out by a team of international and national consultants. A total of 36 person-months of international consultant inputs and 906 person-months of national consultant inputs will be required in a period of 63 months (actual duration of service shall be in line with the schedule of civil works). All experts, international and national, must be proficient in both written and spoken English. The key and non-key positions are given in Table C-2.4.

Table C-2.4: Consultancy Positions

Position	No.	Input	Total
		(person-month)	
International Experts			

Position	No.	Input	Total
		(person-month)	
Team Leader/Chief Resident Engineer	1	30	30
FIDIC Contract and Claims Specialist	1	6	6
Subtotal	2		36
National Experts			
For the Construction Period			
Resident Engineer – SG/RR (R1), (R2), (R3)	1	27	27
Resident Engineer – SG/RR (K1), (K2), (K3)	1	27	27
Resident Engineer – CP/RR (K1), (K2), (K3)	1	27	27
Resident Engineer – CP/RR (NE1), (NE2), (NE3)	1	27	27
Resident Engineer – CP/RR (M1), (M2), (M3)	1	27	27
Resident Engineer – WP/RR (K1), (K2), (K3)	1	27	27
Rural Road Design and Safety Engineer	3	24	72
Structural Engineer	3	6	18
Material Engineer	6	24	144
Quantity Surveyor	6	27	162
Environmental Specialist	1	27	27
Social/Gender/Resettlement Specialist	1	27	27
Land Surveyor	6	8	48
Contract and Claims Engineer	1	24	24
Assistant Resident Engineer	6	24	144
For the Maintenance Period (all SG, CP, WP/RR Contracts)			
Resident Engineer	1	39	39
Quantity Surveyor	1	39	39
Subtotal	35		906
Non-key Experts			
Junior Engineers	24	27	648
Technical Officers	36	27	972
Subtotal	54		1,620
Total	89		2,526

CP = Central Province, SG = Sabaragamuwa Province, SP = Southern Province, RR = rural road, WP = Western Province.

Notes:

- Curriculum vitae (CV) of Junior Engineers and Technical Officers (National) are not required for inclusion in the proposal and will not be evaluated. However, CVs must be submitted to the client for approval prior to mobilization.
- The estimated person-months are indicative, and the actual will vary based on actual duration of works and will be paid on actual time basis. As common basis for financial proposal, the Consultant must use the staff person-months indicated in the table above.
- FIDIC Contract and Claims Specialist (International) will be mobilized on as-needed basis. His/her CV is required for inclusion in the technical proposal and will be evaluated.

16. The Consultant is required to propose the assignment of experts in accordance with the scope of work and expected deliverables. The qualifications and responsibilities of key positions are described as follows. Regional and country experience of the international staff is preferable.

17. **Team Leader/Chief Resident Engineer** shall be responsible for the overall tasks as defined here under the scope. He/she shall hold at minimum a bachelor's degree in civil engineering and preferably a master's degree in road engineering/contracts management. He/she shall have minimum 20-year experience in road construction. He/she shall be familiar with various international standards for design and construction (FIDIC), including stage of works and methods of construction such as temporary works, construction plans, schedules, construction method, assignments of equipment and personnel, testing and trials, and drawings.

18. The Team Leader will (i) maintain records and advise the PIU on the day-to-day coordination and supervision of the project and its components, including the preparation of regular progress reports; (ii) coordinate and review updated designs and cost estimates as required by the contract; (iii) coordinate and supervise the work of field teams in supervising and certifying construction in accordance with contract conditions; (iv) coordinate and liaise with the employer, attend meetings arranged by the employer, and update the employer regularly on progress of work, delays, and variations, and recommend remedial measures; (v) submit to the employer and obtain the approval on variation, extension of time, and other specific items defined in the Particular Conditions of Contract; and (vii) chair the site progress review meeting. He/she will ensure that the safeguard aspects under the project are being complied. He/she will ensure that the specifications under the contract are being met, and quality is maintained.

19. **FIDIC Contract and Claims Specialist** shall have a bachelor's degree in engineering with minimum 15-year experience in road works contract administration, including FIDIC contract administration. He/she will (i) evaluate and settle variations and standard format of claims, and (ii) guide the employer in case of disputes by the contractor on claims settlement.

20. **Resident Engineers (for the construction period)** shall assist the Team Leader in the coordination and supervision of road construction works in the field. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road construction. He/she will conduct day-to-day construction supervision, monitor schedules, prepare monthly certificates, review and approve shop drawings and as-built drawings, and issue site instructions in consultation with the Team Leader. He/she will timely inform the Team Leader on issues relating to the quality of works, progress of work, and any other constraints affecting the work.

21. **Assistant Resident Engineers** shall assist the Resident Engineers in the coordination and supervision of the road construction works in the field. The Assistant Resident Engineer shall have a bachelor's degree in civil engineering with minimum 5-year experience in road construction. He/she will assist Resident Engineers in day-to-day construction supervision, monitoring schedules, checking monthly certificates, and reviewing shop drawings and as-built drawings.

22. **Rural Road Design and Safety Engineer** shall have a bachelor's degree in civil engineering, professionally qualified with 8-year experience in road design especially in asphalt pavement design and construction of roads. He/she will assist the Resident Engineer in reviewing the rural road and pavement design by the CRC contractors, checking design centerline set-out and making necessary adjustments, and issuing instructions to the contractors.

23. He/she will also conduct systematic road safety audits (RSA) of 10% of preliminary design and 10% of detailed design, including preparation of formal RSA and safety check reports; conduct systematic road safety inspections (RSI) on a randomly selected sample of roads under maintenance, and document issues and countermeasures; prepare semestral summary road safety monitoring reports; provide training and support to the PIU; assist the PIU with road safety complaints and accident investigations; and assess the effectiveness of RSA procedures and recommend improvements as needed.

24. **Structural Engineer** shall assist the Resident Engineer in ensuring that the design complies with technical and safety standards. The bridge engineer shall have a bachelor's degree in civil engineering with minimum 8-year experience in bridge construction supervision. He/she

will update designs and cost estimates prepared by the design consultants, supervise the bridge constructions, and assist the Resident Engineer in issuing instructions to the contractors.

25. **Material Engineers** shall have a bachelor's degree in civil engineering with minimum 5-year experience or a national certificate in civil engineering with minimum 10-year experience in major road construction works especially in material testing. He/she will undertake day-to-day supervision of compliance to material specifications and testing; supervise the contractors' work; and certify the construction in accordance with contract conditions, including acceptance standards of materials, approval of source supply, and material testing methods.

26. **Quantity Surveyor (for the construction period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying of major projects. He/she shall check and recommend the payment certificates, maintain measurement records, and review and update the estimates as required. He/she will also assist the Resident Engineer in checking the quantity, variations, and justification.

27. **Land Surveyor** shall be a qualified surveyor with minimum 10 years of field experience. He/she shall assist the Resident Engineer in ensuring that the setting-outs are checked and assist in adjusting the profiles to suit the site conditions. He/she shall continuously check the contractors' setting-outs and approve these, and ensure the designed centerline fixed complies with technical and safety standards.

28. **Contract and Claims Engineer** shall have a bachelor's degree in civil engineering with minimum 15-year experience in road contract administration, including FIDIC contract administration, and minimum 5-year experience as a contract engineer. He/she will (i) evaluate and settle variations and standard format of claims; (ii) advise the Chief Resident Engineer and Resident Engineers (CRE/RE) on potential claims; (iii) assist the contract specialist in evaluating claims and variations; (iv) assist the CRE/RE in responding to the contractors on contractual matters; (v) guide the employer in case of disputes by the contractor on claims settlement; and (vi) assist the employer in establishing a dispute resolution board.

29. **Environmental Specialist** shall have a master's degree in environmental science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring environmental management schemes associated with infrastructure projects. He/she will (i) assist in reviewing the environmental checklists and contract package specific environmental management plans (EMP) for all project roads and ensure that they have been prepared in accordance with the requirements of the environmental assessment and review framework (EARF) for all tranches; (ii) during the preparation of the subsequent tranche, ensure all nominated roads comply with the selection criteria provided in the EARF and prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iii) check compliance of (a) the initial environmental examination (IEE) and standard EMP prepared by the survey and preliminary engineering (SAPE) team with the requirements of the EARF, and (b) the contract package specific EMP with requirements of the EARF and the respective province-level IEE; (iv) provide technical advice to the contractor and conduct on-the-job training as necessary; and (v) prepare monitoring reports on an annual basis based on monitoring checklists completed for each project road during pre-construction, construction, and post-construction or operation stages.

30. **Social/Gender/Resettlement Specialist** shall have a master's degree in social science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring

social development schemes associated with infrastructure projects. He/she will (i) ensure compliance of all preliminary designs of rural road and national road projects prepared by the SAPE consultant in accordance with the resettlement framework for all tranches; (ii) check and ensure that the detail design prepared by civil works contractors have incorporated feasible features based on the outcome from transect walks; (iii) during the preparation of the subsequent tranche, prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iv) monitor and evaluate the implementation of the community participation process prescribed in the resettlement framework and recommend improvements to the participatory process to ensure broader participation of the rural population in project road formulation; (v) for rural roads that require land donation, monitor the land donation process and conduct field visits on a monthly basis until the land donation is finalized; (vi) during the construction phase, conduct monitoring of all project roads and prepare monitoring reports on a biannual basis for all project tranches; and (vii) during the maintenance phase, conduct monitoring of all project roads and prepare monitoring reports on an annual basis for all project tranches.

31. He/she will also (i) provide training and support to the PIU on implementing the gender action plan (GAP) activities at the field level; (ii) lead the implementation of specific gender-mainstreaming activities as detailed in the GAP; and (iii) monitor and report the overall implementation of relevant activities included in the GAP for all tranches on a semi-annual basis.

32. **Resident Engineer (for the maintenance period)** shall coordinate and supervise post-construction road maintenance work. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road maintenance.

33. **Quantity Surveyor (for the maintenance period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying

34. **Junior Engineers** shall hold a bachelor's degree in civil engineering and minimum 3-year experience. He/she will assist the Chief Resident Engineer, Resident Engineers, and Assistant Resident Engineers on day-to-day works.

35. **Technical Officers** shall have a national diploma in civil engineering with minimum 8-year experience in road construction works especially in workmanship and construction methods. He/she shall ensure the construction works are carried out according to the drawings and specifications, take measurements of daily work done, and coordinate and liaise with the Land Surveyor and the Material Engineer in checking and testing.

V. OUTPUT AND REPORTING REQUIREMENTS

36. The Consultant will prepare reports, including monthly reports, on the project progress in a format and level of detail agreed with the IA and ADB. The Consultant will maintain records documenting information supplied by the field teams, decisions made at meetings, progress on civil works, certified achievements and milestones, financial records, and any deviations from or changes to the contract plans. The Consultant will assist the PMU/PIU in preparing quarterly progress reports; safeguard compliance reports, including sections on environment, social, and gender; a project completion report; and monitoring and evaluation reports as required under the contract. The Consultant will also undertake surveys, design reviews and workshops, and submit relevant reports.

38. The Consultant will submit reports in hard copy and soft copy as follows (Table C-2.5):

Table C-2.5: Reporting Requirements

Deliverables	Deadline	Copies
Inception Report	End of month 1	5
Monthly Report on CRC Packages	Within 2 weeks of end of month	5
Project Completion Report	By project completion	7
Draft PFR for iRoad (up to 10 PFRs)	Upon RDA's request	5
Special Reports as requested by RDA	Upon RDA's request	5

CRC = conventional road contract, iRoad = Integrated Road Investment Program, PFR = periodic financing request, RDA = Road Development Authority.

VI. EXTENSION OF CONSULTING SERVICES

37. The PIC contract may be extended for project implementation support in successive tranches of the MFF, subject to evaluation by the Steering Committee of the government and agreement by ADB. The Steering Committee of the government shall determine whether the Consultant shall conduct the successive services based on the assessment of the Consultant's performance.

