

Environmental Monitoring Report

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Annual Report

December 2020

SRI: Integrated Road Investment Program

– Tranches 1, 2, 3 & 4

MC – Southern and North Central Provinces

Prepared by the Road Development Authority, Ministry of Highways for the Asian Development Bank.

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**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HIGHWAYS
ROAD DEVELOPMENT AUTHORITY**

Annual Environmental Safeguard Monitoring Report

January to December 2020

**Loan 3171 – SRI: Integrated Road Investment Program
Tranche 1 – MC/001 Monitoring Consultancy for Road
Management Contracts [RMC] for National Roads**

Submitted Date: 16.01.2021

**Prepared by: Oriental Consultants Global Co. Ltd in Joint Venture with Consulting
Engineers and Architects Associated (Pvt.) Ltd**

List of abbreviations

ADB	Asian Development Bank
AF	Affected Families
AIDS	Acquired Immunodeficiency Syndrome
ARE	Assistant Resident Engineer
BIQ	Basic Information Questionnaire
BOQ	Bills of Quantities
CE	Constriction Engineer
CEA	Central Environmental Authority
CRC	Conventional Road Contracts
CSD	Context Sensitive Design
DE	Design Engineer
DPM	Deputy Project Manager
DS	Divisional Secretary
DSD	Divisional Secretariat Division
DWLC	Department of Wildlife Conservation
EA	Executing Agency
EARF	Environmental Assessment and Review Framework
ECOP	Environmental Code of Practice
EIA	Environmental Impact Assessment
EMAP	Environmental Management Action Plan
EMC	Environmental Monitoring Checklist
EMP	Environmental Management Plan
EO	Environmental Officer
EPL	Environmental Protection License
ES	Environmental Specialist
ESA	Environmental Safeguard Assistant
ESDD	Environmental and Social Development Division
FAM	Project Facility Administration Manual
FFPO	Fauna & Flora Protection Ordinance
FGD	Focus Group Discussion
FS	Feasibility Study
GAP	Gender Action Plan
GIS	Geographical Information System
GN	Grama Niladhari
GND	Grama Niladhari Division

GOSL	Government of Sri Lanka
GRC	Grievance Redress Committee
GRM	Grievance Redress Mechanism
HIV	Human Immunodeficiency Virus
IA	Implementation Agency
IEE	Initial Environmental Examination
IML	Industrial Mining License
IPPS	Indigenous Peoples Planning Framework
IPP	Indigenous Peoples Plan
IR	Involuntary Resettlement
iRoad	Integrated Road Investment Program
LA	Local Authority
LARP	Land Acquisition and Resettlement Plan
MC	Monitoring Consultant
ME	Material Engineer
ME & RE	Ministry of Environment & Renewable Energy
MFF	Multi Tranche Financing Facility
MOH	Ministry of Highways
MOHPS	Survey and Preliminary Engineering
MOU	Memorandum of Understanding
NEA	National Environment Act
OPRC	Output and Performance Base Contracts
PAA	Project Approving Agency
PD	Project Director
PE	Project Engineer
PHI	Public Health Officer
PIU	Project Implementing Unit
PLE	Planning Engineer
PM	Project Manager
PPT	Power Point Presentation
PPTA	Project Preparatory Technical Assistance
PRDA	Provincial Road Development Authority
PS	Pradeshiya Sabha
RDA	Road Development Authority
RE	Residential Engineer
RF	Resettlement Framework
RM	Road Manager
RMC	Road Management Contract

ROW	Right of Way
RRDSE	Rural Road Design & Safety Engineer
RSA	Road Safety Audits
SAPE	Survey and Preliminary Engineering Consultants
SE	Site Engineer
SGRS	Social Gender Resettlement Specialist
SLRM	Sri Lanka Resident Mission
SO	Safety Officer
SPS	Safeguards Policy Statement
SSA	Social Safeguards Assistant
SSEMAP	Site Specific Environmental Management Action Plans
SSO	Social Safeguard Officer
TL	Team Leader
TO	Technical Officer
TOR	Terms of Reference

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1 Introduction

1.1 Background of the Project

Integrated Road Investment Program (iRoad Program) funded by the Asian Development Bank (ADB) is a project implemented by the Government of Sri Lanka to improve connectivity between rural communities and socioeconomic centers by increasing the transport efficiency of several selected national, provincial and local roads. The Road Development Authority (RDA) as the organization responsible for the management of the national road network has invested a large amount of funds for rehabilitation and improvement of roads. The funds are usually borrowed from international funding agencies and the work is carried out by international and local contractors to high standards. Arrangements for the continuous maintenance of the road network need more attention.

RDA assisted by funding agencies such as the World Bank and the Asian Development Bank (ADB) had explored the possibility of adopting improved modes of contracting for road construction and maintenance, especially the Road Management Contracts (RMCs), which includes an extended period for maintenance activities.

The RMC contracts were introduced to Sri Lanka in order to increase the efficiency and effectiveness of the management and maintenance of the National road network. The Democratic Socialist Republic of Sri Lanka has received a Multi-tranche Financing Facility (MFF) for the Integrated Road Investment Program (iRoad) from the Asian Development Bank. The MFF comprises a series of loans to improve the access routes between rural areas and socioeconomic centers. Part of the funds is used for rehabilitating and maintaining about 400 km of national roads through Road Management Contracts (RMCs).

1.2 Project Details

Loan No.	Loan 3171- SRI: Tranche 01-MC/001
Project Title	Integrated Road Investment Program - Road Management Contracts (RMC) for National Roads.
Executing Agency	Ministry of Highways
Implementing Agency	Road Development Authority.
Monitoring Consultant	Oriental Consultants Global Co. Ltd in Joint Venture with Consulting Engineers and Architects Associated (Pvt.) Ltd.
ADB loan amount	USD 800 Million
Date of Loan Approval	3 rd October 2014
Date of Loan Agreement	5 th November 2014
Date of Loan effectiveness	7 th January 2015
Date of loan completion	September, 2024
Duration of Monitoring Consultants (MC)	84 months

Monitoring Consultants for the Road Management Contracts were selected from joint ventures of International and local Consultancy firms through a procurement process in accordance with ADB Guidelines and this particular Consultancy Contract was awarded to Oriental Consultants Global Co. Ltd (Japan) in Joint Venture with Consulting Engineers and Architects Associated (Pvt.) Ltd. (Sri Lanka)

1.3 Road Management Contracts

RMC package of iRoad program includes two segments as; (1) rehabilitation and improvement, and (11) routine and periodic maintenance. Under the rehabilitation and improvement segment it is expected that the selected road will be resurfaced with proper and adequate road side drainage facilities and other road furniture. The road pavement and other road furniture of these improved roads under RMC package will be subjected to routine and periodic maintenance under the second segment.

Currently there are Five (05) Road Management Contract (RMC) packages in Southern, Central, Sabaragamuwa and North Central provinces comprising approximately 260km of National roads have been identified with few more roads are to be added late on.

The contracts are based on the sample bidding document developed by the World Bank for Output and Performance-based Road Contracts. Within each package, a significant proportion of roads will require rehabilitation in the first 1-2 years, with the remainder possibly requiring periodic maintenance throughout the contract period. Routine maintenance of the entire length throughout the contract period, which extends in to further 3 to 4 years, is part of the project.

Originally, a duration of 84 months (7 years) was considered for all of the contract packages. This will be adjusted for individual contract package considering the time required for design and preliminary survey works followed by the tendering process, and the time available until the lapse of the loan facility (currently September 2024).

Details of the current contract packages are shown in the table 1.3.1

Table 1.3.1 RMC Package Details

Contract Package	Name of the Road	Length (km)	Duration (Months)
RMC- 03	Maradankadawala-Habarana Road (A011)	25.0	72
RMC-SP-1	Karapitiya -Wanduramba Road (B248), Wanduramba - Nagoda Road (B454), Nagoda - Gonadeniya (B303), Gonadeniya - Udugama Bar Junction (B139), Udugama Bar Junction-Udugama (B129), Udugama -Hiniduma (B429), Hiniduma -Thawalama (B156)	51.7	66
RMC - 04	Pelmadulla-Embilipitiya - Padalangala Road (A018)	66.0	*TBD
RMC - 05	Thalawa-Kekirawa-Ganewalpola-Galenbindunuweva-Dachchihalmillewa Road (B 213, B 212, B 133)	80.0	*TBD
RMC- 06	Colombo-Kandy Road (A01) (Ambepussa- Kadugannawa Section)	40.0	*TBD
Total length		262.7	

*TBD-To Be Decided

1.4 Objectives of the Project

The broad objective of this project is to improve the connectivity of the road network between socio economics centers, cities, townships of districts in project implementation provinces. So that people living in the province will have a better and convenient national road connectivity which will lead to the nationwide economic and social development.

The Government of Sri Lanka through the Ministry of Highways and the Road Development Authority is seeking to increase the efficiency and effectiveness of the management and maintenance of its road network. This decision is motivated by the recognition that the road network constitutes the single largest asset owned by the Government, and that a less-than-optimal system for the management and maintenance of these assets generally results in huge losses for the country economy. For this purpose, the Government of Sri Lanka intends to introduce this new concept and instruments for the management and maintenance on strategic parts of its road network. This will be achieved by the introduction and operation of Road Management contracts for the Road Asset Management, which is a relatively new concept adopted in order to increase the efficiency and effectiveness of road operations within a life span cycle. This type of contract significantly expands the role of the private sector, from the simple execution of works to the management and conservation of road assets. The Operation also incorporates the principles of Design, Operate, Maintain and Transfer (DOMT) Concept.

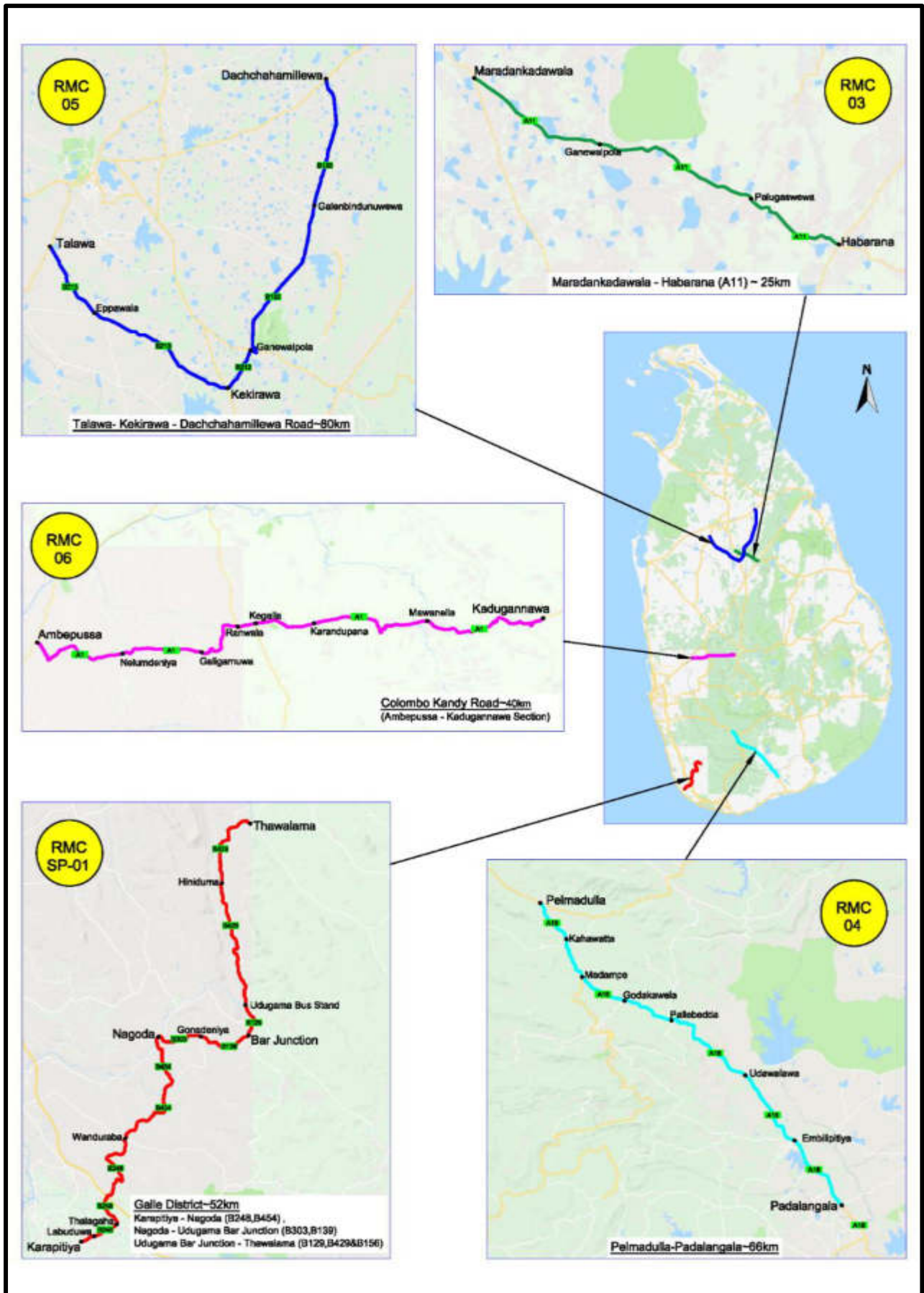
The long-term Road Management Contracts try to address the issue of inadequate incentives and optimize the use of resources providing maximal “value for money”. Payments to the Contractor will be by fixed monthly payments for all routine activities and lump-sum payments for initial rehabilitation/improvement works, while unforeseen emergency works, unspecified future Improvements as well as asphalt concrete overlays, will be remunerated separately.