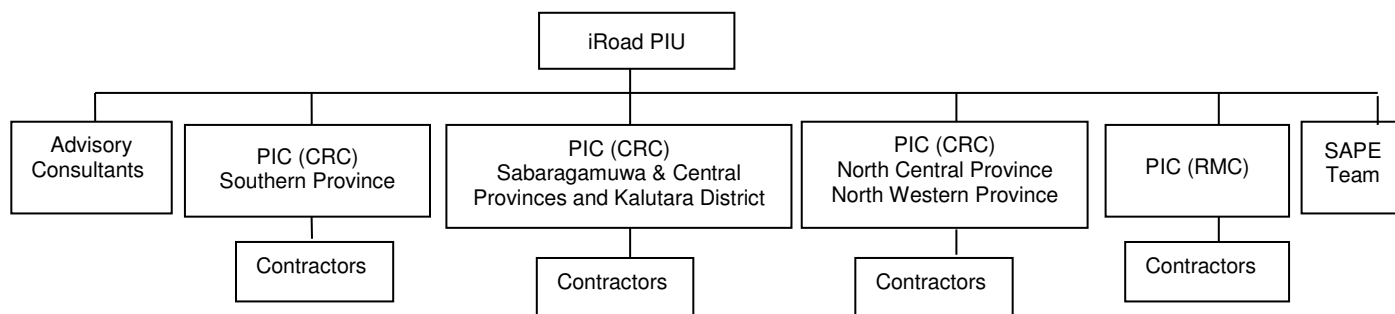
Project 4: Integrated Road Project in North Central Province
Project 5: Integrated Road Project in North Western Province

Outline Terms of Reference:
Project Implementation Consultants for Conventional Road Contracts

I. BACKGROUND

1. The Democratic Socialist Republic of Sri Lanka is applying for a multitranche financing facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank (ADB). The MFF will comprise a series of loans to improve the access routes between rural areas and socioeconomic centers, in tranches. The program covers rural access roads and national roads in the Central, North Central, North Western, Sabaragamuwa, Southern, and Western provinces. The program includes conventional road contracts (CRC) and one road management contract (RMC), as well as post-construction performance-based maintenance in three separate geographical areas, based on the output- and performance-based road contract (OPRC) concept. Part of the funds from the MFF shall be used for providing consulting services for project implementation, including construction supervision, supervision of post-construction maintenance work, contract management, and other implementation activities in the CRC component. This outline terms of reference (TOR) is for providing consulting services for the CRC in North Central Province (Project 4) and North Western Province (Project 5).

2. The executing agency (EA) of the iRoad investment program is the Ministry of Higher Education and Highways (MOHEH), and the implementing agency (IA) is the Road Development Authority (RDA). A project implementation consultant (PIC) is to be engaged. The overall project organizational chart is shown below.



CRC = conventional road contract, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

3. The general roles and responsibilities of the various parties involved in the iRoad investment program are defined under Table C-3.1.

Table C-3.1: Roles and Responsibilities of iRoad Parties

iRoad Participant	General Role and Responsibility
iRoad PIU	• Project and safeguards management • Approval of all variations of contracts for consulting services and civil works
Advisory Consultants	• Facilitating the PIU in areas requiring special expertise to achieve the program objectives, e.g., road asset management, output- and performance-based road contract, and institutional matters, etc.
SAPE Team	• Feasibility study, safeguard documents, and level-2 designs • Community consultation along project roads
PIC (CRC)	• Reviewing and confirming the design and scope of works when the contractors apply the level-2 designs to the roads under conventional road contract packages • Construction supervision of conventional road contract packages • Supervision of post-construction maintenance work in conventional road contract packages • Monitoring safeguard activities • Providing on-the-job training to the PIU, EA, IA, and provincial and local road agencies in project management and contract administration
PIC (RMC)	• Supervision and monitoring of construction in road management contracts • Supervision and monitoring of post-construction maintenance in road management contracts • Monitoring safeguard activities • Assist the PIU in contract administration of the road management contracts • Providing support to the PIU, EA, IA, and contractors in understanding and implementing the road management contracts
Contractors	• Detailed design based on the level-2 design for conventional road contract packages, or the conceptual design for the road management contract packages • Deliver the physical works as required in the conventional road contract, or the level of services as required in the road management contract • For the road management contract packages, the work includes various asset management tasks • Implementing safeguard requirements in the contract

CRC = conventional road contract, EA = executing agency, IA = implementing agency, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

4. Among other scopes of the consulting services, the main task of the PIC (CRC) is to assist the RDA in supervising and/or implementing the civil works in the CRC component of the iRoad investment program.

5. In the CRC component, conventional measure and value contracts, requiring detailed contract supervision, will be used for the rehabilitation of approximately 960 kilometers of provincial and rural roads. Initial construction is to be completed in the first 2 years, followed by a 3-year maintenance period. The roads under the contract packages will be isolated lengths of roads dispersed across the North Central and North Western provinces.

II. SCOPE OF SERVICES

6. **Project implementation in North Central and North Western provinces.** The contract packages of civil works to be monitored and supervised by the PIC are listed in Table C-3.2 below.

Table C-3.2: Contract Packages in North Central and North Western Provinces

Contract Package	Description	District	Length (km)	Construction (months)	PBM (months)
Conventional Road Contracts					
RDA/ADB/iRoad/NC/RR (A1)	Improving and maintaining approximately 80 km of rural access roads in 8 DS Divisions	Anuradhapura	80	24	36
RDA/ADB/iRoad/NC/RR (A2)	Improving and maintaining approximately 80 km of rural access roads in 8 DS Divisions	Anuradhapura	80	24	36
RDA/ADB/iRoad/NC/RR (A3)	Improving and maintaining approximately 80 km of rural access roads in 7 DS Divisions	Anuradhapura	80	24	36
RDA/ADB/iRoad/NC/RR (P1)	Improving and maintaining approximately 80 km of rural access roads in 3 DS Divisions	Pollannaruwa	80	24	36
RDA/ADB/iRoad/NC/RR (P2)	Improving and maintaining approximately 80 km of rural access roads in 2 DS Divisions	Pollannaruwa	80	24	36
RDA/ADB/iRoad/NC/RR (P3)	Improving and maintaining approximately 80 km of rural access roads in 2 DS Divisions	Pollannaruwa	80	24	36
RDA/ADB/iRoad/NW/RR (K1)	Improving and maintaining approximately 80 km of rural access roads in 10 DS Divisions	Kurunegala	80	24	36
RDA/ADB/iRoad/NW/RR (K2)	Improving and maintaining approximately 80 km of rural access roads in 10 DS Divisions	Kurunegala	80	24	36
RDA/ADB/iRoad/NW/RR (K3)	Improving and maintaining approximately 80 km of rural access roads in 10 DS Divisions	Kurunegala	80	24	36
RDA/ADB/iRoad/NW/RR (P1)	Improving and maintaining approximately 80 km of rural access roads in 6 DS Divisions	Puttalam	80	24	36
RDA/ADB/iRoad/NW/RR (P2)	Improving and maintaining approximately 80 km of rural access roads in 5 DS Divisions	Puttalam	80	24	36
RDA/ADB/iRoad/NW/RR (P3)	Improving and maintaining approximately 80 km of rural access roads in 5 DS Divisions	Puttalam	80	24	36

ADB = Asian Development Bank, iRoad = Integrated Road Investment Program, DS = Divisional Secretariat, km = kilometer, NC = North Central Province, NW = North Western Province, PBM = performance-based management, RDA = Road Development Authority, RR = rural road.

7. The PIC will assist the PIU in the implementation of the contracts, including site supervision of construction activities, monitoring of maintenance performance, and other due diligence as defined in further detail below.

8. Following is the indicative timeline for implementation of the physical works (Table C-3.3):

Table C-3.3: Contract Timeline Implementation

Item	CRC Packages
Physical works commence	January 2015
Duration of rehabilitation works	2 years
End of maintenance period	3 years from end of physical works

CRC = conventional road contract.

III. OUTLINE TERMS OF REFERENCE

9. A team of consultants (the Consultant) will be engaged to act as the “Engineer” on behalf of the employer in relation to the contract. The Consultant will also be required to discharge other responsibilities outlined in the TOR.

10. The Consultant shall use the most up-to-date software and technology for administration of the construction contracts. The Consultant shall ensure that all electronic files in relation to the deliverables of this TOR are in a format compatible with those used by the EA. The EA uses the Microsoft Office suite of software, ArcGIS for geographic information system applications, and AutoCad for drawings. Further clarification on any aspect of this requirement can be obtained from the PIU. While all files are to be provided in soft copy, hard copies of reports are also required as defined under section V below of this TOR. Subject to request by the PIU, some reports should also be provided in PDF format.

A. Project Implementation in North Central and North Western Provinces

11. Civil works under the CRC packages will be carried out based on the International Federation of Consulting Engineers (FIDIC) contract, MDB Harmonised Edition (June 2010).

12. The PIC will (i) undertake contract administration based on the FIDIC contract; (ii) undertake safeguards compliance and ensure that all safeguards (social, environmental, and indigenous peoples) are being complied under the project; (iii) undertake the Project Performance and Monitoring Survey 3 times—at the start of the project, at midterm, and at the end of the project; (iv) prepare and implement a capacity development program on project management and contract administration, including training, workshops, and seminars for the staff of MOHEH, the RDA, and provincial and local road agencies; (v) prepare monthly reports on progress and other issues; and (vi) prepare a project completion report when the project is substantially completed, incorporating comments from the PIU, the IA, the EA, and ADB.

13. The PIC will administer the construction contracts and ensure that the contractual clauses for both quality and specifications of works are complied with, and the works are constructed in accordance with the provisions of the construction contracts.

14. The PIC, while supervising construction works, will make all necessary arrangements for implementation of quality assurance and quality control plans following industry standards and best practices. The Consultant, in consultation with the PIU and the EA, will make all engineering decisions required for the successful and timely completion of the construction contracts, and will have all the powers defined as those of the Engineer under FIDIC.

IV. INPUTS AND QUALIFICATIONS OF KEY POSITIONS

15. The consulting services will be carried out by a team of international and national consultants. A total of 36 person-months of international consultant inputs and 680 person-months

of national consultant inputs will be required in a period of 63 months (actual duration of service shall be in line with the schedule of civil works). All experts, international and national, must be proficient in both written and spoken English. The key and non-key positions are given in Table C-3.4 below.

Table C-3.4: Consultancy Positions

Position	No.	Input	Total
		(person-month)	
International Experts			
Team Leader/Chief Resident Engineer	1	30	30
FIDIC Contract and Claims Specialist	1	6	6
Subtotal	2		36
National Experts			
For the Construction Period			
Resident Engineer – NC/RR (A1), (A2), (A3)	1	27	27
Resident Engineer – NC/RR (P1), (P2), (P3)	1	27	27
Resident Engineer – NW/RR (K1), (K2), (K3)	1	27	27
Resident Engineer – NW/RR (P1), (P2), (P3)	1	27	27
Rural Road Design and Safety Engineer	2	28	56
Structural Engineer	1	6	6
Material Engineer	4	24	96
Quantity Surveyor	4	27	108
Environmental Specialist	1	30	30
Social/Gender/Resettlement Specialist	1	30	30
Land Surveyor	4	12	48
Contract and Claims Engineer	1	30	30
Assistant Resident Engineer	4	24	96
Subtotal	28		680
For the Maintenance Period (all NW & NC/RR Contracts)			
Resident Engineer	1	36	36
Quantity Surveyor	1	36	36
Non-key Experts			
Junior Engineers	13	24	312
Technical Officers	24	24	576
Subtotal	37		888
Total	63		1,604

RR = rural road, NC = North Central Province, NW = North Western Province.

Notes:

1. Curriculum vitae (CV) of Junior Engineers and Technical Officers (National) are not required for inclusion in the proposal and will not be evaluated. However, CVs must be submitted to the client for approval prior to mobilization.
2. The estimated person-months are indicative, and the actual will vary based on actual duration of works and will be paid on actual time basis. As common basis for financial proposal, the Consultant must use the staff person-months indicated in the table above.
3. FIDIC Contract and Claims Specialist (International) will be mobilized on as-needed basis. His/her CV is required for inclusion in the technical proposal and will be evaluated.

16. The Consultant is required to propose the assignment of experts in accordance with the scope of work and expected deliverables. The qualifications and responsibilities of key positions are described as follows. Regional and country experience of the international staff is preferable.