1.5 Specific Objective of the Project

- Improve, rehabilitate and maintain provincial roads to all weather standards.
- Improve connectivity between production centers and market places to improve linkage with the other district and provinces.
- Facilitate mobility by improving inter and intra provincial road network.
- Open up rural areas for development
- Generate efficiency gains by lowering the unit cost of producers through transport efficiency which will lead to increase their margins and profits thus making them generating another round of investments.
- Reduce rural poverty through improved access to markets and economic centers and new employment opportunities

1.6 Project Locations

The road currently identified under RMC contracts are located in five (05) administrative districts. Those are Anuradhapura District of the North Central Province, Galle District of the Southern Province, Rathnapura and Kegalle districts of the Sabaragamuwa Province and Kandy district of the Central Province. The Project Locations are shown in Map 1.1 below.



Map 1.1 Project location Map

1.7 Description of Road Management Contracts (RMC) Contract Packages

Following two contract packages are currently in operation.

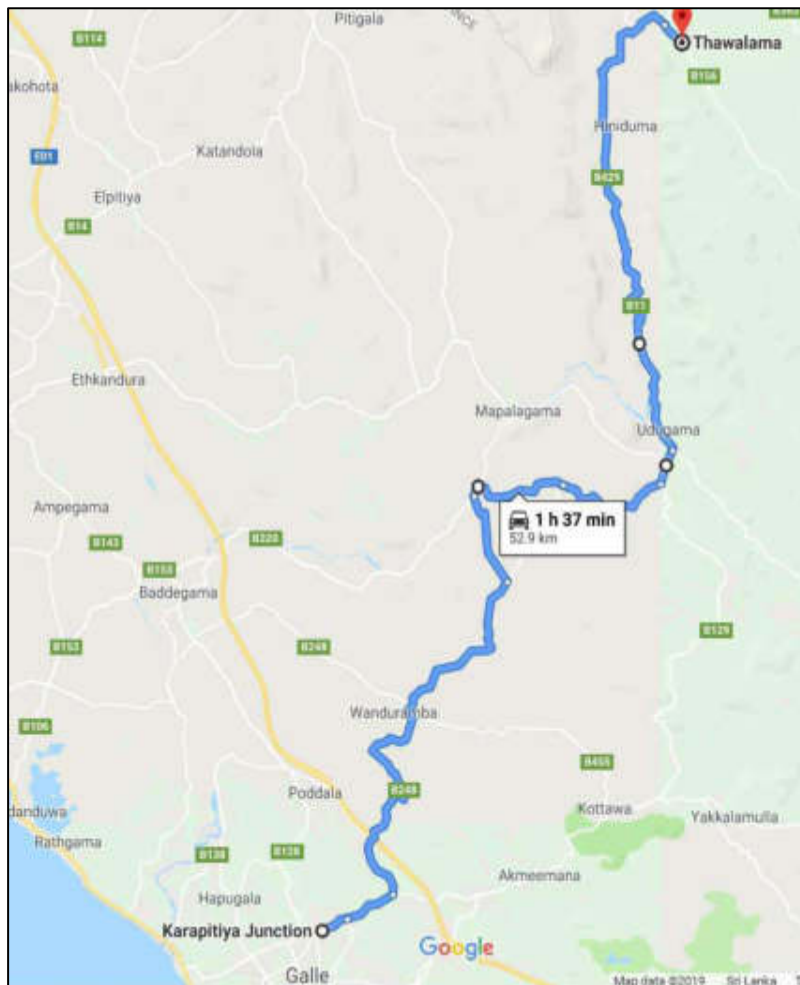
- 1.RMC SP-01
- 2.RMC-03

1.7.1 RMC SP-01

Contract Package Details:

Package No	: RDA/ADB/iROAD/ICB/RMC/SP1
Package Name	: Rehabilitation and Improvement, Periodic Maintenance and Routing Maintenance Works of 51.7 kms of National Roads in Gale District.
Contractor	: K.D.A. Weerasinghe Joint Venture with Yunnan Construction and Investment Holding
Accepted contract Amount	: 6,108,200,364.84 (Excluding VAT)
Commencement Date	: 25 July 2019
Date of completion	: 24 July 2021

Location Map:



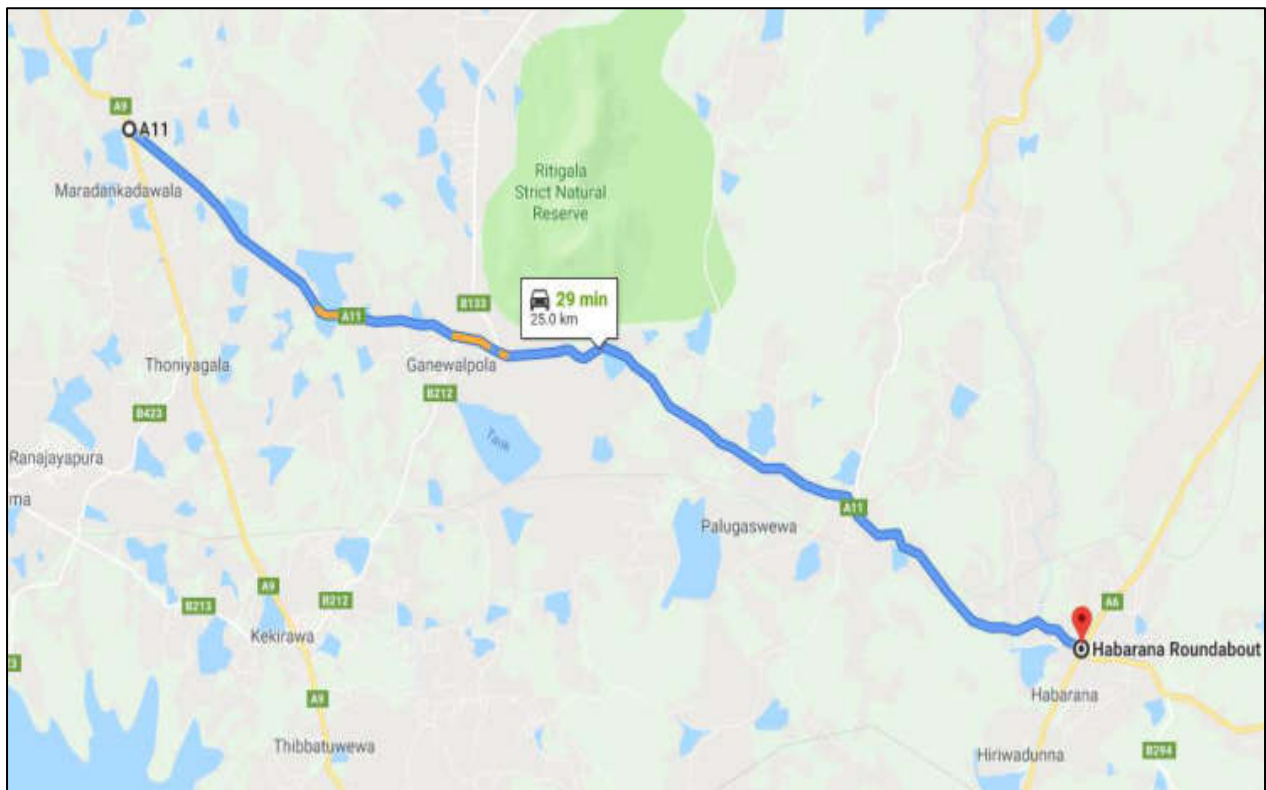
Map 1.2 Project Location Map of RMC SP-01

1.7.2 RMC-03

Contract Package Details:

Package No	: RDA/ADB/iROAD/ICB/RMC/03
Package Name	: Road Management Contract (RMC) for Rehabilitation and Improvement works and Routing Maintenance works of Maradankadawala Habarana, Thrikonamadu Road (A11) from Maradankadawala to Habarana.
Contractor	: Consulting Engineers & Contractors (PVT) LTD
Accepted contract Amount	: 3,155,519,785.00 (without VAT)
Commencement Date	: 16 April 2019
Date of completion	: 15 April 2021

Location Map:



Map 1.3 Project Location Map of RMC-03

1.8 Responsibilities for Environmental Safeguard Implementation

The Project Implementation Unit (PIU) under RDA, is responsible for the overall management of environmental assessments, Implementation and monitoring of environmental safeguards for specific project roads under the investment program. Within RDA there is a separate unit, the Environment and Social Development Division (ESDD) to cover environmental and social safeguards. The Division is responsible for developing manuals and guidelines, providing assistance in the management of safeguard assessments, and implementation and monitoring of environment and social safeguards in accordance with environmental policies of GoSL and donor agencies.

Oriental Consultants Global (OCG) joint venture with Consultants Engineer Architect Associates (Pvt) Ltd has been appointed as the project monitoring consultants. Relevant duties and responsibilities of the consultants are being set out in the terms of reference (TOR) provided in the contract for consultant's services as follows.

- a) Review and approve the SSEMAPs and EMOPs prepared by the contractor.
- b) Daily on-site supervision for implementation of environmental safeguards.
- c) Completion of monitoring checklists during pre-construction, construction and maintenance stages for each road.
- d) Close coordination and communication with the contractor to facilitate implementation of all mitigation measures identified in SSEMAP.
- e) Preparation of monitoring reports and submission to PIU, RDA.
- f) Provide technical supports and advice for addressing complaints and grievances and participate in resolving issues as a member of the GRC.
- g) Provide Technical advice and on the job training to the contractors as necessary.
- h) Preparation of annual monitoring checklists and submission to RDA for further submission to ADB review and approve updated/revised SSEMAPs as necessary.

1.9 Purpose and Structure of the Report

Environmental Assessment and Review Framework (EARF) which has been prepared during the Project Preparatory Technical Assistance (PPTA) set out guide lines and procedures that need to be complied under environmental safeguards of the project. According section vii of EARF on "Monitoring and Reporting" it is required to prepare an annual monitoring report on the environmental safeguard compliance for project.

It overviews environmental safeguard activities conducted by the PIU, MC and contractors during the reporting period (1st January 2020 to 31st December 2020) and describe the environmental safeguard monitoring process executed by the PIU and MC.