17. **Team Leader/Chief Resident Engineer** shall be responsible for the overall tasks as defined here under the scope. He/she shall hold at minimum a bachelor's degree in civil engineering and preferably a master's degree in road engineering/contracts management. He/she

shall have minimum 20-year experience in road construction. He/she shall be familiar with various international standards for design and construction (FIDIC), including stage of works and methods of construction such as temporary works, construction plans, schedules, construction method, assignments of equipment and personnel, testing and trials, and drawings.

18. The Team Leader will (i) maintain records and advise the PIU on the day-to-day coordination and supervision of the project and its components, including the preparation of regular progress reports; (ii) coordinate and review updated designs and cost estimates as required by the contract; (iii) coordinate and supervise the work of field teams in supervising and certifying construction in accordance with contract conditions; (iv) coordinate and liaise with the employer, attend meetings arranged by the employer, and update the employer regularly on progress of work, delays, and variations, and recommend remedial measures; (v) submit to the employer and obtain the approval on variation, extension of time, and other specific items defined in the Particular Conditions of Contract; and (vii) chair the site progress review meeting. He/she will ensure that the safeguard aspects under the project are being complied. He/she will ensure that the specifications under the contract are being met, and quality is maintained.

19. **FIDIC Contract and Claims Specialist** shall have a bachelor's degree in engineering with minimum 15-year experience in road works contract administration, including FIDIC contract administration. He/she will (i) evaluate and settle variations and standard format of claims, and (ii) guide the employer in case of disputes by the contractor on claims settlement.

20. **Resident Engineers (for the construction period)** shall assist the Team Leader in the coordination and supervision of road construction works in the field. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road construction. He/she will conduct day-to-day construction supervision, monitor schedules, prepare monthly certificates, review and approve shop drawings and as-built drawings, and issue site instructions in consultation with the Team Leader. He/she will timely inform the Team Leader on issues relating to the quality of works, progress of work, and any other constraints affecting the work.

21. **Assistant Resident Engineers** shall assist the Resident Engineers in the coordination and supervision of the road construction works in the field. The Assistant Resident Engineer shall have a bachelor's degree in civil engineering with minimum 5-year experience in road construction. He/she will assist Resident Engineers in day-to-day construction supervision, monitoring schedules, checking monthly certificates, and reviewing shop drawings and as-built drawings.

22. **Rural Road Design and Safety Engineer** shall have a bachelor's degree in civil engineering, professionally qualified with 8-year experience in road design, especially in asphalt pavement design and construction of roads. He/she will assist the Resident Engineer in reviewing the rural road and pavement designs by the CRC contractors, checking design centerline set-out and making necessary adjustments, and issuing instructions to the contractors.

23. He/she will also conduct systematic road safety audits (RSA) of 10% of preliminary design and 10% of detailed design, including preparation of formal RSA and safety check reports; conduct systematic road safety inspections (RSI) on a randomly selected sample of roads under maintenance, and document issues and countermeasures; prepare semestral summary road safety monitoring reports; provide training and support to the PIU; assist the PIU with road safety complaints and accident investigations; and assess the effectiveness of RSA procedures and recommend improvements as needed.

24. **Structural Engineer** shall assist the Resident Engineer in ensuring that the design complies with technical and safety standards. The bridge engineer shall have a bachelor's degree in civil engineering with minimum 8-year experience in bridge construction supervision. He/she will update designs and cost estimates prepared by the design consultants, supervise the bridge constructions, and assist the Resident Engineer in issuing instructions to the contractors.

25. **Material Engineers** shall have a bachelor's degree in civil engineering with minimum 5-year experience or a national certificate in civil engineering with minimum 10-year experience in major road construction works especially in material testing. He/she will undertake day-to-day supervision of compliance to material specifications and testing; supervise the contractors' work; and certify the construction in accordance with contract conditions, including acceptance standards of materials, approval of source supply, and material testing methods.

26. **Quantity Surveyor (for the construction period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying of major projects. He/she shall check and recommend the payment certificates, maintain measurement records, and review and update the estimates as required. He/she will assist the Resident Engineer in checking the quantity, variations, and justification.

27. **Land Surveyor** shall be a qualified surveyor with minimum 10-year field experience. He/she shall assist the Resident Engineer in ensuring that the setting-outs are checked and assist in adjusting the profiles to suit the site conditions. He/she shall continuously check the contractors' setting-outs and approve these, and ensure the designed centerline fixed complies with technical and safety standards.

28. **Contract and Claims Engineer** shall have a bachelor's degree in civil engineering with minimum 15-year experience in road contract administration, including FIDIC contract administration, and minimum 5-year experience as a contract engineer. He/she will (i) evaluate and settle variations and standard format of claims; (ii) advise the Chief Resident Engineer and Resident Engineers (CRE/RE) on potential claims; (iii) assist the contract specialist in evaluating claims and variations; (iv) assist the CRE/RE in responding to the contractors on contractual matters; (v) guide the employer in case of disputes by the contractor on claims settlement; and (vi) assist the employer in establishing a dispute resolution board.

29. **Environmental Specialist** shall have a master's degree in environmental science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring environmental management schemes associated with infrastructure projects. He/she will (i) assist in reviewing the environmental checklists and contract package specific environmental management plans (EMP) for all project roads and ensure that they have been prepared in accordance with the requirements of the environmental assessment and review framework (EARF) for all tranches; (ii) during the preparation of the subsequent tranche, ensure all nominated roads comply with the selection criteria provided in the EARF and prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iii) check compliance of (a) the initial environmental examination (IEE) and standard EMP prepared by the survey and preliminary engineering (SAPE) team with the requirements of the EARF, and (b) the contract package specific EMP with the requirements of the EARF and the respective province-level IEE; (iv) provide technical advice to the contractor and conduct on-the-job training as necessary; and (v) prepare monitoring reports on an annual basis based on monitoring checklists completed for each project road during pre-construction, construction, and

post-construction or operation stages.

30. **Social/Gender/Resettlement Specialist** shall have a master's degree in social science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring social development schemes associated with infrastructure projects. He/she will (i) ensure compliance of all preliminary designs of rural road and national road projects prepared by the SAPE consultant in accordance with the resettlement framework for all tranches; (ii) check and ensure that the detail design prepared by civil works contractors have incorporated feasible features based on the outcome from transect walks; (iii) during the preparation of the subsequent tranche, prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iv) monitor and evaluate the implementation of the community participation process prescribed in the resettlement framework and recommend improvements to the participatory process to ensure broader participation of the rural population in project road formulation; (v) for rural roads that require land donation, monitor the land donation process and conduct field visits on a monthly basis until the land donation is finalized; (vi) during the construction phase, conduct monitoring of all project roads and prepare monitoring reports on a biannual basis for all project tranches; and (vii) during the maintenance phase, conduct monitoring of all project roads and prepare monitoring reports on an annual basis for all project tranches.

31. He/she will also (i) provide training and support to the PIU on implementing the gender action plan (GAP) activities at the field level; (ii) lead the implementation of specific gender-mainstreaming activities as detailed in the GAP; and (iii) monitor and report the overall implementation of relevant activities included in the GAP for all tranches on a semi-annual basis.

32. **Resident Engineer (for the maintenance period)** shall coordinate and supervise post-construction road maintenance work. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road maintenance.

33. **Quantity Surveyor (for the maintenance period)** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying.

34. **Junior Engineers** shall hold a bachelor's degree in civil engineering and minimum 3-year experience. He/she will assist the Chief Resident Engineer, Resident Engineers, and Assistant Resident Engineers on day-to-day works.

35. **Technical Officers** shall have a national diploma in civil engineering with minimum 8-year experience in road construction works especially in workmanship and construction methods. He/she shall ensure the construction works are carried out according to the drawings and specifications, take measurements of daily work done, and coordinate and liaise with the Land Surveyor and the Material Engineer in checking and testing.

V. OUTPUT AND REPORTING REQUIREMENTS

36. The Consultant will prepare reports, including monthly reports, on the project progress in a format and level of detail agreed with the IA and ADB. The Consultant will maintain records documenting information supplied by the field teams, decisions made at meetings, progress on civil works, certified achievements and milestones, financial records, and any deviations from or changes to the contract plans. The Consultant will assist the PMU/PIU in preparing quarterly progress reports; safeguard compliance reports, including sections on environment, social, and gender; a project completion report; and monitoring and evaluation reports as required under the

contract. The Consultant will also undertake surveys, design reviews and workshops, and submit relevant reports.

37. The Consultant will submit reports in hard copy and soft copy as follows (Table C-3.5):

Table C-3.5: Reporting Requirements

Deliverables	Deadline	Copies
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Monthly Report on CRC Packages	Within 2 weeks of end of month	5
Project Completion Report	By project completion	7
Draft PFR for iRoad (up to 10 PFRs)	Upon RDA's request	5
Special Reports as requested by RDA	Upon RDA's request	5

CRC = conventional road contract, iRoad = Integrated Road Investment Program, PFR = periodic financing request, RDA = Road Development Authority.

VI. EXTENSION OF CONSULTING SERVICES

38. The PIC contract may be extended for project implementation support in successive tranches of the MFF, subject to evaluation by the Steering Committee of the government and agreement by ADB. The Steering Committee of the government shall determine whether the Consultant shall conduct the successive services based on the assessment of the Consultant's performance.

**Outline Terms of Reference:
Project Implementation Consultants (Monitoring Consultants)
for Road Management Contracts**

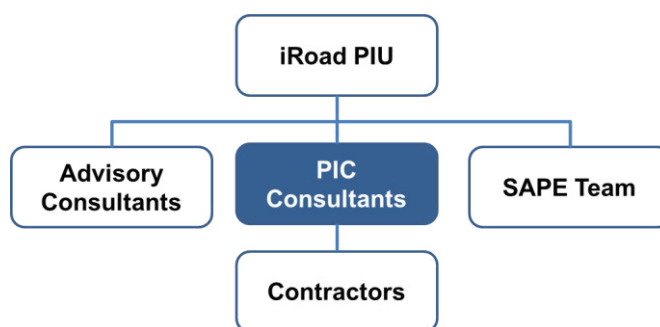
I. BACKGROUND

1. The Democratic Socialist Republic of Sri Lanka is applying for a multitranche financing facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank (ADB). The MFF will comprise a series of loans to improve the access routes between rural areas and socioeconomic centers, in tranches. Part of these funds shall be used for providing consulting services for project implementation.

2. There are two types of contracts for civil works in the iRoad investment program:

- (i) **Conventional road contracts (CRC).** The conventional measure and value contracts, requiring detailed contract supervision, will be used for the rehabilitation of approximately 600 kilometers (km) of provincial, rural, and selected national roads. Initial construction is to be completed in the first 1–2 years, followed by a 3-year maintenance period. The roads under the contract packages will be isolated lengths of roads dispersed across Southern Province.
- (ii) **Road management contracts (RMC).** The RMC is based on the sample bidding documents developed by the World Bank for output- and performance-based road contracts.¹ Within each package, a significant proportion will require rehabilitation in the first 1–2 years, with the remainder possibly requiring periodic resurfacing throughout the contract period (7 years in total). Routine maintenance of the entire length throughout the contract period is part of the work. In Southern Province, two RMC packages will be implemented, which comprise about 115 km of national roads, with about 70 km requiring rehabilitation in the first 1–2 years.

3. The executing agency (EA) of the iRoad Investment Program is the Ministry of Higher Education and Highways (MOHEH), and the implementing agency (IA) is the Road Development Authority (RDA). A project implementation consultant (PIC) is to be engaged. The overall project organizational chart is shown below.



iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, SAPE = survey and preliminary engineering.

¹ World Bank. 2006. *Procurement of Works and Services under Output- and Performance-based Road Contracts and Sample Specifications*. Washington, DC.

4. The general roles and responsibilities of the various parties involved in the investment program are defined under Table C-4.1.