1.10 Overview of Institutional Framework

The Executing Agency (EA) of the iRoad Investment Program is Ministry of Highways (MOH), Implementing Agency is the Road Development Authority (RDA) and the Monitoring Consultant (MC) for RMC is OCG-CEA JV. Overall project organization chart is shown in Chart.1.1

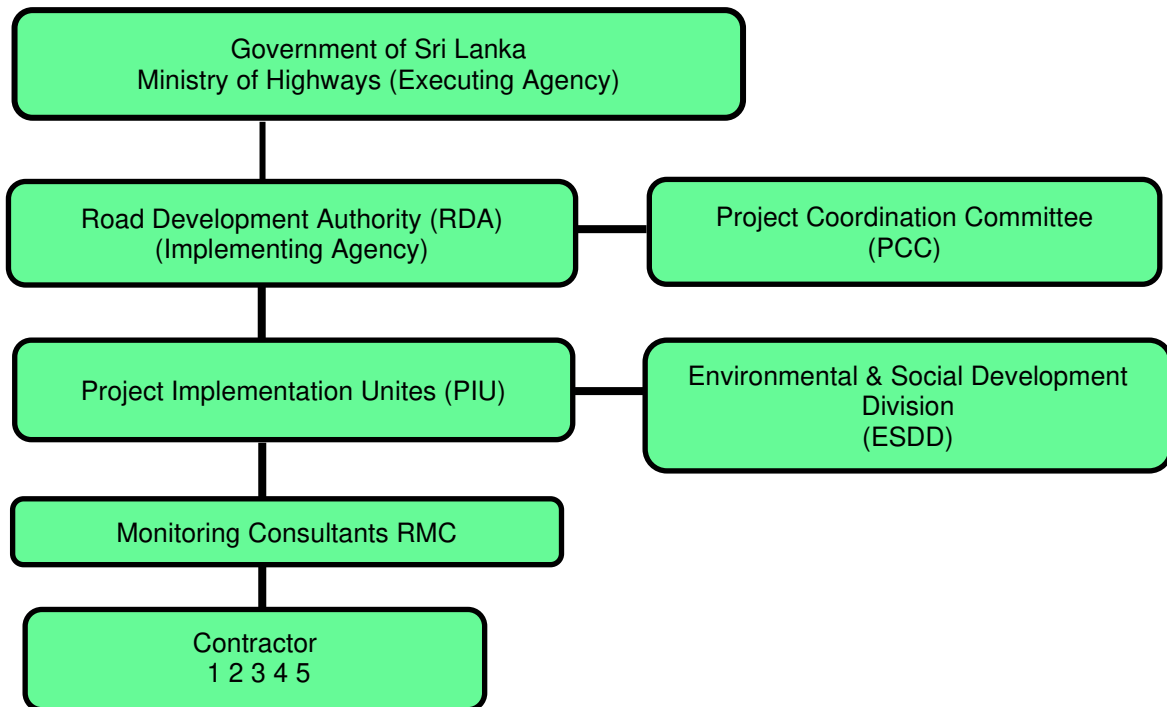


Chart 1.1 Overall Organizational Chart for RMC

MC is headed by Team Leader (TL) assisted by Resident Engineers assigned per one or two contracts and includes Assistant Resident Engineers, Construction Engineers & Technical Officers. A full time Environmental Specialist (ES) and Social, Gender and Resettlement Specialist (SGRS) have been mobilized to assist the TL on environment, Social/ Gender and resettlement aspects.

Duties of Environmental Specialist are;

- a) Assist in reviewing the Environmental checklists and SSEMAPs for all project roads and ensure that they have been prepared in accordance with requirements of the iRoad Environmental Assessment and Review Framework (EARF) for all tranches.
- b) During preparation of subsequent tranches 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.
- c) Check compliance of the IEE and standard EMP prepared by SAPE team with requirements of the EARF.
- d) Reviewing SSEMAP with requirements of the EARF and respective IEE.
- e) Prepare monitoring reports on an annual basis based on monitoring checklists completed for each project road during pre-construction and post construction or operation stage.

Staff of PIU, MC & contractors assists the ES in complying with his duties in the field. (Chart 1.2)

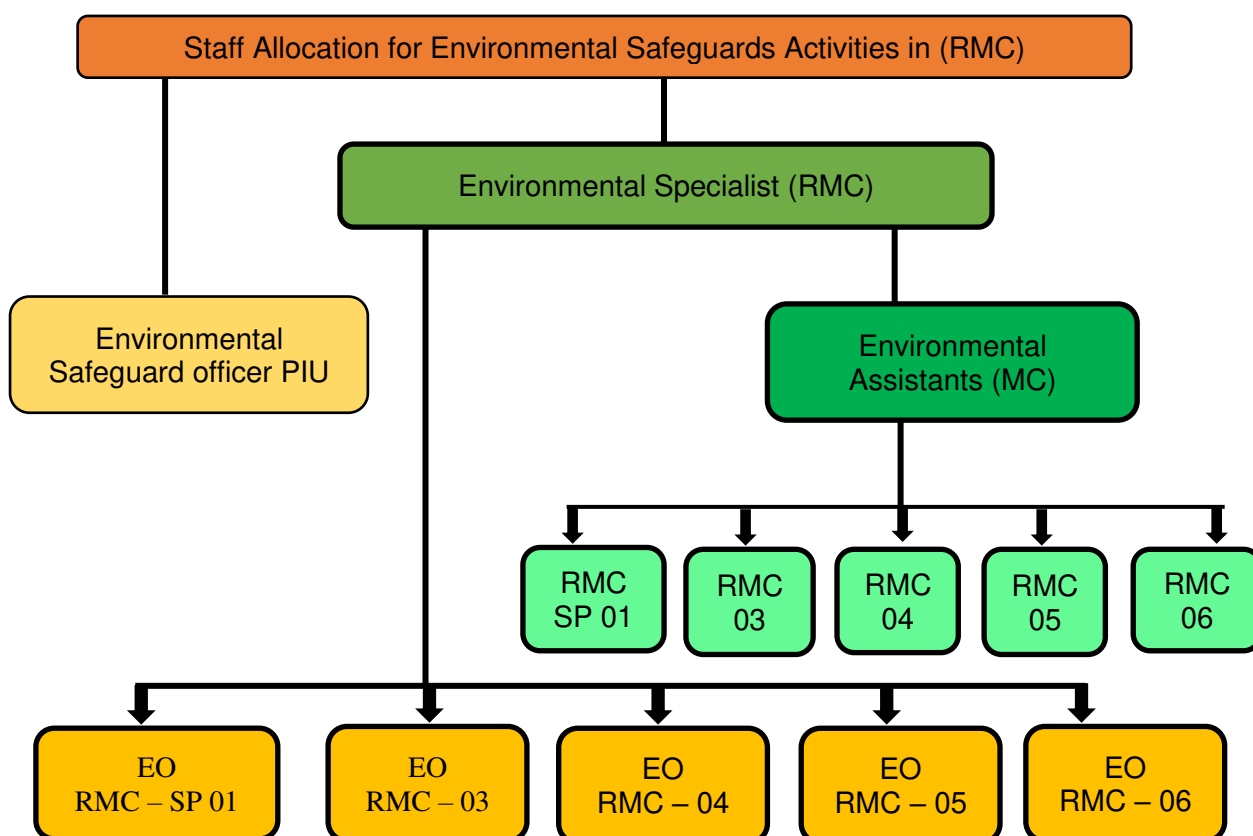


Chart 1.2 The staff who assist the Implement the Environmental Measures

Other than above staff, Context Sensitive Design (CSD) and Safeguards Specialist and Environment and Social Development Division (ESDD) staff also provide their support in training of field staff, field monitoring by exchanging their experiences in integrated road investments programs.

1.11 Policy and Legal Framework

A. Policy Framework

ADB Safeguards Policy Statement, June 2009

ADB's safeguard policy framework consists of three operational policies on the environment, Indigenous People, and involuntary resettlement. All three safeguard policies involve a structured process of impact assessment, planning, and mitigation to address the adverse effects of projects throughout the project cycle. The safeguard policies require that (i) impacts are identified and assessed early in the project cycle; (ii) plans to avoid, minimize, mitigate, or compensate for the potential adverse impacts are developed and implemented; and (iii) affected people are informed and consulted during project preparation and implementation. The policies apply to all ADB-financed projects, including private sector operations, and to all project components.

B. Legal Framework

GoSL Legal framework on Environmental Safeguards

The National Environment Act (NEA) No. 47 is the key environmental policy framework which is administered through the Central Environment Authority (CEA) of the Ministry of Environment and Renewable Energy (ME&RE). NEA No. 47 was enacted in 1980 and NEA amendment Act No. 56 of 1988 stipulated the regulations for assessing and managing environmental impacts and obtaining the environmental clearance in a timely and systematic manner. It also provides guidelines for environment management, management of natural resources, fisheries, wildlife, forestry, soil conservation, environment quality, environment protection and approval of projects. The environmental clearance process is implemented through the designated Project Approving Agency (PAA) as prescribed by the Minister under section 23 Y of the NEA. The procedure that should be followed for obtaining environmental clearance is described under section 23CC and 32 of the NEA.

While the NEA is key environmental legislations under GoSL there are a number of other environmental laws and regulations that are applicable to the investment program as given in Table 1.11.1.

Table 1.11.1 Applicable National Laws and Regulations for the investment Program

Legislation	Relevance and main content	Authorizing Institution
Coast Conservation Act No 57 of 1981	This act regulates any un authorized construction within the coastal zone, by making it mandatory to obtain permits for any Development activity falling within the coastal zone.	Coast Conservation and Coastal Resources Management Department
National environmental protection and quality regulations under Extraordinary gazette notification No. 1534/18 and No. 1533/16 of 2008 under NEA section 32 & 23A, 23B	This regulates the discharge and deposit of any kind of waste or emission into the environment and stipulates requirements for an Environmental Protection License (EPL) depending on the project activity. Examples of activities requiring and EPL are: asphalt processing plant, concrete batching plants, treatment plants, sewerage networks, mechanized mining activities etc.	CEA
National Environmental (Protection and Quality) Regulation No. 1 of 1990 published in Gazette Extraordinary No. 595/16 of February, 1990	Provides standards for discharging effluents into inland surface water during proposed project activities.	CEA
National Environmental (Ambient Air Quality) Regulations 1994, published in Gazette Extraordinary, No. 850/4 of December, 1994 and amendment gazette No. 1562/22 of 2008	Provides standards for emissions to the air during proposed project activities.	CEA

Legislation	Relevance and main content	Authorizing Institution
National Environmental (Noise Control) Regulations No.1 of 1996 and its amendments	Regulates maximum allowable noise levels for construction activities during proposed project activities.	CEA
National Environmental (Vehicle Horns) Regulations, No. 1 of 2011	Regulates maximum allowable noise emanating from vehicular horns on a highway or road any motor vehicle uses during project construction activities.	CEA
National Environmental (Municipal Solid Waste) Regulations, No. 1 of 2009	Regulates dumping municipal solid waste along sides of any national highway or at any place other than places designated for such purpose by the relevant local authority during proposed project activities.	CEA
Fauna and Flora Protection Ordinance No.2 of 1937 amended in 1993 and 2009	The ordinance specifies that any development activity taking place within one mile from the boundary of a National Reserve declared under the Ordinance requires an EIA/IEE which provide for the protection and conservation of fauna and flora of Sri Lanka and their habitats; for the prevention of commercial and other misuse of such fauna and flora and their habitats for conservation of biodiversity of Sri Lanka; and to provide for matters connected there with.	Department of Wildlife Conservation
Forest Act No. 34 of 1951	This act is to consolidate and amend the law relating to the conservation, protection and management of forest and forest resources for the control of felling and transport of timber and Forest and for matters connected therewith or incidental thereto.	Department of Forest
Felling of Trees Control Act No. 9 of 1951 as amended through Act No. 30 of 1953	This Act sought to prohibit and control felling of specified trees (mainly intended to stop indiscriminate felling of specified trees) in the country.	Department of Forest Conservation
Water Resources Board Act, No. 29 of 1964 and (Amendment) Act, No. 42 of 1999	The act controls and regulates developments (including conservation and utilization) of water resources; prevention of pollution of rivers, streams and other water resources; formulation of national policies relating to control and use of water resources.	Ministry of Irrigation and Water Resources Management