Table C-4.1: Roles and Responsibilities of iRoad Parties

iRoad Participant	General Role and Responsibility
iRoad PIU	• Project and safeguard management • Approval of all variations of contracts for consulting services and civil works
Advisory Consultants	• Facilitating the PIU in areas requiring special expertise to achieve the program objectives, e.g., road asset management, output- and performance-based road contract, and institutional matters, etc.
SAPE Team	• Feasibility study, safeguard documents, and level-2 designs • Community consultation along project roads
PIC (CRC)	• Reviewing and confirming the design and scope of works when the contractors apply the level-2 designs to the roads under conventional road contract packages • Construction supervision of conventional road contract packages • Supervision of post-construction maintenance work in conventional road contract packages • Monitoring safeguard activities • Providing on-the-job training to the PIU, EA, IA, and provincial and local road agencies in project management and contract administration
PIC (RMC)	• Supervision and monitoring of construction in road management contracts • Supervision and monitoring of post-construction maintenance in road management contracts • Monitoring safeguard activities • Assist the PIU in contract administration of the road management contracts • Providing support to the PIU, EA, IA, and contractors in understanding and implementing the road management contracts
Contractors	• Detailed design based on the level-2 design for conventional road contract packages, or the conceptual design for the road management contract packages • Deliver the physical works as required in the conventional road contract, or the level of services as required in the road management contract • For the road management contract packages, the work includes various asset management tasks • Implementing safeguard requirements in the contract

CRC = conventional road contract, EA = executing agency, IA = implementing agency, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

II. SCOPE OF SERVICES

5. The PIC will assist the RDA on RMC packages on two tasks: (i) project implementation in Southern Province, and (ii) project preparation and implementation in five other provinces.

6. **Task 1: Project implementation in Southern Province.** Two RMC packages will be monitored and supervised by the PIC (Table C-4.2).

Table C-4.2: RMC Packages in Southern Province

Contract Package	Description	District	Length (km)	Heading (deg)
RMC-SP1	Rehabilitating and/or maintaining 61 km of national roads in Galle District	Galle	61	84
RMC-SP2	Rehabilitating and/or maintaining 54 km of national roads in Matara and Hambantota Districts	Matara and Hambantota	54	84

km = kilometer, deg = degrees, RMC = road management contract, SP = Southern Province.

7. The PIC will assist the project implementation unit (PIU) in the implementation of the contracts, including site supervision of construction activities, monitoring of maintenance performance, and technical support for the RMC initiatives, and other due diligence as defined in further detail below.

8. **Task 2: Preparation and implementation of six new RMC packages.** The PIC will assist the RDA in preparing six new RMC packages and undertaking the procurement and implementation of the packages in Central Province, North Central Province, North Western Province, Sabaragamuwa Province, and Western Province.

9. Following is the indicative timeline for implementation of the physical works for all the RMC packages (Table C-4.3):

Table C-4.3: Contract Timeline Implementation

	RMC Packages in Southern Province	Six New RMC Packages
Physical works commence	July 2015	July 2016
Duration of rehabilitation works	1–2 years	1–2 years
End of maintenance period	7 years from start of contract period	7 years from start of contract period

RMC = road management contract.

III. OUTLINE TERMS OF REFERENCE

10. A team of consultants (the Consultant) will be engaged to act as the “Engineer” on behalf of the employer. The PIC will be organized into two task teams under the Team Leader. Each team will have a Task Leader who will be responsible to the Team Leader for the management and coordination of the task team. Details of the role, composition, and duties of each team are provided in section IV below. The task teams include (i) Task 1: Project Implementation, led by the Team Leader who serves concurrently as Task Leader; and (ii) Task 2: Project Preparation, led by a Transport Project Specialist. While the Consultant’s staff may work across both tasks, the Task Leaders will be dedicated to their respective tasks.

11. The Consultant shall use the most up-to-date software and technology for administration of the construction contracts. The Consultant shall ensure that all electronic files in relation to the deliverables of this TOR are in a format compatible with those used by the EA. The EA uses the Microsoft Office suite of software, ArcGIS for geographic information system applications, and AutoCad for drawings. Further clarification on any aspect of this requirement can be obtained from the PIU. While all files are to be provided in soft copy, hard copies of reports are also required as defined under section V below of this TOR. Subject to request by the PIU, some reports should also be provided in PDF format.

A. Task 1: Project Implementation in Southern Province

12. Civil works under the RMC packages will be carried out based on the output- and performance-based road contract developed by the World Bank (2006).

13. The key tasks of the PIC in relation to the RMC packages include the following:

- (i) **Supervision of output-based works (rehabilitation and resurfacing).** The PIC will undertake sufficient supervision of the rehabilitation and resurfacing works to ensure all work is completed to the necessary quality and design standards, including safeguard requirements. Supervision will extend to material testing and confirmation of the extent of works completed in order to certify payment requests.
- (ii) **Monthly combined inspections.** Combined inspections, i.e., by the PIU, the PIC, and the contractor, will be undertaken every month and night-time inspections will be undertaken every 3 months.
- (iii) **Auditing of roads (maintenance activities).** For the first 3 years of the RMC packages, the PIC is required to audit 100% of each RMC package each month to measure conformance with the required RMC maintenance standards. Beyond 3 years, the audit requirement for the PIC may be reduced to a random 50% sample based on a series of 5-km length of the road.
- (iv) **Auditing of all data from RMC and loading into RDA systems.** The RMC contractor is required to provide the client with various data items regarding the condition and works completed on the network. Prior to loading the data into the client's information management system(s), the PIC is to undertake a sufficient level of auditing to confirm that the data are accurate and complete.
- (v) **Recommendations on payment.** Based on the findings from the various inspections/audits, and the extent of the works completed, the Consultant is to make a recommendation to the Project Director with regard to the appropriate monthly payment that the contractor is to receive (in accordance with the contractor's contract).
- (vi) **Reporting.** The PIC is required to report monthly on the progress and performance of the RMC packages. Additionally, an annual report is required to summarize the prior year's achievements and plans for the year ahead.
- (vii) **Uploading data and reports to the information center and client information systems.** The PIC is responsible for the uploading of all data and soft copies of reports to the appropriate client systems. These systems include the iRoad Information Center and the Highway Information Management System (HIMS).
- (viii) **General support and "championing" for RMC.** It is recognized that there are challenges in introducing a new contractual model into a marketplace and part of the Consultant's role is to help promote a greater understanding of the nuances of the model. This role may involve coaching of the contractor, the PIU, the RDA, and MOHEH in various aspects of the RMC to ensure that the best possible chance of a successful outcome is achieved.

B. Task 2: Preparation and Implementation of Six New RMC packages

14. The PIC will also assist the PIU and the RDA in (i) reviewing the lessons of preparing and implementing the two RMC packages in Southern Province; (ii) reviewing and validating the cost estimates and preliminary design of the six new contract packages produced by the RDA's survey and preliminary engineering (SAPE) team; (iii) preparing bidding documents; (iv) providing technical support in the procurement; and (v) implementing the six packages as described in task 1.

IV. INPUTS AND QUALIFICATIONS OF KEY POSITIONS

15. The consulting services will be carried out by a team of international and national consultants. A total of 86 person-months of international consultant inputs and 968 person-months of national consultant inputs will be required in a period of 84 months (actual duration of service shall be in line with the schedule of civil works). All experts, international and national, must be proficient in both written and spoken English. The key and non-key positions are given in Table C-4.4 below.

Table C-4.4: Consultancy Positions

Position	No.	Input	Total
		(person-month)	
International Experts			
Team Leader/Chief Resident Engineer	1	48	48
Road Management Contract Specialist	1	12	12
Subtotal	4		60
National Experts			
Resident Engineer	8	72	576
National Road Design and Safety Engineer	1	28	28
Structural Engineer	1	6	6
Material Engineer	4	24	96
Environmental Specialist	1	30	30
Social/Gender/Resettlement Specialist	1	30	30
Quantity Surveyor	3	12	36
Land Surveyor	3	12	36
Contract Engineer	1	24	24
Assistant Resident Engineer	6	36	216
Subtotal	26		1078
Non-key Experts			
Junior Engineers	15	24	360
Technical Officers	15	24	360
Subtotal	30		720
Total	60		1858

Notes:

1. Curriculum vitae (CV) of Junior Engineers and Technical Officers (National) are not required for inclusion in the proposal and will not be evaluated. However, CVs must be submitted to the client for approval prior to mobilization.
2. The estimated person-months are indicative, and the actual will vary based on actual duration of works and will be paid on actual time basis. As common basis for financial proposal, the Consultant must use the staff person-months indicated in the table above.
3. Resident Engineers and Quantity Surveyors will provide intermittent service during the defects and liability period and the maintenance period.
4. FIDIC Contract Specialist (International Expert) and Transport Project Specialist (International Expert) will be mobilized on as-needed basis. Their CVs are required for inclusion in the technical proposal and will be evaluated.

16. The Consultant is required to propose the assignment of experts in accordance with the scope of work and expected deliverables. The qualifications and responsibilities of key positions are described as follows. Regional and country experience of the international staff is preferable.

17. **Team Leader/Chief Resident Engineer** shall serve as chief resident engineer for the RMC packages, manage the PIC's inputs for the RMC packages, supervise and mentor the works to be done by RMC contractors, provide technical support to the PIU and the RDA on all aspects of the contract model, and assist the RDA in preparing bidding documents for 6 to 8 additional RMC packages. He/she shall hold at minimum a bachelor's degree in civil engineering and preferably a master's degree in road engineering/contracts management. He/she shall have minimum 15-year experience in road rehabilitation or maintenance contracting, and at least 10-year experience in the implementation of output- and performance-based road contracts (or similar contracts).

18. The Team Leader will (i) maintain records and advise the PIU on the day-to-day coordination and supervision of the project and its components, including the preparation of regular progress reports; (ii) coordinate and review updated designs and cost estimates prepared by the design consultants; (iii) coordinate and supervise the work of field teams in supervising and certifying construction in accordance with contract conditions; (iv) coordinate and liaise with the employer, attend meetings arranged by the employer, and update the employer regularly on progress of work, delays, and variations, and recommend the remedial measures; (v) submit to the employer and obtain the approval on variation, extension of time, and other specific items defined in the Particular Conditions of Contract; and (vii) chair the site progress review meeting. He/she will ensure that the safeguard aspects under the project are being complied. He/she will ensure that the specifications under the contract are being met, and quality is maintained.

19. **Road Management Contract Specialist** shall hold at minimum a bachelor's degree in civil engineering and preferably a master's degree in road engineering/contracts management. He/she shall have minimum 15-year experience in road rehabilitation or maintenance contracting, and at least 10-year experience in the preparation and procurement of output- and performance-based road contracts (or similar contracts).

20. The RMC Specialist will (i) assist the RDA in preparing six road management contract packages under the investment program; (ii) provide technical assistance to the RDA and the PIU during the tendering process; (iii) advise the RDA on capacity development, which is required to mainstream the road management contracts into RDA operations; (iv) advise the RDA and the PIU on supervising the road management contracts; and (v) provide trainings to the RDA, consultants, and contractors on implementing road management contracts.

21. **Resident Engineers** shall assist the Team Leader in the coordination and supervision of road construction and maintenance works in the field. The Resident Engineer shall have a bachelor's degree in civil engineering with minimum 10-year experience in road construction. He/she will conduct day-to-day construction supervision, monitor schedules, prepare monthly certificates, review and approve shop drawings and as-built drawings, and issue site instructions in consultation with the Team Leader. He/she shall timely inform the Team Leader on issues relating to the quality of works, progress of work, and any other constraints affecting the work.

22. **Assistant Resident Engineers** shall assist the Resident Engineers in the coordination and supervision of the road construction works in the field. The Assistant Resident Engineer shall have a bachelor's degree in civil engineering with minimum 5-year experience in road

construction. He/she will assist Resident Engineers in day-to-day construction supervision, monitoring schedules, checking monthly certificates, and reviewing shop drawings and as-built drawings.

23. **National Road Design and Safety Engineer** shall have a bachelor's degree in civil engineering, professionally qualified with 8-year experience in road design, especially in asphalt pavement design and construction of roads. He/she will assist the Resident Engineer in reviewing the national road and pavement designs by the RMC contractors, checking design centerline set-out and making necessary adjustments, and issuing instructions to the contractors.