Legislation	Relevance and main content	Authorizing Institution
Soil Conservation Act, No. 25 of 1951 and Amended No. 24 of 1996	This Act makes provisions for the enhancement of productive capacity of soil; to restore degraded land for the prevention and mitigation of soil erosion; for the conservation of soil resources and protection of land against damage by floods, salinity, alkalinity, water logging; and to provide for matters connected therewith or incidental there to.	Department of Agriculture
Explosives Act No. 36 of 1976	To provide control of explosions and regulations of matters connected with explosive activities related with the project.	Ministry of Defense
Municipal Councils Ordinance No. 29 of 1947, the Urban Councils Ordinance No. 61 of 1939 and the Pradeshiya Sabha Act No. 15 of 1987 as amended in 2010	Regulates and control actions pertaining to socioeconomic development such as roads, culverts, bridges, ferries, waterways and other means of local transport and related site clearance for constructing worker camps, site offices etc. and methods taking place within the command area relevant to government laws and regulations.	Ministry of Local Government and Provincial Council
Flood Protection Ordinance No. 04 of 1924, No 22 of 1955	An ordinance for protection of areas subjected to damage from floods. This includes declaration of flood areas, preparation of schemes for flood protection and other rules and regulations regarding flood in the country.	Irrigation Department
Crown Land Ordinance Act No. 1947	An ordinance to make provision for the grant and disposition of crown lands in Sri Lanka; for the management and control of such lands and the foreshore; for the regulation of the use of the water of lakes and public streams; and for other matters incidental to or connected with the matters related to proposed project.	Land Commissioners Department
Agrarian Development Act No. 46 of 2000 (Section 32)	This act regulates using paddy land for a purpose other than agricultural cultivation without the written permission of the Commissioner General.	Agrarian Services Department
Land development statuette No. 7 of 2002 the western province provincial council, amendment No. 1287/26 of 2003	A statute for regularizing utilization of state lands situated within the western province either by state or the provincial council, for regulating the distributing of the aforesaid lands and lands in	Governor - Western Province Provincial

Legislation	Relevance and main content	Authorizing Institution
	possession of the provincial council, for augmenting productivity of lands and for matters connected with or incidental to them this statute is in compliance with the crown lands ordinance no. 08 of 1947 (chapter 454) and the land development ordinance no.19 of 1935 chapter 464 as amended by land development . (amendment) acts, no. 16of 1969 no.27 of 1981, no 22 of 1998, no, 22 of 1995 1996. Of divesting of state lands, no. 07 of 1979.	Council and Land Commissioners Department
Sri Lanka Land Reclamation and Development Corporation Act 15 of 1968 as amended by Act No 52 of 1982	This act established Sri Lanka Land Reclamation and Development Corporation which grants permission for the public to fill marshy land subject to provision of storm water drainage.	Sri Lanka Land Reclamation and Development Corporation
National Thoroughfares Act, No. 40 of 2008	This act is known as RDA act which provide for planning, design construction, development, maintenance and administration an integrated public road network in Sri Lanka.	Road Development Authority
Urban Development Authority (UDA) Law No 41 of 1978 and Urban Development Projects (Special Provisions) Act No. 2 of 1980	This law provides for the establishment of an UDA to promote integrated planning and implementation of economic, social and physical development of certain areas as may be declared by the minister to be urban development areas and for matters connected with the relevant project activities. Urban Development Projects (Special Provisions) Act No 2 of 1980 is an act to provide for the declaration of lands urgently required for carrying out urban development projects and to provide for matters connected there with relevant project activities.	Urban Development Authority (UDA) under the Ministry of Urban Development and Defense
Town and country planning ordinance No. 13 of 1946 and The Town & Country Planning (Amendment) Act, No. 49 of 2000	This regulates the National Physical Plan with transport as the main component.	National Physical Planning Department (NPPD) under the Ministry of Urban Development and Defense
Buddhist Temporalities Ordinance No. 19 of 1931	This act provides necessary assistance to administer and protect the property of Viharas, interventions to settle disputes	Department of Buddhist Affairs

Legislation	Relevance and main content	Authorizing Institution
	regarding property of Viharas and makes recommendations to release money to be paid as compensation in respect of property of Viharas acquired by government for any development project.	
Cemeteries and burial grounds ordinance No. 9 of 1899 and amendments	The act regulates any disturbance, removal of burial, monuments and use of such areas for development project.	Local Government Authority
Antiquities Ordinance No. 9 of 1940 and amendments	The act regulates activities of projects located in close proximity of any archaeological reserves.	Department of Archaeology.

Under the NEA (No.47) and some of the laws and regulations listed in table 1.11.1, there are specific requirements for clearances, permits and licenses required for road project as listed in table 1.11.2.

Table 1.11.2 Applicable approvals required for the investment program

Project stage	Approvals	Project related activity	Relevant agency
Pre-Construction Stage Note: Although clearances and approval should be obtained during preconstruction stage it is valid throughout the project cycle. However, this should be renewed before expiry date.	Environment clearance	Implementation of the project.	Central Environmental Authority
	Clearance from Coast Conservation and coastal resources management department	Development activities in coastal areas	Coast Conservation and coastal resources management department
	Industrial Mining License (IML)	Operation of quarries, borrow areas and other material extraction sites	Geological Survey and Mines Bureau
	Environmental Protection License (EPL)	Operation of material extraction site including operation of asphalt plants, treatment plants etc.	CEA
	Local Government Authority Trade license and machinery permits	Deciding waste disposal sites, material storage and sites for worker camps and other project stations Trade license should be obtained for asphalt plants, batching plants, quarries etc.	Respective Provincial Council, Local authorities and respective Pradeshiya Sabha.
	Explosive Permits	Blasting activities	Ministry of Defense
	Approval for removal of trees	Road clearance for construction	Forest department, CEA and Local Authorities

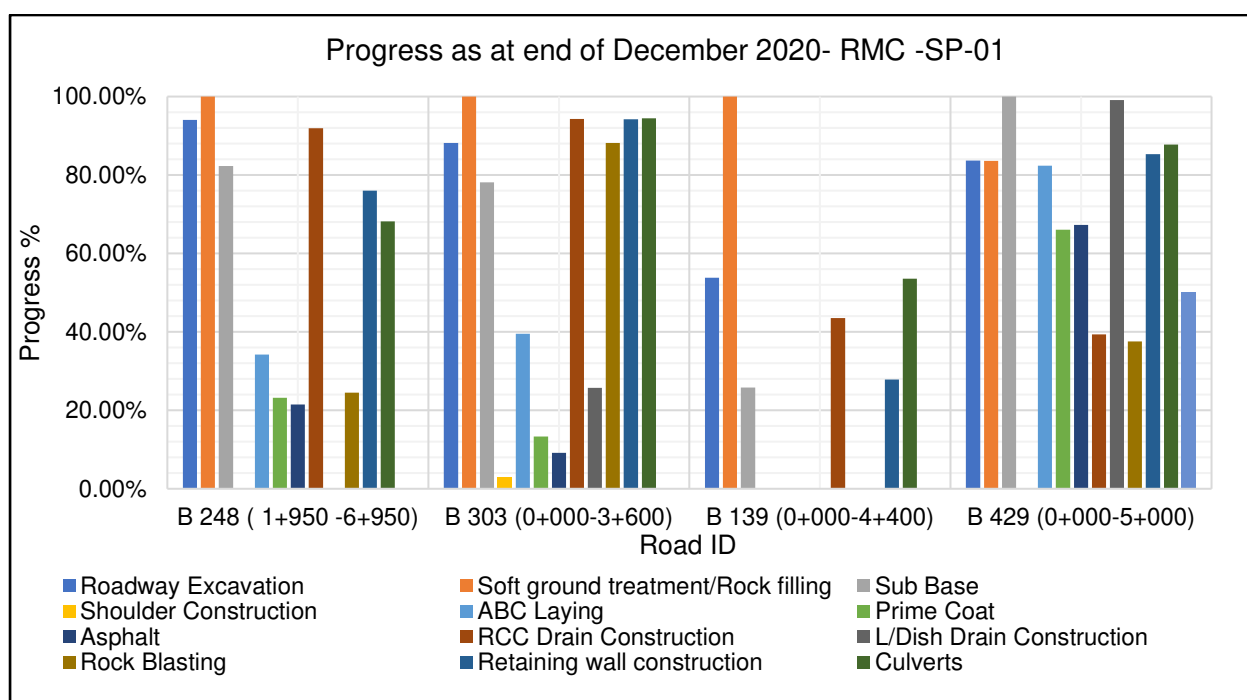
Project stage	Approvals	Project related activity	Relevant agency
	Disturbance to Paddy Lands	Ground preparation for ROW and side drains	Commissioner of Agrarian Services
Construction Stage	Consent from relevant government agencies	Construction of bridges, culverts and other drainage systems, land filling, dredging activities	Department of Irrigation, Department of Agrarian services, Local government authority, Land Reclamation and Development Cooperation
	Approval from relevant state /local agencies for the removal/ temporary disturbances for existing utilities	Surfacing, construction of bridges and side drains, embankment filling works	NWS&DB for water lines, Ceylon Electricity Board for Electric cable/poles, Sri Lanka Telecom for land line telephone cables, poles, Pradeshiya Sabha, other local authorities for drainage, sewer systems etc.

2 Overall Physical Progress of Implementing Packages

2.1 RMC SP-01

Table 2.1.1 Overall Physical progress of RMC SP-01 (up to 31 December 2020).

Description of works	Unit	B 248 (1+950 - 6+950)		B 303 (0+000- 3+600)		B 139 (0+000- 4+400)		B 429 (0+000- 5+000)	
		Completed	Percentage	Completed	Percentage	Completed	Percentage	Completed	Percentage
Roadway Excavation	Lm	3849	94%	3173	88%	2366	54%	3851	84%
Soft ground treatment/Rock filling	m (Road Length)	140	100%	1185	100%	556	100%	3844	84%
Sub Base	Lm	3826	82%	2812	78%	1137	26%	328	100%
Shoulder Construction	Lm	0	0%	170	3%	0	0%	0	0%
ABC Laying	Lm	1591	34%	1422	40%	0	0%	3788	82%
Prime Coat	Lm	1080	23%	480	13%	0	0%	3040	66%
Asphalt	Lm	1001	22%	330	9%	0	0%	3093	67%
RCC Drain Construction	Lm	5888	92%	922	94%	564	44%	760.7	39%
L/Dish Drain Construction	Lm	0	0%	92	26%	0	0%	2766	99%
Rock Blasting	m ³	166.48	25%	105.8	88%	0	0%	341	38%
Retaining wall construction	Lm	1300	76%	604	94%	196	28%	1663	85%
Culverts	nos	15	68%	17	94%	15	54%	43	88%
Bridges	nos	0	0%	0	0%	0	0%	1	50%

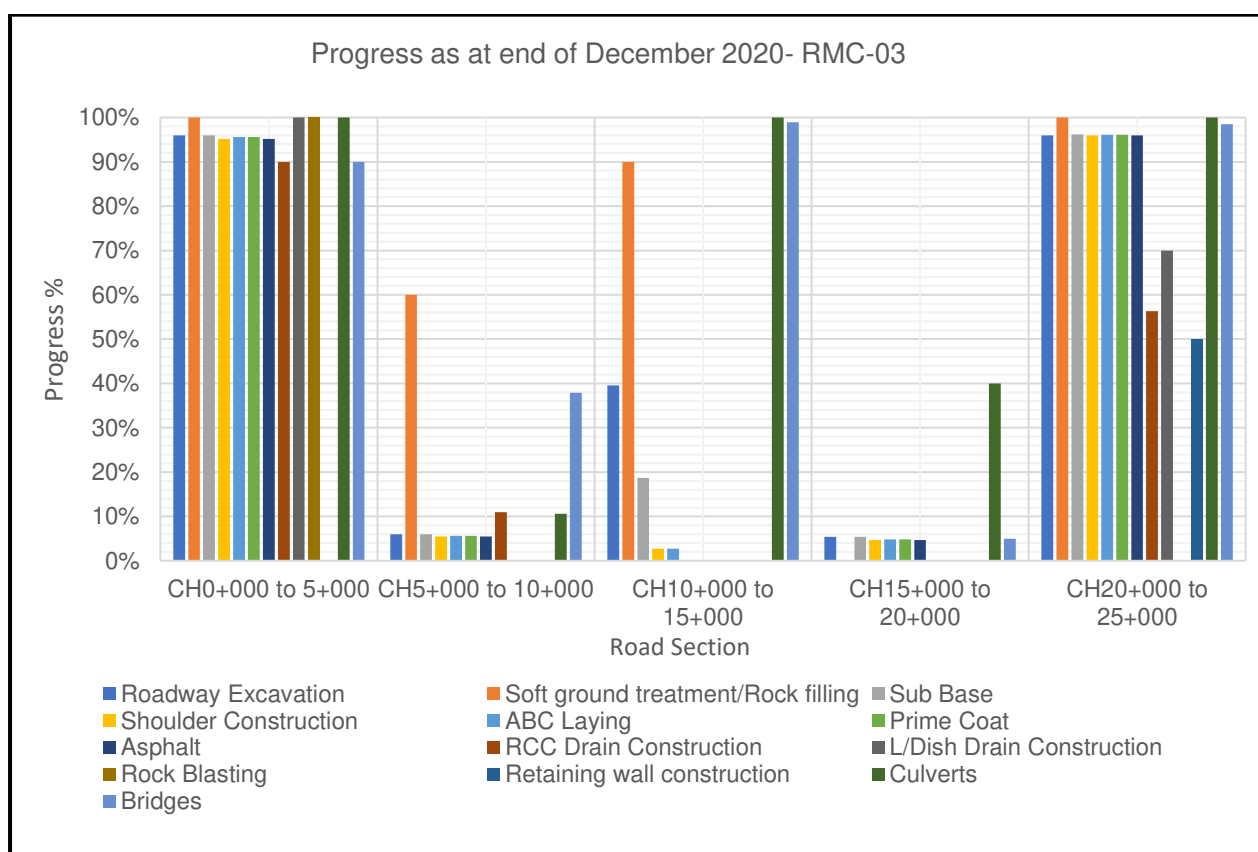


Graph 2.1 Graphical Illustration of overall physical progress (Road wise).