24. He/she will also conduct systematic road safety audits (RSA) of 10% of preliminary design and 10% of detailed design, including preparation of formal RSA and safety check reports; conduct systematic road safety inspections (RSI) on a randomly selected sample of roads under maintenance, and document issues and countermeasures; prepare semestral summary road safety monitoring reports; provide training and support to the PIU; assist the PIU with road safety complaints and accident investigations; and assess the effectiveness of RSA procedures and recommend improvements as needed.

25. **Structural Engineer** shall assist the Resident Engineer in ensuring that the design complies with technical and safety standards. The bridge engineer shall have a bachelor's degree in civil engineering with minimum 8-year experience in bridge construction supervision. He/she will update designs and cost estimates prepared by the design consultants, supervise the bridge constructions, and assist the Resident Engineer in issuing instructions to the contractors.

26. **Material Engineers** shall have a bachelor's degree in civil engineering with minimum 5-year experience or a national certificate in civil engineering with minimum 10-year experience in major road construction works especially in material testing. He/she will undertake day-to-day supervision of compliance to material specifications and testing; supervise the contractors' work; and certify the construction in accordance with contract conditions, including acceptance standards of materials, approval of source supply, and material testing methods.

27. **Quantity Surveyor** shall have a bachelor's degree in quantity surveying with minimum 4-year experience or a national diploma/certificate with minimum 7-year experience in quantity surveying of major projects. He/she shall check and recommend the payment certificates, maintain measurement records, and review and update the estimates as required. He/she will assist the Resident Engineer in checking the quantity, variations, and justification.

28. **Land Surveyor** shall be a qualified surveyor with minimum 10-year field experience. He/she shall assist the Resident Engineer in ensuring that the setting-outs are checked and assist in adjusting the profiles to suit the site conditions. He/she shall continuously check the contractors' setting-outs and approve these, and ensure the designed centerline fixed complies with technical and safety standards.

29. **Contract Engineer** shall have a bachelor's degree in civil engineering with minimum 15-year experience in road contract administration, including FIDIC contract administration, and minimum 5-year experience as a contract engineer. He/she will (i) evaluate and settle variations and standard format of claims; (ii) advise the Chief Resident Engineer and Resident Engineers (CRE/RE) on potential claims; (iii) assist the contract specialist in evaluating claims and variations; (iv) assist the CRE/RE in responding to the contractors on contractual matters; (v) guide the employer in case of disputes by the contractor on claims settlement; and (vi) assist the employer in establishing a dispute resolution board.

30. **Environmental Specialist** shall have a master's degree in environmental science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring associated with infrastructure projects. He/she will (i) assist in reviewing the environmental checklists and contract package specific EMPs for all project roads and ensure that they have been prepared in accordance with the requirements of the environmental assessment and review framework (EARF) for all tranches; (ii) during the preparation of the subsequent tranche, ensure all nominated roads comply with the selection criteria provided in the EARF and prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iii) check compliance of (a) the initial environmental examination (IEE) and standard EMP prepared by the survey and preliminary engineering (SAPE) team with the requirements of the EARF, and (b) the contract package specific EMP with the requirements of the EARF and the respective province-level IEE; (iv) provide technical advice to the contractor and conduct on-the-job training as necessary; and (v) prepare monitoring reports on an annual basis based on monitoring checklists completed for each project road during pre-construction, construction, and post-construction or operation stages.

31. **Social/Gender/Resettlement Specialist** shall have a master's degree in social science or equivalent, and have at least 10-year experience in preparing, implementing, and monitoring social development schemes associated with infrastructure projects. He/she will (i) ensure compliance of all preliminary designs of rural road and national road projects prepared by the SAPE consultant in accordance with the resettlement framework for all tranches; (ii) check and ensure that the detail design prepared by civil works contractors have incorporated feasible features based on the outcome from transect walks; (iii) during the preparation of the subsequent tranche, prepare due diligence reports on 20% of randomly selected sample of roads for all ongoing project tranches; (iv) monitor and evaluate the implementation of the community participation process prescribed in the resettlement framework and recommend improvements to the participatory process to ensure broader participation of the rural population in project road formulation; (v) for rural roads that require land donation, monitor the land donation process and conduct field visits on a monthly basis until the land donation is finalized; (vi) during the construction phase, conduct monitoring of all project roads and prepare monitoring reports on a biannual basis for all project tranches; and (vii) during the maintenance phase, conduct monitoring of all project roads and prepare monitoring reports on an annual basis for all project tranches.

32. He/she will also (i) provide training and support to the PIU on implementing the gender action plan (GAP) activities at the field level; (ii) lead the implementation of specific gender-mainstreaming activities as detailed in the GAP; and (iii) monitor and report the overall implementation of relevant activities included in the GAP for all tranches on a semi-annual basis.

33. **Junior Engineers** shall hold a bachelor's degree in civil engineering and minimum 3-year experience. He/she will assist the Chief Resident Engineer, Resident Engineers, and Assistant Resident Engineers on day-to-day works.

34. **Technical Officers** shall have a national diploma in civil engineering with minimum 8-year experience in road construction works especially in workmanship and construction methods. He/she shall ensure the construction works are carried out according to the drawings and specifications, take measurements of daily work done, and coordinate and liaise with the Land Surveyor and the Material Engineer in checking and testing.

V. OUTPUT AND REPORTING REQUIREMENTS

35. The Consultant will prepare reports, including monthly reports, on the project progress in a format and level of detail agreed with the IA and ADB. The Consultant will maintain records documenting information supplied by the field teams, decisions made at meetings, progress on civil works, certified achievements and milestones, financial records, and any deviations from or changes to the contract plans. The Consultant will assist the PMU/PIU in preparing quarterly progress reports; safeguard compliance reports, including sections on environment, social, and gender; a project completion report; and monitoring and evaluation reports as required under the contract. The Consultant will also undertake surveys, design reviews and workshops, and submit relevant reports.

36. The Consultant will submit reports in hard copy and soft copy as follows (Table C-4.5):

Table C-4.5: Reporting Requirements

Deliverables	Deadline	Copies
Inception Report	End of month 1	5
Monthly Report on CRC Packages	Within 2 weeks of end of month	5
Monthly Report on each RMC Package	Within 2 weeks of end of month	5
Annual Report on each RMC Package	Within 1 month of end of year	5
Project Completion Report	By project completion	7
Draft PFR for iRoad (up to 10 PFRs)	Upon RDA's request	5
Special Reports as requested by RDA	Upon RDA's request	5

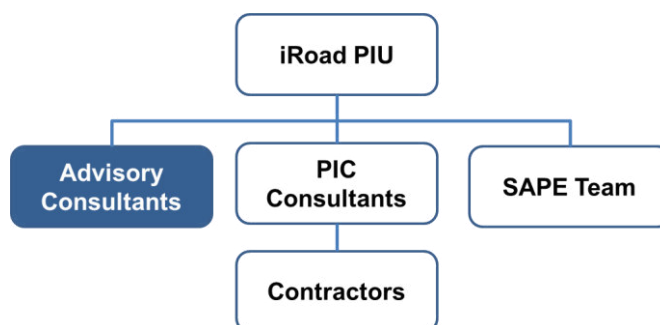
CRC = conventional road contract, iRoad = Integrated Road Investment Program, PFR = periodic financing request, RDA = Road Development Authority, RMC = road management contract.

Outline Terms of Reference for Advisory Consultants

I. BACKGROUND

1. The Democratic Socialist Republic of Sri Lanka is applying for a multitranche financing facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank (ADB). The MFF will comprise a series of loans to improve the access routes between rural areas and socioeconomic centers, in tranches. Part of these funds shall be used for engaging individual consultants with special expertise as advisors to the iRoad project implementation unit (PIU) to facilitate the project implementation and to build the capacities of road agencies involved in the investment program.

2. The executing agency (EA) of the iRoad investment program is the Ministry of Higher Education and Highways (MOHEH), and the implementing agency (IA) is the Road Development Authority (RDA). The overall project organizational chart is shown below.



iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, SAPE = survey and preliminary engineering.

3. The general roles and responsibilities of the various parties involved in the iRoad investment program are defined under Table C-5.1.

Table C-5.1: Roles and Responsibilities of iRoad Parties

iRoad Participant	General Role and Responsibility
iRoad PIU	- Project and safeguard management - Approval of all variations of contracts for consulting services and civil works
Advisory Consultants	Facilitating the PIU in areas requiring special expertise to achieve the program objectives, e.g., road asset management, output- and performance-based road contract, and institutional matters, etc.
SAPE Team	- Feasibility study, safeguard documents, and level-2 designs - Community consultation along project roads
PIC (CRC)	- Reviewing and confirming the design and scope of works when the contractors apply the level-2 designs to the roads under conventional road contract packages - Construction supervision of conventional road contract packages - Supervision of post-construction maintenance work in conventional road contract packages - Monitoring safeguard activities - Providing on-the-job training to the PIU, EA, IA, and provincial and local road agencies in project management and contract administration

iRoad Participant	General Role and Responsibility
PIC (RMC)	• Supervision and monitoring of construction in road management contracts • Supervision and monitoring of post-construction maintenance in road management contracts • Monitoring safeguard activities • Assist the PIU in contract administration of the road management contracts • Providing support to the PIU, EA, IA, and contractors in understanding and implementing the road management contracts
Contractors	• Detailed design based on the level-2 design for conventional road contract packages, or the conceptual design for the road management contract packages • Deliver the physical works as required in the conventional road contract, or the level of services as required in the road management contract • For the road management contract packages, the work includes various asset management tasks • Implementing safeguard requirements in the contract

CRC = conventional road contract, EA = executing agency, IA = implementing agency, iRoad = Integrated Road Investment Program, PIC = project implementation consultant, PIU = project implementation unit, RMC = road management contract, SAPE = survey and preliminary engineering.

II. OUTLINE TERMS OF REFERENCE

A. Institutional Specialist (International, 18 person-months)

4. The consultant should preferably have a bachelor's degree in public administration, civil engineering, or equivalent. He/she should have at least 20 years of relevant experience in the transport sector covering institutional reform and capacity development in road agencies, and preferably in road asset management, project appraisal, project implementation, and contract administration. At least 10 years of the experience should be with the public sector.

5. The consultant will (i) review the reporting and communication practices between the RDA and MOHEH; (ii) assist MOHEH in establishing an asset management unit as the focal point of MOHEH on managing key performance indicators; (iii) consult with the RDA on its business process, institutional capacity, and key performance indicators; (iv) develop a reporting protocol (scope and frequency) from the RDA to MOHEH on asset management related key performance indicators; (v) develop a public communication policy on the road network performance for MOHEH and the RDA; and (vi) assist MOHEH and the RDA in implementing the protocol and policy.

6. The consultant will submit (i) an inception report within 1 month, (ii) a report on the protocol and policy within 3 months, (iii) quarterly reports on the implementation of the protocol and policy, and (iv) a final report within 12 months.

B. Capacity Development Specialist (International, 12 person-months)

7. The consultant should preferably have a bachelor's degree in civil engineering or equivalent. He/she should have at least 15 years of relevant experience in transport project management and contract administration, and at least 5-year experience in capacity development in road agencies.

8. The consultant will (i) assess the capacity of provincial and local road agencies involved

in the iRoad investment program on project selection, project management, and contract administration; (ii) consult with the RDA about its in-house capacity in project management and contract administration; (iii) develop a skill transfer program to allow the RDA and external experts as needed to provide training for the staff of provincial and local road agencies; and (vi) assist MOHEH and the RDA in implementing the skill transfer program.

9. The consultant will submit (i) an inception report within 1 month; (ii) a report on the skill transfer program with activities, implementation schedule, and venues within 3 months; (iii) a summary report of each training event within 3 days of the event; (iv) quarterly reports on the implementation progress of the skill transfer program; and (v) a final report within 24 months.

C. OPRC Road Contract Specialist (International, 12 person-months)

10. The output- and performance-based road contract (OPRC) consultant should preferably have a bachelor's degree in civil engineering or equivalent. He/she should have at least 15 years of relevant experience in the procurement and implementation of civil works in road projects with a focus on OPRC-type projects. He/she should be knowledgeable about internationally accepted OPRC procurement documents. Preference will be for the candidate with experience of working on similar projects financed by international development agencies.