2.2 RMC-03

Table 2.2.1 Overall Physical progress of RMC -03 (up to 31 December 2020).

Description of works	Unit	Ch.0+000 to 5+000		Ch.5+000 to 10+000		Ch.10+000 to 15+000		Ch.15+000 to 20+000		Ch.20+000 to 25+000	
		Completed	Percentage	Completed	Percentage	Completed	Percentage	Completed	Percentage	Completed	Percentage
Roadway Excavation	Lm	9600	96%	600	6%	3963	40%	540	5%	9620	96%
Soft ground treatment/ Rock filling	m (Road Length)	15	100%	40	60%	600	90%	0	0%	70	100%
Sub Base	Lm	9600	96%	600	6%	3212	19%	540	5%	9620	96%
Shoulder Construction	Lm	9520	95%	550	6%	540	3%	470	5%	9600	96%
ABC Laying	Lm	9560	96%	560	6%	540	3%	480	5%	9610	96%
Prime Coat	Lm	9560	96%	560	6%	0	0%	480	5%	9610	96%
Asphalt	Lm	9520	95%	550	6%	0	0%	470	5%	9600	96%
RCC Drain Construction	Lm	900	90%	100	11%	0	0%	750	0%	309	56%
L/Dish Drain Construction	Lm	40	100%	0	0%	0	0%	0	0%	108	70%
Rock Blasting	m³	4.2	100%	0	0%	0	0%	0	0%	0	0%
Retaining wall construction	Lm	0	0%	0	0%	0	0%	0	0%	25	50%
Culverts	nos	12	100%	16	11%	17	100%	18	40%	14	100%
Bridges	nos	1	90%	14	38%	9	99%	3	5%	3	99%



Graph 2.2 Graphical Illustration of overall physical progress (Road section wise).

3 Compliance with environment safeguards requirements in the loan documents

The environmental safeguards requirements stipulated in the loan agreement (Tranche 1) FAM (November 2014) and EARF for iRoad program.

3.1 Compliance with respect to provisions in the loan agreement

The requirements stipulated in the loan agreement of, have been or are being complied with as detailed in the below table 3.1.1.

Table 3.1.1 Compliance with environmental safeguards requirement stipulated in loan agreement.

Item/ Section/ Schedule in loan agreement	Description	Status of Compliance
Schedule 5 Safeguards	2.The Borrower shall ensure, or cause RDA to ensure, that the preparation design construction, implementation , operation and decommissioning of the Project and all Project facilities comply with (a) all applicable laws and regulations of the Borrower relating to environmental, health and safety, (b) the Environmental Safeguards as set out in ADB's Safeguard Policy Statement; (c) the EARF and IEE; and (d) all measures and requirements set forth in the respective IEE and EMAP, and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	Being complied. These conditions are being followed by all designs and construction staff of contractors and MC monitor whether these conditions are follows by the constructor's staff.
Schedule 5 Safeguards	3. The Borrower shall ensure, or cause RDA to ensure, that the project does not have any Indigenous Peoples safeguards and Involuntary Resettlement Safeguard impacts, both within the meaning of SPS. In the event that the project does have any such impact, the Borrower through Ministry of Highways and RDA shall take all steps required to ensure that the project complies with the RF and IPPF, applicable laws and regulations of the Borrower and with SPS.	Complied. To ensure the above conditions, the Borrower included relevant clauses in the agreement signed between RDA and Contractors.

Item/ Section/ Schedule in loan agreement	Description	Status of Compliance
Schedule 5 - Human and Financial Resources to implement safeguards Requirements.	5. The Borrower shall make available, or cause RDA to make available, necessary budgetary and human resources to fully implement the SPS, IEE, EMP and any safeguard documents which may be prepared for the project.	Being complied.
Schedule 5 – Safeguards Monitoring and Reporting.	6. The Borrower shall do the following or cause RDA to do the following: (a) submit annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission. (b) if any un anticipated environmental and/or social risks and impacts arise during construction, implementation or operation of the project that were not considered in the IEE, EMP, and any safeguard documents, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and (c) report any actual or potential breach of compliance with the measures and requirements set forth in the IEE, EMP and any safeguard documents promptly after becoming aware of breach.	Being complied.
Schedule 5 –Labor Standards	8. The Borrower shall ensure that (a) all contracts under the project comply with all applicable labour laws and regulations, do not allow employment of child labour for project activities, encourage the employment of the poor, particularly women, and provide appropriate facilities for women and children in work sites.(b) People directly affected by the project are given priority to be employed by the project (c) contractors do not differentiate wages between men and women for work of equal value and (d) specific clauses ensuring these shall be included in the contracts.	Being complied.

3.2 Compliance with Requirements in Environmental Assessment Review Framework (EARF)

EARF guide selection, screening categorization impact assessments, projects implementation and monitoring of environment safeguards according to requirements of the Government of Sri Lanka (GoSL) as well as the ADB safeguard Policy Statements (SPS). The requirements stipulated in the EARF have been or are being complied with as detailed in the table 3.2.1

Table 0.1 Compliance with Environmental Assessment Review Framework (EARF)

Item/ Section/ Schedule in EARF	Description	Status of Compliance
II. LEGAL FRAMEWORK AND INSTITUTIONAL CAPACITY. A. GoSL legal framework on environmental safeguards.	<p>7. The National Environment Act (NEA) No. 47 is the key environmental policy framework which is administered through the Central Environment Authority (CEA) of the Ministry of Environment and Renewable Energy (ME & RE). NEA No. 47 was enacted in 1980 and NEA amendment Act No. 56 of 1988 stipulated the regulations for assessing and managing environmental impacts and obtaining the environmental clearance in a timely and systematic manner. The environmental clearance process is implemented through the designated Project Approving Agency (PAA) as prescribed by the Minister under section 23 Y of the NEA. The procedure that should be followed for obtaining environmental clearance is described under section 23CC and 32 of the NEA.</p> <p>8. The environmental clearance process should be initiated by submitting the completed Basic Information Questionnaire (BIQ) to CEA with preliminary information about the project including exact locations of the project components, extent and environmental sensitivity related to project activities. Based on this CEA decides whether the project is a “Prescribed Project”² or not and who the PAA will be for administering the IEE or EIA process to obtain environmental clearance if the proposed project is a prescribed project.</p>	<p>Being complied.</p> <p>Environmental Clearance has been taken by RDA for RMC-SP-01 & RMC -03 packages.</p> <p>Complied.</p>

Item/ Section/ Schedule in EARF	Description	Status of Compliance
	<p>10. If a project road falls adjacent to the boundary or inside a protected area, necessary clearance will need to be sought from the Department of Wildlife Conservation (DWLC) and the Forest Department even if there will be no widening of the road ROW. Depending on the sensitivity of the protected area, the DWLC and Forest Department may require conduction of an IEE or EIA study for the respective road. No works are allowed in project roads falling inside Strict Nature Reserves.</p> <p>15. The Project Implementation Unit (PIU) under RDA, MOHPS is responsible for overall conduction of environmental assessments, implementation and monitoring of environment safeguards for specific project roads under the investment program. Within RDA there is a separate unit, the Environment and Social Development Division (ESDD) to cover social and environment safeguards. The division is responsible for developing manuals and guidelines, helping in conduction of proper safeguard assessments, and implementation and monitoring of environment and social safeguards in accordance with environmental policies of GoSL and donor agencies. However, since ESDD is responsible for all projects under RDA and given the large scale of the investment program this division will not have adequate time and resources to implement and monitor safeguards for the investment program. Therefore, a separate safeguards team dedicated to the investment program will be created within the PIU for managing safeguards. ESDD will provide technical support and monitor the implementation of safeguards under the investment program on a biannual basis as necessary.</p>	<p>Being complied.</p> <p>None of the project roads falls adjacent to the boundary or inside a protected area. Hence clearance is not required from the Department of Wildlife Conservation (DWLC) and the Forest Department.</p> <p>All the conditions stipulated in the NEA and other related National laws regulations list in Annex 1 are being followed by all design and construction staff of contractor and MC staff. Also, the MC staff monitor whether these conditions are established in ground by the contractor's staff (during construction works).</p>

Item/ Section/ Schedule in EARF	Description	Status of Compliance
	<p>16. The safeguards team will comprise of sufficient social and environment safeguards officers as necessary to cover the quantum and geographic distribution of works in all provinces under the investment program. The safeguards team will be supported by a team of environmental consultants under the Project Implementation Consultants (MC) for daily monitoring of EMP implementation and compilation of monitoring checklists and reports. Environmental assessments for succeeding tranche's will be carried out by a Survey and Preliminary Engineering (SAPE) team under RDA. A detailed safeguard training workshop will be conducted for the PIU, safeguards team, SAPE and MC to clarify the roles and responsibilities of each party, method of consultation and record keeping and reporting requirements before the conduction of environmental assessment studies for each tranche.</p>	<p>Being complied.</p> <p>RDA has appointed safeguard team under the guidance ESDD of the RDA. The safeguard team of PIU comprise an Environmental Safeguard Officer (ESO), a Social Safeguards Officer (SSO).</p>
<p>III ANTICIPATED ENVIRONMENTAL IMPACTS</p>	<p>24. During the construction phase activities such as removal and re-establishment of public utilities; removal of road side trees, mining of gravel and sand; quarrying of metal; transportation of construction materials; disposal of construction waste; establishment of construction material processing plants, storage yards, labor camps, vehicles and equipment service yard and other facilities will have to be implemented. These actives can cause several negative impacts on the local environment in the form of air pollution, water pollution. Generation of noise, soil erosion, generation of solid waste, loss of vegetation and aesthetic beauty and safety issues as people and vehicles will still be using the road during construction. Mitigation measures that will be implemented to address these issues will include but not be limited to: wet spraying to control dust; limiting working hours to minimize disturbance; regular maintenance of construction vehicles and equipment; proper disposal of construction debris; maintenance of proper</p>	<p>Being complied</p> <p>Package specific EMAP's have been developed by each contractor based on the IEE's EMP. Those EMAP consists of proposed to mitigate impacts with specific locations and mitigations measure for the impacts. Implementation of EMAP is a contractual requirement in the contract between RDA and the contractors.</p>