11. The consultant will (i) assist the RDA in preparing six road management contract packages under the iRoad investment program; (ii) provide technical assistance to the RDA and the PIU during the tendering process; (iii) advise the RDA on capacity development, which is required to mainstream the road management contracts into RDA operations; (iv) advise the RDA and the PIU on supervising the road management contracts; and (v) provide trainings to the RDA, consultants, and contractors on implementing road management contracts.

12. The consultant will submit (i) an inception report within 1 month, (ii) quarterly reports, and (iii) a final report within 24 months.

D. Road Asset Management Specialist (International, 12 person-months)

13. The consultant should preferably have a bachelor's degree in civil engineering or equivalent. He/she should have at least 15 years of relevant experience in road asset management. He/she should be knowledgeable about internationally accepted road asset management standards covering data collection and management, strategic planning and programming, road maintenance and rehabilitation plan, and performance-based maintenance. Preference will be for the candidate with experience of working on similar projects financed by international development agencies.

14. The consultant will (i) review the road asset management system of the RDA; (ii) assess the road asset management practice in provincial and local road agencies involved in the iRoad investment program; (iii) develop an action plan to expand the scope of the RDA's road asset management system to cover the provincial and local road network, including the hardware and software requirements; (iv) develop a road asset management business process for the RDA and provincial and local road agencies; (v) assist the RDA and provincial and local road agencies in implementing the action plan and the business process; and (vi) design and provide trainings to the RDA and provincial and local road agencies through the skill transfer program.

15. The consultant will submit (i) an inception report within 1 month, (ii) a report on the action plan and business process within 3 months, (iii) quarterly reports on the implementation of the

protocol and policy, and (iv) a final report within 24 months.

E. Rural Road Specialist (National, 24 person-months)

16. The consultant should have a bachelor's degree in civil engineering or equivalent. He/she should have at least 20 years of relevant experience in Sri Lanka's road sector covering highway engineering, pavement engineering, road design and construction, and rural road design and construction. He/she should be knowledgeable about internationally accepted standards for rural road design and construction. Preference will be for the candidate with experience of working on similar projects financed by international development agencies.

17. The consultant will (i) assess the advantages and disadvantages of the current specifications and standards for the application in the context of the iRoad investment program; (ii) assess the effectiveness of alternative design and construction approaches; (iii) advise the RDA and the PIU on the adequacy of the design prepared by the survey and preliminary engineering (SAPE) team and/or contractors; (iv) assess the appropriateness of performance indicators of rural road maintenance; (v) update the technical specifications for rural road construction and maintenance; (vi) develop and update a database of unit costs for rural road construction and maintenance items in the bill of quantities (BOQ); and (vii) design and provide trainings to the RDA and provincial and local road agencies through the skill transfer program.

18. The consultant will submit (i) an inception report within 1 month, (ii) monthly reports, and (iii) a final report within 24 months.

F. Procurement Specialist (National, 18 person-months)

19. The consultant should preferably have a bachelor's degree in engineering or equivalent. He/she should have at least 10 years of relevant experience in procurement of civil works, goods, and consulting services. At least 5 years of the experience should be with the public sector. He/she should be knowledgeable about ADB's procurement and consultant selection procedures, or similar procedures. Preference will be for the candidate with experience of working on similar projects financed by international development agencies.

20. The consultant will (i) assist the RDA and the PIU in finalizing the procurement documents as per requirements of the RDA and ADB under the iRoad investment program; (ii) advise the RDA and the PIU on procurement-related matters; and (iii) design and provide trainings to the RDA and provincial and local road agencies through the skill transfer program.

21. The consultant will submit (i) monthly reports, and (ii) procurement documents as requested by the PIU.

G. Information Management Specialist (National, 36 person-months)

22. The consultant should preferably have a bachelor's degree in information technology or equivalent. He/she should have at least 5 years of relevant experience in information management, preferably in road asset management, and project management.

23. The consultant will (i) review the file system in the PIU and the RDA and the reporting requirements of the PIU to the RDA and ADB; (ii) assist the PIU in managing an information center to be established for the iRoad investment program; (iii) assist the PIU in updating and disclosing relevant information to the public through internet and mobile applications; (iv) recommend

measures to improve the efficiency of information management, both on hardware and software; and (v) design and provide trainings to the RDA and provincial and local road agencies through the skill transfer program.

24. The consultant will submit (i) monthly reports, and (ii) special reports as requested by the PIU.

SUMMARY OF DESIGN STANDARD AND TECHNICAL APPROACH

I. GENERAL

1. The road network (except for expressways) in Sri Lanka has been classified into five functional classes as defined in Table D.1. The functional classification of the road network is an essential requirement for the determination of the design speed and associated standard requirements of the road alignment cross sectional dimensions and right of way (ROW), etc.

Table D.1: Functional Classification of the Road Network in Sri Lanka

Functional Classification	Description	Jurisdiction
A-Class	These are main arteries or long distance routes for moving traffic between different part of the country, normally the major cities and towns.	Road Development Authority
B-Class	These roads form the next level of hierarchy and distribute traffic between residential areas and industrial areas, and feed the A-Class roads.	Road Development Authority
C-Class	These are the main collectors/distributors within any zone of area that feed the above A-Class roads and B-Class roads.	Respective provincial road agencies
D-Class	These are local roads that provide access to settlements and villages.	D – Respective provincial road agencies
E-Class		E ¹ – Class with respective Pradeshiya Sabha (PS)

2. Normally, A-Class and B-Class roads are considered as national roads, and C-Class and D-Class roads are classified as provincial roads. Basically, all local authority (Pradeshiya Sabha) roads are E-Class roads.

3. Under the proposed Integrated Road Investment Program, provincial and rural roads are to be improved based on detailed design provided by the employer, and national roads are improved and maintained as per the output- and performance-based road contract.

II. DESIGN CRITERIA

4. The design criteria adopted for improvements and rehabilitation of national, provincial, and rural roads are as follows.

A. National Roads

5. **Design standards and guidelines.** The project consists of A-Class and B-Class roads and the applicable design standards and guidelines are the following:

- (i) **Cross section:** (a) Road Design Manual and Bridge Design Manual—RDA's standard; (b) AASHTO—Geometric Design of Highways and Streets 5th edition (2004); (c) TRL—Overseas Road Note 6, A Guide to Geometric Design (1988);

¹ The Road Development Authority now uses E-Class for expressways as well.

and (d) Austroads—Rural Road Design (2003).

- (ii) **Bridges:** RDA's Sri Lanka Bridge Design Manual of 1997, based on the British Standards Code of Practice for Bridge Design (BS5400:1990).
- (iii) **Road pavement:** (a) Transport Research Laboratory's Road Note 31, 4th Edition (TRL-RN31), the basis of RDA's pavement design process; (b) AASHTO Pavement Design Guide; and (c) design life for new pavements: 10-year life with provision for overlays during or at the end of that period to extend the life to 15–20 years.
- (iv) **Drainage:** RDA's standards incorporating relevant standards from AASHTO and the British Standard Design Manual for Roads and Bridges.

6. **Cross section.** Road cross sections vary depending on projected traffic volume, geometric condition, and terrain. Typically, the cross section consists of carriageway 4.5–6.5 meters (m), soft and hard shoulder 1.0–1.5 m each side, with drainage and berm as required. Sidewalks (typically 1.2 m wide) for bridges are considered on a case-by-case basis, depending on bridge length, location, and pedestrian and traffic volume. Use of the existing road corridor (existing road cross section and provision for utilities) is maximized to achieve the optimal combination of economy and desired road improvement without land acquisition.

7. **Alignment and traffic facilities.** In general, the proposed improvements follow the existing horizontal and vertical alignment. The only minor changes are applied to the horizontal alignment for very short sections to enhance road safety, to ease the radius of curves, or to minimize blind spots. The road safety aspects relate mostly to localized sections of the road alignments. In densely populated areas, roads, bridges, and associated sidewalks are made accessible for all, including the disabled.

8. **Road safety.** The road safety aspects are related mostly to localized sections of the alignments. Based on the road safety inspections, carried out on all roads during the field evaluation, the detailed design, wherever possible, incorporates improvements to road width and alignment, including installing precautionary speed signs to slow down for oncoming curves or low speed areas.

9. **Roadside drains.** To minimize storm water flooding or ponding, roadside drains are reconstructed to direct surface flows away from road pavements and to divert these to streams or watercourses. Built-up drains are provided for urban and sub-urban areas; for rural areas, earth drains are provided. For existing built-up drains, which can be retained with minor repairs (retained or repaired), the waterways are restored by removing sediment materials and debris.

10. **Culverts and bridges.** Improvements comprise repairing and/or replacing existing culverts and bridge structures, depending on hydraulic and structural requirements. These interventions include structural renovation of substructure and superstructure elements together with installation or repair of guardrails and improvement of causeways and vented drifts. Depending on the terrain and outcome of hydrological studies, few new culverts are introduced to improve drainage. Materials and construction methods are in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges 1989 (Sri Lanka), modified to suit project requirements.

11. **Earth-retaining structures.** When the road is in an embankment and any widening of the

road involves land acquisition, retaining walls are introduced to get required additional road widths. Gabions, random rubble masonry, and reinforced concrete retaining walls are used. Materials and construction methods are in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges 1989 (Sri Lanka), modified to suit project requirements.

12. **Road pavement.** Road pavements are constructed in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges 1989 (Sri Lanka). Road pavement consists of granular soil sub base, aggregate base course, and asphalt concrete wearing course.

B. Provincial and Pradeshiya Sabha (Local Authority) Roads

13. **Design standards and guidelines.** Provincial and Pradeshiya Sabha (local authority) roads are main collectors/distributors within any zone or area that feed the A-Class and B-Class roads. The applicable design standards and guidelines are the following:

- (i) **Cross section and geometric standards:** (a) Road Design Manual and Bridge Design Manual—RDA's standard; (b) AASHTO—Geometric Design of Highways and Streets 5th edition (2004); (c) TRL—Overseas Road Note 6, A Guide to Geometric Design (1988); and (d) Austroads—Rural Road Design (2003). Final determination of the geometric standards utilized has been based on the estimated AADT for the design life of the structure as given in the ADT groupings <400; up to 1,000; 1000–5000; >5,000.
- (ii) **Bridges:** RDA's Sri Lanka Bridge Design Manual of 1997, based on the British Standards Code of Practice for Bridge Design (BS5400:1990).
- (iii) **Pavement:** (a) Transport Research Laboratory's Road Note 31, 4th Edition (TRL-RN31), the basis of RDA's pavement design process, (for RPPF RN31 has been used for the design of new pavements and for widening); (b) AASHTO Pavement Design Guide, (for RPPF AASHTO has been used for determining overlay requirements utilizing structural numbers); and (c) design life for new pavements: 10-year life with provision for overlays during or at the end of that period to extend the life to 15–20 years.
- (iv) **Drainage:** RDA's standards incorporating relevant standards from AASHTO and the British Standard Design Manual for Roads and Bridges.

14. **Cross section.** Road cross sections will vary depending on projected traffic volume, geometric condition, and terrain. In general, the cross section consists of a carriageway width 2.5–5.0 meters (m), shoulder 0.50–1.5 m each side, with drainage and berm as required. Sidewalks for bridges (typically 1.2 m wide) are considered on a case-by-case basis, depending on bridge length, location, and pedestrian and traffic volume. Use of the existing road corridor (existing road cross section and provision for utilities) is maximized to achieve the optimal combination of economy and desired road improvement without land acquisition.

15. **Alignment and traffic facilities.** In general, the proposed improvements follow the existing horizontal and vertical alignment. The only minor changes are applied to the horizontal alignment for very short sections to enhance road safety, to ease the radius of curves, or to minimize blind spots. The designs are based on physical measurement of road cross sections at

observed changes in the road cross section and/or changes in road right of way width; identification and measurement of minor cut or fill areas (length and depth); checking and measurement of drainage structures and assessment of improvements; identification of drainage outlets; identification of locations for new structures; assessment of requirements for scour protection and erosion control; inspection of bridges; and assessment of improvement requirements. During implementation, topographic surveys are done at sites where bridges are to be widened, replaced, or where a new structure is required; full pavement design based on traffic volumes; axle loading; dynamic cone penetration (DCP) testing; test pit identification of existing pavement structure; in-situ soils and environmental effects.

16. **Road safety.** The road safety aspects are related mostly to localized sections of the alignments. Based on the road safety inspections, carried out on all roads during the field evaluation, the detailed design, wherever possible, incorporates improvements to road width and alignment; removal of “black spots”; improvement of visibility at intersections; review of sight distances (both vertical and horizontal); warning signs for areas subject to flooding in high rainfall periods; and installation of precautionary speed signs to slow traffic down when approaching curves or low speed zones. A full road safety audit has been carried out on the proposed project roads, addressing each road section by section, and recommendations for road furniture and marking have been incorporated in the design.

17. **Drainage.** To minimize local flooding or ponding, earth, masonry, and concrete side drains are reconstructed to direct surface flows away from road pavements and linked to streams or watercourses. Watercourses will be improved to ensure adequate disbursement. For existing drainage structures (retained or repaired), the waterways are restored by removing settled materials and debris. For new structures, outfalls will be checked to ensure adequate flow is attainable.

18. **Earth-retaining structures.** When the road is in an embankment and any widening of the road involves land acquisition, retaining walls are introduced to get required additional road widths. Gabions, random rubble masonry, and reinforced concrete retaining walls are used. Materials and construction methods are in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges 1989 (Sri Lanka), modified to suit project requirements.

19. **Road pavement.** Road pavements are constructed in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges 1989 (Sri Lanka). Road pavement consists of granular soil sub base, aggregate base course, and asphalt concrete wearing course.

20. **Culverts/bridges.** Improvements comprise repairing and/or replacing existing cross drainage structures, including structural renovation of substructure and superstructure elements together with installation or repair of guardrails and improvement of causeways and vented drifts. Materials and construction methods are in accordance with Technical Specifications, Part 1 Standard Specification for Construction and Maintenance of Roads and Bridges June 2007 (Sri Lanka), modified to suit project requirements.

III. OUTPUT- AND PERFORMANCE-BASED ROAD CONTRACT

21. The national roads under the project are improved and maintained as per the output- and performance-based road contract (OPRC). This form of contract mainly focuses on management and maintenance services, including physical works on national roads under the contract which

are needed to maintain at the agreed service levels for a period of 7 years. These OPRC contracts under the project also allow for the execution of (i) rehabilitation works to be carried out to bring national roads under the contract up to predefined standards; (ii) improvement works aiming at adding new characteristics to national roads in response to new traffic, safety, or other considerations; and (iii) emergency works comprising activities needed to reinstate national roads after damage resulting from unforeseen natural phenomena with imponderable consequences. The design criteria, listed in para. 5 above, are adopted for all improvements and rehabilitation of national roads.

22. Maintaining a road network under the OPRC includes both routine and periodic tasks. Routine maintenance consists of many different tasks frequently necessary to maintain the function of the road. Periodic maintenance consists of predictable and more costly measures of a less frequent nature designed to avoid road degradation.

23. Minimum road conditions and service levels are defined, based on RDA standards through output and performance measures, and these are used under the OPRC to define and measure the desired performance of the contractor.

PRO FORMA OF THE EXECUTING AGENCY'S PROJECT PROGRESS REPORT

A. Introduction and Basic Data

1. Provide the following:

- Asian Development Bank (ADB) loan number, project title, borrower, executing agency/s, implementing agency/s;
- total estimated project cost and financing plan;
- status of project financing including availability of counterpart funds and cofinancing;
- dates of approval, signing, and effectiveness of ADB loan;
- original and revised (if applicable) ADB loan closing date and elapsed loan period based on original and revised (if applicable) loan closing dates; and
- date of last ADB review mission.

B. Utilization of Funds (ADB Loan, Cofinancing, and Counterpart Funds)

2. Provide the following:

- cumulative contract awards financed by the ADB loan, cofinancing, and counterpart funds (commitment of funds to date), and comparison with time-bound projections (targets);
- cumulative disbursements from the ADB loan, cofinancing, and counterpart funds (expenditure to date), and comparison with time-bound projections (targets); and
- reestimated costs to completion, need for reallocation within ADB loan categories, and whether an overall project cost overrun is likely.

C. Project Purpose

3. Provide the following:

- status of project scope/implementation arrangements compared with those in the report and recommendation of the President (RRP), and whether major changes have occurred or will need to be made;
- an assessment of the likelihood that the immediate development objectives (project purpose) will be met in part or in full, and whether remedial measures are required based on the current project scope and implementation arrangements;
- an assessment of changes to the key assumptions and risks that affect attainment of the development objectives; and
- other project developments, including monitoring and reporting on environmental and social requirements that might adversely affect the project's viability or accomplishment of immediate objectives.

D. Implementation Progress

4. Provide the following:

- assessment of project implementation arrangements such as establishment, staffing, and funding of the project management office (PMO) or project implementation unit

- (PIU);
- information relating to other aspects of the executing agency's (EA) internal operations that may impact on the implementation arrangements or project progress;
- progress or achievements in implementation since the last progress report;
- assessment of the progress of each project component, such as
 - recruitment of consultants and their performance;
 - procurement of goods and works (from preparation of detailed designs and bidding documents to contract awards); and
 - the performance of suppliers, manufacturers, and contractors for goods and works contracts;
- assessment of progress in implementing the overall project to date in comparison with the original implementation schedule—quantifiable and monitorable target (include simple charts such as bar or milestone to illustrate progress, a chart showing actual versus planned expenditure, S-curve graph showing the relationship between physical and financial performance, and actual progress in comparison with the original schedules and budgets, the reference framework or guidelines in calculating the project progress including examples, which are shown in Appendix 2); and
- an assessment of the validity of key assumptions and risks in achieving the quantifiable implementation targets.

E. Compliance with Covenants

5. Provide the following:

- the borrower's compliance with policy loan covenants such as sector reform initiatives and EA reforms, and the reasons for any noncompliance or delay in compliance;
- the borrower's and the EA's compliance with financial loan covenants including the EA's financial management, and the provision of audited project accounts or audited agency financial statements; and
- the borrower's and the EA's compliance with project-specific loan covenants associated with implementation, environment, and social dimensions.

F. Major Project Issues and Problems

6. Summarize the major problems and issues affecting or likely to affect implementation progress, compliance with covenants, and achievement of immediate development objectives. Recommend actions to overcome these problems and issues (e.g., changes in scope, changes in implementation arrangements, and reallocation of loan proceeds).

SOCIAL SAFEGUARD INDICATIVE MONITORING INDICATORS

Delivery of Entitlements

- Entitlements disbursed, compared with number and category of losses set out in the entitlement matrix
- Disbursements against timelines
- Identification of the displaced persons losing land temporarily, e.g., through soil disposal, borrow pits, contractors' camps, been included
- Timely disbursements of the agreed transport costs, relocation costs, income substitution support, and any resettlement allowances, according to schedule
- Provision of replacement land plots
- Quality of new plots and issue of land titles
- Restoration of social infrastructure and services
- Progress on income and livelihood restoration activities being implemented as set out in the income restoration plan; for example, utilizing replacement land, commencement of production, the number of the displaced persons trained in employment with jobs, microcredit disbursed, number of income-generating activities assisted
- Affected businesses receiving entitlements, including transfer and payments for net losses resulting from lost business

Consultation and Grievances

- Consultations organized as scheduled, including meetings, groups, and community activities
- Knowledge of entitlements by the displaced persons
- Use of the grievance redress mechanism by the displaced persons
- Information on the resolution of the grievances
- Information on the implementation of the social preparation phase
- Implementation of special measures for indigenous peoples

Communications and Participation

- Number of general meetings (for both men and women)
- Percentage of women out of total participants
- Number of meetings exclusively with women
- Number of meetings exclusively with vulnerable groups
- Number of meetings at new sites
- Number of meetings between hosts and the displaced persons
- Level of participation in meetings (of women, men, and vulnerable groups)
- Level of information communicated—adequate or inadequate
- Information disclosure
- Translation of information disclosure in the local languages

Budget and Time Frame

- Land acquisition and resettlement staff appointed and mobilized on schedule for the field and office work
- Capacity building and training activities completed on schedule
- Achieving resettlement implementation activities against the agreed implementation plan
- Funds allocation for resettlement to resettlement agencies on time
- Receipt of scheduled funds by resettlement offices
- Funds disbursement according to the resettlement plan

- Social preparation phase as per schedule
- Land acquisition and occupation in time for implementation

Livelihood and Income Restoration

- Number of displaced persons under the rehabilitation programs (women, men, and vulnerable groups)
- Number of displaced persons who received vocational training (women, men, and vulnerable groups)
- Types of training and number of participants in each
- Number and percentage of displaced persons covered under livelihood programs (women, men, and vulnerable groups)
- Number of displaced persons who have restored their income and livelihood patterns (women, men, and vulnerable groups)
- Number of new employment activities
- Extent of participation in rehabilitation programs
- Extent of participation in vocational training programs
- Degree of satisfaction with support received for livelihood programs
- Percentage of successful enterprises breaking even (women, men, and vulnerable groups)
- Percentage of displaced persons who improved their income (women, men, and vulnerable groups)
- Percentage of displaced persons who improved their standard of living (women, men, and vulnerable groups)
- Number of displaced persons with replacement agriculture land (women, men, and vulnerable groups)
- Quantity of land owned/contracted by displaced persons (women, men and vulnerable groups)
- Number of households with agricultural equipment
- Number of households with livestock

Benefit Monitoring

- Noticeable changes in patterns of occupation, production, and resource use compared to the pre-project situation
- Noticeable changes in income and expenditure patterns compared to the pre-project situation
- Changes in cost of living compared to the pre-project situation
- Changes in key social and cultural parameters relating to living standards
- Changes that have occurred for vulnerable groups
- Benefiting from the project by the displaced persons

OUTLINE OF RESETTLEMENT PLAN/INDIGENOUS PEOPLES PLAN MONITORING REPORT

1. Following the requirements of the ADB Safeguard Policy Statement (2009) and the Operations Manual section on safeguard policy (OM F1), borrowers/clients are required to establish and maintain procedures to monitor the status of implementation of safeguard plans and ensure progress is made toward the desired outcomes. For projects categorized as A or B in involuntary resettlement (IR) and/or indigenous people (IP), the borrowers/clients are required to submit semi-annual monitoring reports for ADB review. The level of detail and comprehensiveness of a monitoring report is commensurate with the complexity and significance of social safeguards impacts (IR and IP) and with the current status of the project implementation phase.
2. This outline can be used for
 - periodic monitoring report (semi-annual), and/or
 - resettlement plan/indigenous peoples plan (RP/IPP) completion report to start the civil works on the impacted areas.
3. A safeguard monitoring report may include the elements listed below.

I. Executive Summary

4. This section provides a concise statement of project scope and impacts, key findings, and recommended actions (as applicable).

II. Background of the Monitoring Report

5. This section provides
 - background/context of the monitoring report, which includes information on the project, project components, safeguards categorizations, and general scope of the social safeguards impacts;
 - information on the implementation progress of the project activities, scope of monitoring report and requirements, methodology used, reporting period;
 - changes in project scope, if any.

III. Scope of Impacts

6. This section outlines the details of
 - scale and scope of the project impacts on involuntary resettlements or indigenous people as identified in the approved RP/IPP;
 - adjusted safeguard measures due to changes in project scope, if applicable;
 - vulnerability status of the affected people;
 - entitlements matrix and other rehabilitation measures, as applicable, as described in the approved final RP(s)/IPP(s).

IV. Status of RP/IPP Implementation

7. This section provides details and progress of the implementation of the RP/IPP. These include various activities and institutional arrangements required prior to the finalization and implementation of the RP/IPP. This section should have descriptions of the following features.

A. Institutional Arrangement and Capacity

8. This section describes the actual implementation or any adjustment made to the institutional arrangement for implementing and managing the social safeguards issues. This includes the establishment of the safeguards unit/team and appointment of staff in the executing agency/implementing agency (EA/IA); implementation of the grievance redress mechanism (GRM) and its committee; supervision and coordination between institutions involved in the management and monitoring of safeguards issues, the roles of nongovernment organizations (NGO) and women's groups in the monitoring and implementation of the plan, if any; budget/fund availability for implementing the GRM and RP/IPP; adequacy of EA/IA capacity to manage safeguards issues; updated RP/IPP implementation schedule; etc.