Item/ Section/ Schedule in EARF	Description	Status of Compliance
	<p>hygiene and safety standards and facilities in the camps and working areas; development and implementation of erosion control and silt management measures, compensatory afforestation and enforcement of road safety measures for local people and traffic.</p> <p>25. If any of the roads fall inside or near protected areas such as national parks, wildlife sanctuaries or other forms of conservation areas, proper consultation will be held with the respective national and local wildlife authorities. To the extent possible all efforts will be made to include technical measures in the road design to minimize or mitigate negative impacts on wildlife and enhance habitat conditions or migratory pathways for wildlife.</p>	<p>None of the roads fall inside or near protected areas such as national parks, wildlife sanctuaries or other forms of conservation areas.</p>
	<p>26. During the operation and maintenance phase minor physical works will still be implemented such as clearing drains, filling of potholes, maintaining saplings that were planted and others. The improved road conditions will result in increased number as well as speed of vehicles. This can cause an increase in accidents and other safety issues. Minor increase in greenhouse gas (GHG) emissions and noise can also be expected from the increased traffic. The contractor will be responsible to ensure that all road safety measures such as speed breakers, safety sigs and others are well maintained for a period of seven years for the case of the case of the national road. Compensatory afforestation is expected to offset the increased GHG emissions up to a certain extent. If noise levels exceed the prescribed standards the contactor will be responsible for implementing suitable mitigation measures such as construction of noise barriers and others.</p>	<p>Being complied.</p> <p>Road Safety Audits have been carried out to ensure contractors include necessary designs and signage improve to road user safety.</p> <p>Awareness programs on road safety were conducted for drivers/machine operators in construction packages.</p>
IV ENVIRONMENTAL ASSESSMENT PROCEDES	<p>34. The environment checklists with annexes on trees, utility structures, community structures, strip plans and photographs will be completed for each end every road. Based on the completed environment checklists for each road including bridges, one IEE report will be prepared for each province. However,</p>	

Item/ Section/ Schedule in EARF	Description	Status of Compliance
C. Environmental Assessment and Environmental Management Plan	the report must clearly present information and issues that may be unique to a district or geographic area or project road. All sensitive issues identified in the environment checklists for each project road must be clearly documented in the IEE report. The IEE report will include one general or standard EMP that will cover all impacts and mitigation measures possible within the respective province. Contract package specific EMP's will be prepared by the contractor by referring to the standard EMP, road specific information in the environmental checklists and the detailed design (level 1 design). The draft IEE report including standard EMP will be prepared in accordance with Safeguard Requirement one of the SPS and submitted to ADB for review and approval in a timely manner to allow disclosure of the draft final report on the ADB website before the Management Review Meeting (MRM) or approval of the respective tranche (if there is no MRM). The road specific EMP prepared by the contractor will be reviewed and approved by the MC and/or the PIU prior to the start of any physical works by respective contractor.	Being complied.
V.CONULTATION, INFORMATION DISCLOSURE AND GRIEVANCE REDRESS MECHANISM A. Public Consultation	<p>37. The public consultation and information disclosure is an important part of the environmental safeguard requirements under ADB SPS (2009). In addition, the NEA of GoSL also considers stakeholder engagement as a key element for successful management of environmental impacts.</p> <p>38. Meaningful public consultations will be held early on and continuously throughout the project development stage to allow the incorporation of relevant views of the stakeholders in the final project road design, mitigation measures, implementation issues, and enhance the distribution of benefits. Stakeholders will include project beneficiaries, local affected people, government bodies, and non-governmental organizations. The consultations must encourage participation of women and vulnerable groups (handicapped people, senior citizens, school children) and engage as many stakeholders as possible.</p>	<p>Being complied</p> <p>Public consultation also done during joint inspections by PIU, MC and contractor for all the roads before construction (during initial awareness meetings).</p>

Item/ Section/ Schedule in EARF	Description	Status of Compliance
	<p>39. Consultations will be carried out in environment free influences and will be done during conduction of transect walk while completing the environment checklists and/or through focus group discussions and/or household level or key person interviews which will start with the description of the project road design and initial identification of potential impacts. Feedback and recommendations received during the consultations will be addressed and where relevant incorporated in the environmental assessment and EMP. These consultations must be completed before finalization of the respective Periodic Financing Request (PFR) and all proceedings documented clearly in the IEE report.</p>	Being complied
A. Information Disclosure	<p>According to the requirements of the ADB SPS, for environment category B project roads the respective draft IEE will be disclosed before the Management Review Meeting (MRM) or equivalent meeting or approval of the respective tranche, if there is no MRM. Signboards with project information including details on nature of construction work, road length, construction period, name of contractor, contract sum and contact information for reporting complaints or grievances will be posted in three languages (Sinhala, Tamil and English) for rural roads. For the national (OPRC) roads there will be sign boards on period of works and contact information for reporting complaints or grievances in three languages.</p> <p>42. During project implementation, annual environmental monitoring reports will be prepared per province and submitted to ADB for disclosure on the ADB website.</p>	Being complied.
C. Grievance redress mechanism	<p>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. The</p>	Being complied.

Item/ Section/ Schedule in EARF	Description	Status of Compliance
	first will be at the grass level where complaints will be directly received and addressed by the contractor, MC or PIU representative on site. Grievances which are simple but still cannot be addressed at the grass roots level will be addressed at the Grama Niladhari (GN) level. More complex grievances which cannot be addressed at the GN level will be addressed at the Divisional Secretariat (DS) level. There will be a Grievance Redress Committee (GRC) at the GN and DS levels.	

4 Monitoring of Environmental Safeguard Compliance at Field Level

4.1 The Documents to be Submitted by the Contractors

As per the contract agreements and EARF the contractors require to submit SSEMAP, EMCs and monthly progress reports. In addition, the contractors require to obtain approvals, licenses and permits for road construction activities, yards, quarries and material extraction pits. Status of the submission of SSEMAPs and EMCs by the contractors and acceptance given by MC are listed in table no 4.1.1.

Table 4.1.1 Status of the submission of SSEMAPs and EMCs by contractors as per 31 December 2020.

Package	SSEMAP Submission		EMC Submission									
			Preconstruction		25%		50%		75%		100%	
	Submitted by Contractor	Accepted by MC	Submitted by Contractor	Accepted by MC	Submitted by Contractor	Accepted by MC	Submitted by Contractor	Accepted by MC	Submitted by Contractor	Accepted by MC	Submitted by Contractor	Accepted by MC
RMC-SP-1	Yes	Yes	1 (for all roads)	1 (for all roads)	1	1	-	-	-	-	-	-
RMC-3	Yes	Yes	5	5	2	2	2	2	2	2	-	-
Total	-	-	6	6	3	3	2	2	2	2	-	-

4.2 Licenses and Approvals

Section II of EARF, legal framework and institutional capacity, 12 para, table 3 stipulates applicable approvals required for the investment program in the Table 3 page no 7 of EARF as applicable approvals required for the Integrated Road Investment Program.

Status of license and approval of the contracts in the RMC as at 31 of December 2020 are given in the annexure I.

4.3 Submission of monthly Environmental Progress Report

According to sub clause 5.9.3 in contract condition of the contract agreement, each contractor should submit a monthly progress report on environmental issues. This monthly report includes, summary of weather records, summary of road construction activities, environmental issues identified and action taken or mitigation measures applied, status of submission of EMAP, SSEMAP, EMC, tree removal and tree planting, status of licenses and approvals and details of yards. A sample of monthly progress report is attached in annexure II.

4.4 Grievance Redress Mechanism (GRM) of the project

Section C of EARF and Section vi of RF explain the need of handling public grievances especially during the project implementing period of iRoad program.

The Grievance Redress Mechanism (GRM) is necessary to support general public to resolve their problems arising due to project activities.

GRM is an arrangement for receiving, evaluating and facilitating the resolution of affected person's requests, complaints, suggestions and grievances on social and environmental performances of the project. Affected persons need a trusted way to voice and resolve project related concerns. During the reporting period handled complaints and Social issues as stated in section VI of Resettlement Framework (RF) and subsection V of Environment Assessment and Review Framework (EARF). Last year the program has been following procedures according to above documents.

Status of number of GRC's established are listed in table no 4.4.1.

Table 4.4.1 Status of GRC's established as at 31 December 2020.

Package Name	Total GRC's to be established		Established	
	Divisional Secretariat Level	Grama Niladhari Level	Divisional Secretariat Level	Grama Niladhari Level
RMC – SP 01	6	42	6	29
RMC – 03	2	12	2	2
Total	8	54	8	31

4.5 Grievances Submitted

The community awareness meetings held at the commencement of the project; a public notice developed in local language is being displayed at community attracted places in the project area. The main purpose of the notice is to create awareness among communities on the project, understand to what extent the community can involve in project activities and how to make complaints, suggestions, grievances and requests to the project. The public notice brings the key information about the project and contact numbers of relevant officers of the project whom to be contacted regarding social and environmental issues.

❖ Grievances Receiving Channels

A system of channels has been established to receive public suggestions, requests, complaints and grievances by the project. The public is clearly informed that they can follow any of the following channels in submitting their complaints/ grievances/ suggestions or requests to the project.

❖ Directly from Interested Parties

Some interested parties direct their complaints through telephone, from letter or at meeting their complaints to the Contractor, MC, PIU and Government officers (DS or GN). These complaints are conveyed to the contractor by the receiver through PIU.

❖ Complaints, Request and Suggestion Box

Availability of complaints, suggestions and Request Boxes at the work sites has been identified as one of the effective methods to share views of public design stage and construction stage. These boxes are installed at contractor's site offices in all contract packages, Grama Niladhari's office and common places of the construction sites. The project management team expect to collect the community written ideas through these boxes. Complaints, request and suggestion are being collected from the boxes at the end of each week. MC has introduced a common format for the complaints, request and suggestion boxes.

Summary of public complaints, requests and suggestions received during the reporting period are listed in table no 4.5.1 and 4.5.2.

Table 4.5.1 Summary of public complaints, requests and suggestions received during the reporting period Maradankadawela – Habarana Road – RMC 03.

Route No	Road Name	Cumulative total up to January –December 2020			Attended	To be attended	Completed (feedback form submitted)	In progress
		No. of complaint	No. of Suggestions	No. of Requests				
A011	Maradankadawala-Habarana	74	03	209	243	43	60	98

Table 4.5.2 Summary of public complaints, requests and suggestions received during the reporting period
Karapitiya – Thawalama Road - RMC SP 01.

Route No	Road Name	Cumulative total up to January – December 2020			Attended	To be attended	Completed	In progress
		No. of complaint	No. of Suggestions	No. of Requests				
SP-01	Karapitiya – Thawalama Road	38	01	240	269	10	142	127

4.6 Environmental Safeguard Compliances field monitoring

Field monitoring of environmental safeguard compliance is being carried out by ADB resident mission, ADB safeguard specialist, MC, PIU and ESDD.

4.6.1 Field inspection by ADB mission

Field inspections and awareness were conducted on 29th of September 2020 by ADB resident mission jointly with MC, PIU and contractor's staff to review the overall progress of the project including implementing safeguards activities of the project.



Figure 4.6.1 & Figure 4.6.2 Field inspection conducted by safeguard specialist ADB, ESDD, MC, PIU and contractor's staff on 29th September 2020 of B 248 in RMC SP-01 Package.



Figure 4.6.3 Discussion with Public while ADB field inspection on B 248 Road RMC SP-01 Package.



Figure 4.6.4 Meeting conducted by safeguard specialist ADB, ESDD, PIU, MC and contractor's staff RMC SP-01 Package.

4.6.2 Field inspection by ESDD

ESDD members visited the site on 25th February 2020.



Figure 4.6.5 & Figure 4.6.6 Field inspection conducted by ESDD,PIU,MC and Contractor's staff for Environmental, Social and Safety compliances in RMC SP-01 Package.



Figure 4.6.7 & Figure 4.6.8 Meeting conducted by ESDD,PIU,MC and Contractor's staff for Environmental, Social and Safety compliances in RMC SP-01 package.

4.6.3 Monthly Environmental, Social and Safety Inspection/Meeting

A field inspection and meeting are been held every possible month with the PIU, MC, and the contractor's staff to minimize the site-level environmental, social, safety issues and to provide immediate solutions.

Environmental Specialist, Environmental assistants, Social Gender Resettlement Specialist, Social assistants and Construction Engineer of MC, Environmental safeguards officers of PIU, Project Engineer of RDA of and relevant construction staff members jointly conducted field inspections of road construction site/plants/yards and material excavation sites in advanced with the requirements. Monitoring of Environmental Safeguard Compliances inspecting environmental issues in the field, checking EMC and verifying information of contractor's monthly environmental monitoring reports provide guidance and instructions for the arisen issues were done during field visits. Sample of the report attached as Annexure IV.



Figure 4.6.9 & Figure 4.6.10 Conducting field inspection and implementing safeguard activities by Environmental Specialist, Social Gender Resettlement Specialist, MC staff ,PIU and Contractor's staff-



Figure 4.6.11 & Figure 4.6.12 Meeting conducted by PIU, MC and Contractor's staff for Environmental, Social and Safety compliances -RMC SP-01 Package.

4.7 Environmental Quality Monitoring

The contractor shall engage the services of a competent local organization, to conduct environmental quality monitoring for ambient air quality, surface and ground water quality, noise level and vibration level at each of the key locations agreed as a part of updated EMoP.



Figure 4.7.1 Air quality monitoring at road B 429 (Ch.3+880) RMC SP-01Package.



Figure 4.7.2 Conductivity, pH, Salinity checked on well water samples adjacent to batching plant at road B 248 RMC SP-01 Package.



Figure 4.7.3 Noise and vibration level monitoring adjacent to batching plant at road B 248 RMC SP-01Package.



Figure 4.7.4 Collecting surface water samples at road B 429 (Ch.3+000) RMC SP-01 Package

5 Environmental Impacts observed and status of their compliance



Possible environmental impacts from project activities and mitigation measures to be taken were clearly included in SSEMAPs submitted by the contractors. Hence most of the environmental impacts were mitigated in the ongoing project activities. Contractor's own EO, MC staff and PIU staff continued monitoring of environment compliance and public assisted in raising environmental best practices and issues related to road construction. The impacts observed, mitigation measures adopted with road specific examples are discussed in this section.


5.1 Environmental Issues observed by contractor's staff and Environmental Issues reported by public and the status of the compliance





Environmental issues observed by the contractor's staff and reported by the public were rectified by the contractor's staff at the field level with guidance from MC and PIU staff. Instructions required to rectify some environmental issues were given from MC staff especially for issues that did not effectively mitigate through standard practices given in the SSEMAP.




Summary of key environmental issues observed by the contractor's staff and reported by the public and measures taken during the reporting period presented in table 5.1.1

Table 5.1.1 Key environmental impact observed and mitigation taken by contractor

Package	Observed environmental Issue	Mitigation measure/s taken by contractor
RMC SP-01 RMC 03	<ul style="list-style-type: none"> Dust generation during construction at Site, yard operation and material transportation. 	<ul style="list-style-type: none"> Watering the roads. Providing dust barriers for wherever required. Covering all materials with tarpaulin during transportation.
 <p>Figure 5.1.1 watering the roads to mitigate dust emission road B-248 (Ch.2+870) RMC SP-01 Package</p>		 <p>Figure 5.1.2 watering the roads to mitigate dust emission road A-011 (Ch.24+180) RMC -03 Package.</p>

 <p><i>Figure 5.1.3 Providing dust barriers and covering stock materials in stock yards, road B 129 RMC SP-01 Package.</i></p>	 <p><i>Figure 5.1.4 Providing dust barriers for adjacent houses, road B139 (Ch.1+900) RMC SP-01 Package.</i></p>
 <p><i>Figure 5.1.5 Covering the materials during transportation, road B 303 (Ch.3+180) RMC SP-01 Package.</i></p>	 <p><i>Figure 5.1.6 Providing dust barriers for adjacent houses, crusher plant at Medawachchiya RMC- 03 Package.</i></p>
<p>RMC SP-01 RMC 03</p>	<ul style="list-style-type: none"> • Soil erosion, sedimentation from construction works, operating stock/ dumping yards and operating plant premises. • Provide retaining walls whereas required. • Provide erosion control methods for disposal yards. (Toe walls, live fences etc.) • Turfing the slope areas. • Provide silt traps whereas required at the plant premises and throughout the road.

 <p><i>Figure 5.1.7 Providing retaining walls to minimize soil erosion road B 303 (Ch.2+645 RHS) RMC SP-01 Package.</i></p>	 <p><i>Figure 5.1.8 Providing retaining walls to minimize soil erosion road A-011(Ch.3+200 RHS) RMC-03 Package.</i></p>
 <p><i>Figure 5.1.9 Providing toe walls and live fences to minimize soil erosion road B139 (Ch.0+540 LHS) RMC SP-01 Package.</i></p>	 <p><i>Figure 5.1.10 Providing toe wall for disposal yard to minimize soil erosion road A-011(Ch.10+650 RHS) RMC -03 Package.</i></p>
<p>RMC SP-01 RMC 03</p>	<ul style="list-style-type: none"> • Water stagnation at site. • Cleaning culvert lead away drains and drainage paths. • Provide new culverts and concrete drains whereas required.

 <p><i>Figure 5.1.11 Culvert clearing road B 454 (Ch.5+290 RHS)) RMC SP-01 Package.</i></p>	 <p><i>Figure 5.1.12 New construction of U drains at road A-011 (Ch.3+990 LHS)) RMC -03 Package.</i></p>
<p>RMC SP-01 RMC 03</p>	<ul style="list-style-type: none"> • Remove natural vegetation and tree removing. • Minimize the removal of natural vegetation and tree removing by providing some design changes. • Planting tree saplings (1:3 ratio) instead of the removed tree. (Refer 5.2 sub section)
 <p><i>Figure 5.1.13 Saved trees in shoulder area by center line shifting road A-011 (Ch.4+050- 4+200 RHS) RMC-03 Package.</i></p>	 <p><i>Figure 5.1.14 Saved Bulu tree (Terminalia bellirica) in drain construction providing structure road B-429 (Ch.0+336 RHS) RMC-SP-01 Package.</i></p>

5.2 Environmental Issues observed by the PIU and MC staff and the status of the compliances

Some Environmental Impacts were observed by PIU and MC which are not comply with project specifications and approved SSEMAP.

Table 5.2.1 Summary details of environmental issues observed by PIU staff and MC staff and their status of compliance on RMC SP-01.

Environment Issue Observed	Mitigation measure/s taken by contractor	Effectiveness or recommended action by MC	Status of rectification as per MC recommendations or remarks
• Disposal soil eroded to nearby canal.	• Remove disposal materials from the canal and implement soil erosion control measures for yards.	PIC monitor continuously until completion of the remediation measures.	Rectification was done to a satisfactory level.
• Concrete washouts disposed throughout the Site.	• Remove all concrete washouts from the site and Implement concrete washout pits in approved disposal yard.		
• Soil and debris disposed /stock unapproved locations.	• Removed stock / disposed materials to approved location or if there is possibility to get approval for that location, getting approval from relevant authorities.		
• ABC surplus disposed nearby tea cultivation land.	• Remove all ABC materials from this land.		
• Dust generation due to use of quarry dust for priming.	• Sand used for priming instead of quarry dust.		
• Disposal yards were not properly restored.	• Disposal yards were restored properly.		

Environmental Impacts Observed by PIC and PIU and Mitigation Measures Implemented by the Contractor in RMC SP-01 Package



Figure 5.2.1 Disposed soil eroded to nearby canal road B 303 (Ch.2+000 RHS)



Figure 5.2.2 Disposed soil removed from the canal and Soil erosion mitigation measures provided B 303 (Ch.2+000 RHS)



Figure 5.2.3 Concrete washouts can be seen throughout the site Road B 139 (Ch.1+050 LHS)



Figure 5.2.4 Concrete washout pits provided for each and every site B 139. (Ch.0+540 LHS)



Figure 5.2.5 Material stocked at unapproved locations B 248. (Ch.6+140 RHS)



Figure 5.2.6 Remove all stock materials to approved stock yard B 248. (Ch.6+140 RHS)



Figure 5.2.7 Material disposed at unapproved locations B 303. (Ch.0+700 LHS)



Figure 5.2.8 Remove all disposed materials to approved disposal yard. B 303. (Ch.0+700 LHS)



Figure 5.2.9 ABC Surplus kept nearby tea land B 248. (Ch.4+640 LHS)



Figure 5.2.10 Remove all ABC from the tea land B 248. (Ch.4+640 LHS)



Figure 5.2.11 Dust generation due to use of quarry dust after priming B 248. (Ch.4+660 LHS)



Figure 5.2.12 Sand use for after priming instead of quarry dust B 429. (Ch.3+300 LHS)



Figure 5.2.13 Poor waste management at Batching plant.



Figure 5.2.14 Providing waste bins for plant and encourage to separate wastes.



Figure 5.2.15 Disposal yard before restoration, road B 303. (Ch.2+885 LHS)



Figure 5.2.16 Disposal yard after restoration, road B 303. (Ch.2+885 LHS)

Table 5.2.2 Summary details of environmental issues observed by PIU staff and MC staff and their status of compliance on RMC-03 Package.

Environment Issue Observed	Mitigation measure/s taken by contractor	Effectiveness or recommended action by MC	Status of rectification as per MC recommendations or remarks
<ul style="list-style-type: none"> Disposal soil eroded to nearby tanks areas. 	<ul style="list-style-type: none"> Disposed materials removed. 	PIC monitor continuously until completion of the remediation measures.	Rectification was done for satisfactory level.
<ul style="list-style-type: none"> Concrete washouts disposed throughout the Site. 	<ul style="list-style-type: none"> Remove all concrete washouts from the site and Implement concrete washout pits in approved disposal yard. 		
<ul style="list-style-type: none"> Soil and debris disposed to unapproved locations. 	<ul style="list-style-type: none"> Removed disposed materials to approved location or if there is possibility to get approval for that location, getting approval from relevant authorities. 		
<ul style="list-style-type: none"> Disposal yards were not properly restored. 	<ul style="list-style-type: none"> Disposal yards were restored properly. 		
<ul style="list-style-type: none"> Soil erosion in embankment area. 	<ul style="list-style-type: none"> Turfing the area. 		

Environmental Impacts Observed by PIC and PIU and Mitigation Measures Implemented by the Contractor in RMC-03 Package



Figure 5.2.17 Unauthorized soil disposal (Yakanagas wewa tank area.) Road A 011, (Ch.20+430 RHS)



Figure 5.2.18 Soil removed and turfing (Yakanagas wewa tank area.) Road A 011, (Ch.20+430 RHS)



Figure 5.2.19 Unauthorized dumping of tree removal debris Road A 011 (Ch.3+520 LHS)



Figure 5.2.20 Remove the tree removal debris Road A 011. (Ch.3+520 LHS)



Figure 5.2.21 Un authorized dumping of asphalt waste Road A 011. (Ch.5+410 – 5+440 LHS)



Figure 5.2.22 Asphalt waste has been removed Road A 011. (Ch.5+410 – 5+440 LHS)



Figure 5.2.23 Unauthorized dumping of Concrete waste in eroded embankment Road A 011. (Ch.20+725 LHS)



Figure 5.2.24 Concrete wastes removed and turfing completed Road A 011 (Ch. 20+725 LHS)



Figure 5.2.25 Soil erosion at shoulder Road A 011(Ch. 23+175 RHS)



Figure 5.2.26 Soil erosion controlled by providing RCC wall Road A 011. (Ch.23+175 RHS)



Figure 5.2.27 Soil erosion at shoulder area Road A 011. (Ch.2+985 LHS)



Figure 5.2.28 Turfing Completed. Road A 011 (Ch.2+985 LHS)

5.3 Mitigation measures taken for flood impacts and inundation

To avoid water stagnation/ flood impacts, structures have been designed with appropriate opening sizes that would enable a smooth water flow. Vertical profile raising, concreting the shoulders and embankment slopes as per typical drawings are being done for the road sections which face inundation during heavy rainy season.



Figure 5.3.1 Road inundated due to spillage of Yan Oya Road A 011. (Ch. 23+580 - 23+720) RMC-03 package.



Figure 5.3.2 Concreting the shoulders and embankment in flood prone area Road A 011. (Ch. 23+580 - 23+720) RMC-03 package.



Figure 5.3.3 Water stagnation/flooding area in heavy rains Road B 429 (Ch.1+350- 1+600) of RMC SP-1 package.



Figure 5.3.4 Vertical profile raised to avoid road water stagnation Road B 429 (Ch.1+350- 1+600) of RMC SP-1 package.

5.4 Awareness and training programs

Following are the details of workshop and training programs conducted during the reporting period.

5.4.1 Snake Awareness Program

RMC SP-01 Package organized a Snake awareness program for their rooting maintenance team.