B. Compensation and Rehabilitation¹

9. This section describes the process and progress of the implementation of the land acquisition and resettlement (LAR) and/or the impacts of mitigation activities on indigenous peoples as determined in the RP/IPP. This includes payment of the affected assets compensation, allowances, loss of incomes, etc. to the entitled persons; provisions of other types of entitlement as described in the matrix, and implementation of livelihood rehabilitation activities as determined in the plan. Quantitative as well as qualitative results of the monitoring parameters should be provided (e.g., adequacy of compensation rates and timeliness of payments, adequacy and timeliness of IR rehabilitation measures, including preparation of the replacement housing sites, house reconstruction, livelihood support measures, and training, etc.). Any discrepancies that may occur from the approved RP/IPP during the implementation should be explained.

C. Disclosure and Public Consultation

10. This section describes public disclosure and consultation activities during the project's implementation as agreed in the plan. This includes final consultations with affected peoples (AP) during RP finalization after the completion of the detailed design and the final detailed measurement survey (DMS); the numbers of activities conducted; issues raised during consultations and responses provided by the project team, implementing NGOs, project supervision consultants, contractors; project reports posted on a website, etc.

D. Grievance Redress Mechanism

11. This section describes the implementation of the project's GRM as designed in the approved RP/IPP. The monitoring and evaluation include its readiness, effectiveness, procedures, complaints received, timeliness to resolve issues/complaints, and the adequacy of resources provided to solve the complaints. Special attention should be given if there are complaints received from the affected people or communities.

V. Summary Monitoring Results and Key Findings

12. This section describes the summary and key findings of the monitoring activities. The

¹ If the final detailed design at the submission date of the report is not yet ready, this activity might not yet be started. In this situation, provide the information on the project's readiness for the resettlement plan/indigenous people (RP/IPP) implementation and management (i.e., land acquisition and resettlement fund availability, resettlement plan finalization, assets inventory and mapping, ID card distribution, etc.), and the updated schedule of the compensation and rehabilitation activities, as applicable.

results are compared against previously established benchmarks and compliance status or resolution/follow-up of previously identified issues. It is also compared against the objectives of safeguards or desired outcomes (e.g., IR impacts avoided or minimized; livelihood restored or enhanced; IP's identity, human rights, livelihood systems and cultural uniqueness fully respected; IPs do not suffer adverse impacts, other social impacts avoided or minimized, etc.). For Financial Intermediation projects, this includes the effectiveness of the environmental and social management system (ESMS) managed by the Financial Intermediation and its participating institutions.²

VI. Compliance Status

13. This section summarizes the compliance status of the project activities with the loan covenants, ADB Safeguard Policy Statement (2009) on Safeguard Requirements 2 and 3 (as applicable).

VII. Follow-up Actions, Recommendations, and Disclosure

14. This section describes the recommendations and further actions or items to focus on for the remaining monitoring period. If noncompliance or any major gaps are identified, include the recommendation of the corrective action plan. It also includes lessons learned for improvement of future safeguard monitoring activities. Disclosure dates of the monitoring report to the affected communities should also be included and, as needed, a time-bound summary table for required actions.

Appendix 1

- i. Summary of final/draft RP/IPP with entitlement matrix

Appendix 2

- i. List of affected persons and entitlements
- ii. Summary of the survey results (from the external monitor)
- iii. Copies of the affected persons' (AP) certification of payment (signed by the APs)
- iv. Summary of minutes of meetings during public consultations
- v. Summary of complaints received and solution status
- vi. Photographs of the affected areas, consultation meetings, housing reconstruction activities, etc.

² Specific for the FI projects, the external agency may be required to conduct an audit of the project's environment and social management system (ESMS).

GENDER ACTION PLAN PROGRESS UPDATE FORMAT

Integrated Road Investment Program (Tranche 4)

Date Prepared:

Project Title:

Country:

Project No.:

Loan No.:

Type of Project (Loan/TA/JFPR):

Approval and Timeline/Duration of the Project:

Gender Category:

Mission Leader:

Name of Gender Specialist/Gender Focal Point:

Reporting Period:

Project Impact:

Project Outcome:

Activities, Indicators, Baseline, Targets, Timeframe and Responsibility	Progress to Date		Issues and Challenges (Please include reasons why an activity was not fully implemented, or why targets fall short, or reasons for delay, etc.)												
	Progress for the Reporting Period (MM/YYYY to MM/YYYY) (This should include information on progress for the current quarter—qualitative and quantitative updates [sex-disaggregated data])	Cumulative Progress (MM/YYYY to MM/YYYY) (This should include information on progress [qualitative and quantitative updates including sex- disaggregated data] from the start of the project to the previous quarter's progress report.)													
Output 1: Improved rural roads and national roads network															
Activity 1: For 3,130 km of rural roads to be improved, conduct community consultations and integrate findings into the final design, addressing issues of (i) road safety and elderly–women–children–disabled (EWCD) features, (ii) construction impact and mitigation measures, and (iii) social and environmental impact and mitigation measures.															
Indicator and Targets: 1.1.a At least 40% female representation in consultations related to the final design.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">No. of consultation sessions</td> <td style="width: 20%;"></td> </tr> <tr> <td>No. of women in consultations</td> <td></td> </tr> <tr> <td>No. of men in consultations</td> <td></td> </tr> </table>	No. of consultation sessions		No. of women in consultations		No. of men in consultations		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%;">No. of consultation sessions</td> <td style="width: 20%;"></td> </tr> <tr> <td>No. of women in consultations</td> <td></td> </tr> <tr> <td>No. of men in consultations</td> <td></td> </tr> </table>	No. of consultation sessions		No. of women in consultations		No. of men in consultations		
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1.1.b Consultation findings are integrated into the final design.																			
1.1.c Road safety and EWCD features include pedestrian crossings and location of signage.																			
Activity 1.2: For 385 km of national roads to be improved, integrate safety and EWCD-friendly features into the final design.																			
1.2.a EWCD and safety design features integrated into the final design.																			
1.2.b Designs include paved shoulders, pedestrian crossings, and location of signage.																			
Activity 1.3: Employ local women for road maintenance and ensure equal wages for equal work done by both male and female skilled and unskilled labor in project works.																			
1.3.a At least 30% of local road maintenance workers employed are women. For rural roads, a 3-year maintenance period with an estimated 222,000 person-days of work for women.	<table border="1"> <tr> <td>No. of local road maintenance workers who are women</td><td></td></tr> <tr> <td>No. of local road maintenance workers who are men</td><td></td></tr> <tr> <td>% of female road maintenance workers</td><td></td></tr> <tr> <td>No. of person-days of maintenance work allocated for women</td><td></td></tr> </table>	No. of local road maintenance workers who are women		No. of local road maintenance workers who are men		% of female road maintenance workers		No. of person-days of maintenance work allocated for women		<table border="1"> <tr> <td>No. of local road maintenance workers who are women</td><td></td></tr> <tr> <td>No. of local road maintenance workers who are men</td><td></td></tr> <tr> <td>% of female road maintenance workers</td><td></td></tr> <tr> <td>No. of person-days of maintenance work allocated for women</td><td></td></tr> </table>	No. of local road maintenance workers who are women		No. of local road maintenance workers who are men		% of female road maintenance workers		No. of person-days of maintenance work allocated for women		
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1.3.b For national roads, a 7-year maintenance period with an estimated 44,000 person-days of work for women.	<table border="1"> <tr><td>No. of national road maintenance workers who are women</td><td></td></tr> <tr><td>No. of national road maintenance workers who are men</td><td></td></tr> <tr><td>% of female road maintenance workers</td><td></td></tr> <tr><td>No. of person-days of maintenance work allocated for women</td><td></td></tr> </table>	No. of national road maintenance workers who are women		No. of national road maintenance workers who are men		% of female road maintenance workers		No. of person-days of maintenance work allocated for women		<table border="1"> <tr><td>No. of national road maintenance workers who are women</td><td></td></tr> <tr><td>No. of national road maintenance workers who are men</td><td></td></tr> <tr><td>% of female road maintenance workers</td><td></td></tr> <tr><td>No. of person-days of maintenance work allocated for women</td><td></td></tr> </table>	No. of national road maintenance workers who are women		No. of national road maintenance workers who are men		% of female road maintenance workers		No. of person-days of maintenance work allocated for women																																																																																											
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1.4.a 100% women employed for maintenance are trained.	<table border="1"> <tr><td>No. of women employed for maintenance work</td><td></td></tr> <tr><td>No. of employed-women provided with trainings</td><td></td></tr> </table>	No. of women employed for maintenance work		No. of employed-women provided with trainings		<table border="1"> <tr><td>No. of women employed for maintenance work</td><td></td></tr> <tr><td>No. of employed women provided with trainings</td><td></td></tr> </table>	No. of women employed for maintenance work		No. of employed women provided with trainings																																																																																																			
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Activity 1.5: Ensure women's participation in road safety awareness campaigns targeting local communities.																																																																																																												
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Activity 1.6: Provide awareness training on sexually transmitted diseases, STI, including HIV, and human trafficking for civil works employees and local communities.																																																																																																												
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2.3.a At least 20 RDA staffs at the national level and 20 staffs of provincial road agency trained in mainstreaming gender in road construction and maintenance.	<table border="1"> <tr> <td></td> <td>F</td> <td>M</td> <td>T</td> </tr> <tr> <td>No. of trainings conducted</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of RDA (national) staff who participated</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of provincial RDA staff who participated</td> <td></td> <td></td> <td></td> </tr> </table>		F	M	T	No. of trainings conducted				No. of RDA (national) staff who participated				No. of provincial RDA staff who participated				<table border="1"> <tr> <td></td> <td>F</td> <td>M</td> <td>T</td> </tr> <tr> <td>No. of trainings conducted</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of RDA (national) staff who participated</td> <td></td> <td></td> <td></td> </tr> <tr> <td>No. of provincial RDA staff who participated</td> <td></td> <td></td> <td></td> </tr> </table>		F	M	T	No. of trainings conducted				No. of RDA (national) staff who participated				No. of provincial RDA staff who participated				
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Activity 2.4: Conduct impact assessment for sample roads with sex-disaggregated indicators.																																			
2.4.a Socioeconomic impact assessment conducted for sample roads with a focus on time-use study of women road users.																																			
Output 3: Project preparation of the following tranches																																			
Activity 3.1: Collect sex-disaggregated data and conduct a gender analysis during preparatory surveys, feasibility studies, assessments, and reports.																																			
3.1.a Poverty and social assessment study include gender assessment with sex-disaggregated data for relevant indicators.																																			
Activity 3.2: Integrate gender-inclusive features into final design and formulate gender-mainstreaming activities.																																			
3.2.a. At least 50% of outputs for subsequent tranches include gender-related targets.																																			

Comments/ Remarks:**Prepared by:** _____**Approved by:** _____**Date:** _____

USEFUL LINKS TO ADB REFERENCES

Loan Disbursement Handbook	http://www.adb.org/documents/loan-disbursement-handbook
Procurement Guidelines	https://www.adb.org/sites/default/files/institutional-document/31482/procurement-guidelines-april-2015.pdf
Guidelines on the Use of Consultants	https://www.adb.org/sites/default/files/institutional-document/31481/guidelines-use-consultants.pdf
Safeguard Policy Statement	https://www.adb.org/sites/default/files/institutional-document/32056/safeguard-policy-statement-june2009.pdf
ADB Public Communications Policy	http://www.adb.org/documents/pcp-2011
e-Handbook on Project Implementation	http://www.adb.org/documents/handbooks/project-implementation/
Checklist for statement of expenditure (SOE) procedures and formats	https://www.adb.org/documents/loan-disbursement-handbook
Financial management toolkit	https://www.adb.org/about/financial-management-resources
ADB's Anticorruption and Integrity Policy	https://www.adb.org/sites/default/files/institutional-document/32131/integrity-principles-guidelines.pdf
Accountability Mechanism	http://compliance.adb.org/