Description:

One hundred seven (107) snake species can be found in Sri Lanka and fifty-four (54) species are endemic to the island. The majority of snake species are non-venomous. But, many Sri Lankans believe that all snakes are venomous and their bite can kill a human being. Therefore, they kill all snakes which they meet in day-to-day life.

The RMC SP-01 project located in a wet zone and near to Kanneliya rain forest reserve. Because of that, there is a possibility to meet a huge variety of animals throughout the Site. As per the previous experiences, we identified the road maintenance teams may be vulnerable to snake bites. Therefore, the awareness was mainly focused on the road maintenance team in the project.

Through this awareness program, workers were made aware of the snakes and their importance to the ecosystem, how to identify venomous and non-venomous species, how to behave in snake bite, and the reality of the myths about snakes.

The Program was held on 13 June 2020 in Office premises in Galle. (Due to the COVID-19 pandemic, we had to restrict the number of participants.) The resource person was Mr. Vishan Pushpamal.



Figure 5.4.1 Participants of the snake awareness program.



Figure 5.4.2 Demonstrate using live species: Boiga forsteni.



Figure 5.4.3 While discussing how to identify venomous and non-venomous species.



Figure 5.4.4 Demonstrate using live species: Python molurus.

5.4.2 Environmental, Health and Safety Awareness Program

The Environmental, Social and site safety awareness were conducted for site staff in RMC SP-01 and RMC-03 packages. Awareness was conducted by Environment Specialist and Assistant Environmental Officers of RMC packages. Main topics which were discussed in this awareness program:

- Present issues on disposal of debris and stock materials.
- Approvals required to operate a disposal and stock yards.
- How to maintained a disposal or stock yard.
- Possible precaution methods to minimize environmental impacts in construction area.
- Effectively handling of dust control measures.
- Safety arrangements at Site, Public safety issues, labour Safety and use of PPEs.
- Public issues related to construction activities and how to handle.
- Proper following of COVID-19 prevention guide lines.

Key Participants:

- Environmental officers, Section Managers, Site Engineers, Technical officers, Supervisors, Safety Manager, Safety officers.



Figure 5.4.5 Awareness on implementing safeguard activities Road B 429 section RMC SP-01 Package.



Figure 5.4.6 Awareness on Proper handling and maintenance of disposal and stock yards, Road B 248 section RMC SP-01 Package.



Figure 5.4.7 Awareness on proper following of COVID-19 preventing guidelines Road A-11 (Ch.5+280) RMC -03 Package



Figure 5.4.8 Awareness on implementing environmental and safety safeguard activities Road A 11. (Ch.5+750) RMC -03 Package

5.5 Tree removing and tree planting program

Tree removing for road construction work was minimized as possible during the reporting period. This was highly emphasized by Team leader and Project Directors at the monthly progress review meetings. Systematic tree removing process has been practiced in RMC as follows.

- After demarcating ROW of the road according to the road design, ESO of contractor will prepare a list of trees to be removed.
- This tree list will be sent to RE with copy to the PD/PE by the contractor.
- Joint inspection conducted with representative of PIU, MC and contractor representing environmental safeguards officer, Site Engineers and finalized the list.
- This finalized list will be presented at monthly progress reviewed meeting. After finalizing list, it will be sent to relevant Divisional Secretary (DS).
- DS will clarify the information from relevant “Grama Niladhari” and after that, approval will be granted.

Removed trees belong to government land are handed over to State Timber Corporation and trees belong to private lands are handed over to the owner through relevant Grama Niladhari.

- Comparatively a greater number of trees to be removed under RMC SP-01 package due to road safety and drainage issues.

Table 5.5.1 The Summary of Tree removing and Tree planting RMC SP-01

Road Section	Tree Removing		Tree Planting		No. of saved Trees	Planting location		Remarks
	Total No. of trees to be removed	No. of trees removed	Total No. of plants to be planted	No. of plants planted		Identified	To be identified	
B 248 (0+000 - 5+000)	303	149	447	0	22	√		
B 454	18	6	18	55		√		
B 303	394	233	699	22	63	√		
B 139	376	142	426	40		√		
B 129	1	1	3	-		√		
B 429	614	146	438	40	65	√		
Total	1706	677	2031	157	150			

Table 5.5.2 The Summary of Tree removing and Tree planting RMC -03

Road Section	Tree Removing		Tree Planting		No. of saved Trees	Planting location		Remarks
	Total No. of trees to be removed	No. of trees removed	Total No. of plants to be planted	No. of plants planted		Identified	To be identified	
0-5km	27	23	69	200	*	√		Additional 280 trees planted in borrow pit areas for rehabilitation the lands
5-10km	18	-	-			√		
15-20km	16	-	-			√		
20-25km	13	13	39			√		
10-15km	09	02	06			√		
Total	82	38	114	200	*			

* Considerable number of trees have been saved by reducing the maximum tree removing offset up to 5m limit.

Photographs of Tree Planting Program:



Figure 5.5.1 Tree Planting program at Udagama Secondary School.(RMC SP-01 Package)



Figure 5.5.2 The Kumbuk tree (*Terminalia arjuna*) planted by school prefects of Gonadeniya Vidyalaya. (RMC SP-01 Package)



Figure 5.5.3 Pre-arrangement of tree planting program at Gonadeniya Vidyalaya. (RMC SP-01 Package)



Figure 5.5.4 Participants of the tree planting program at Gonadeniya Vidyalaya. (RMC SP-01 Package)



Figure 5.5.5 During Tree Planting Program at Udugama secondary school SGRS planted Dawata tree. (*Carallia brachiata*) (RMC SP-01 Package)



Figure 5.5.6 Tree Planting program at Urala playground (RMC SP-01 Package) Planted Kumbuk trees. (*Terminalia arjuna*)



Figure 5.5.7 Kumbuk tree (*Terminalia arjuna*) planted by Environmental pioneers of Rahula Vidyalaya. (RMC-03 Package)



Figure 5.5.8 Kumbuk tree (*Terminalia arjuna*) planted by ES with Environmental pioneers of Rahula Vidyalaya. (RMC-03 Package)



Figure 5.5.9 Tree Planting program at Rahula Vidyalaya. (RMC-03 Package)



Figure 5.5.10 Participants of the Tree planting program at Rahula Vidyalaya. (RMC-03 Package)



Figure 5.5.11 Coconut trees (Cocos nucifera) planted at Horiwila burrow pit area. (RMC-03 Package)



Figure 5.5.12 Karanda trees (Milletia pinnata) Planted at Mahadiulwewa burrow pit area. (RMC-03 Package)

6 Public consultations and information dissemination

Awareness meetings are being conducted on all roads where improvement and rehabilitation to be done together with GRC formation meeting with participation of PIU, MC and contractors' staff before any physical works started. Information of contraction activities, social and environmental safeguards requirements of the project, GRM process and community participation in projects activities are explained at these meetings There were interactive meeting where public also actively participated.

In addition to the awareness meetings conducted. Public information notices developed in local languages are being displayed at common places in the project area. The main purpose of this notice is to create awareness among communities on the project, understand what extent the community can involve in the project activities and how to make complaints, suggestions and requests to the project authorities. Public information notice brings the key information about the project and contact numbers of relevant officers of the project whom to be contacted regarding social and environment relevant issues.

Details of the, 05 contact persons who are designated to submit complaint within PIU & MC are also included in the notice as.

<u>MC</u>	<u>PIU</u>
<ul style="list-style-type: none"> ▪ Environment Specialist. ▪ Social/Gender/Resettlement Specialist. 	<ul style="list-style-type: none"> ▪ Project Engineer. ▪ Environment Safeguard Officer. ▪ Social Safeguard Officer.

Complaint/Suggestion and Request Boxes at the work sites are identified as one of the effective methods to share views of public in Design Stage and Construction stage.

7 Health and Safety Issues Observed and the status of their compliances

7.1 COVID -19 Pandemic Disease

World Health Organization (WHO) defines Coronaviruses as a large family of viruses which may cause illness in animals or humans. In humans, several coronaviruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The most recently discovered coronavirus causes coronavirus disease COVID-19.

COVID – 19 Virus was first discovered in the City of Wuhan, China in December 2019 and it quickly spread across the whole world causing severe damage to lives and economies of almost every country it touched.

7.2 Identification of the Risks

Some Covid-19 risks associated with our worksites includes, but not limited to, the following;

- ✓ Practical difficulties in maintaining safe gaps between people due to the nature of work.
- ✓ A significant number in the workforce use public transport, to and from work.
- ✓ Complacency among workers, leading to some of them ignoring health messages.
- ✓ Anxiety among people to return to work.
- ✓ Anxiety among residents to have people from different parts of the country working close to where they live.
- ✓ The staff, especially road workers, are scattered at work sites located over a long length, hence can be exposed to third parties, including residents shop keepers etc.
- ✓ Many outside suppliers involved with the work and it is possible for some of them carry the virus.
- ✓ The Preparedness and Response Plan is an important tool in this backdrop.

7.3 Preparedness and Response plan

Project Manager together with the two Contractors have been working on putting together 'Covid-19 Preparedness and Response Plan' for each site.

The plan has been prepared in accordance with the following Guidelines issued by the Government of Sri Lanka;

- Operational Guidelines on' Preparedness and Response for Covid-19 Outbreak for Work Settings'. (Refer:<http://www.epid.gov.lk/web/>)
- "Guidelines for Covid-19 Preparedness for Workplaces" issued by the Directorate of Environmental Health, Occupational Health and Food Safety, the Ministry of Health and Indigenous Medical Services, Sri Lanka.

This Plan is important to;

- ✓ Ensure all the important aspects in countering the threat of the transmission of the Virus have been considered, and
- ✓ Demonstrate that the Project Team as a group has taken this matter seriously and taking all necessary actions to address any potential risks.

7.4 Composition of the Plan

This Plan covers following office premises and associated work locations including work sites, laboratories, pre-cast yards etc.;

Project Manager Offices:

- ✓ Team Leader's Office located at Madiwela, Kotte. (Colombo District)
- ✓ Resident Engineer's Office, RMC03 Contract, Ganewalpola. (Anuradhapura District)
- ✓ Resident Engineer's Office, SP01 Contract, Urala, Wanduramba. (Galle District)

Contractor Work Offices:

- ✓ Road Manager Office, RMC03 Contract, Maradankadawla. (Anuradhapura District)
- ✓ Road Manager's Office, SP01 Contract, Urala, Wanduramba. (Galle District)

7.5 Identification of site-specific risks and preparation of Site-Specific Action Plans

A staff member from each office has been nominated to prepare the Action Plan and monitor the implementation of it. Social Development Assistant and Environmental Assistant in each RE's office have already been nominated for this role from the Project Manager's side. Contractors have nominated their Social Officer or Environmental Officers or both.

These Officers will be called coordinators and will directly report their respective RE or RM on matters related to the preparation and implementation of the plan. The Covid-19 Preparedness and Response Action Plans prepared by the above teams.

Sample covid-19 Preparedness and Response plan attached as Annexure III.

7.6 Implementation of the plan

Following actions have already been taken by the Resident Engineers and Contractors;

- Provide hand washing facilities and make sure those are kept clean, properly stock and in good working order.
- All employees are instructed to wear face masks.
- Body temperature of the employees are measured daily basis. If any employee is found sick or showing signs of sickness, shall be immediately isolated and direct for medical assistance.
- Avoid close contact with anyone and practice 1.0 m distance in office arrangements and during construction works.
- Disinfecting the workplace regularly to keep the workplace clean and hygienic.
- Provide PPE such as gloves, goggles, face masks to the employees and they are encouraged to wear them.
- Restrict large gatherings and essential meetings are held with minimal no of attendees and keeping 1m distance.
- Tool box meetings are conducted in weekly basis in small groups maintaining a safe distance.
- Visitor management system has been implemented. Security awareness and visitor's awareness guidelines have been displayed at Project Office Complex.

Awarenesses conducted for Covid-19



Figure 7.6.1 Awareness conducted by RE regarding COVID-19-RE office staff and Contractor's staff-RMC-SP-1Package.



Figure 7.6.2 Awareness conducted by PHI regarding COVID-19 for site staff and workers RMC SP-01 Package.



Figure 7.6.3 Awareness conducted ES regarding COVID-19-RE office staff RMC-03 Package.



Figure 7.6.4 Awareness conducted by PHI regarding COVID-19 for site staff and workers-RMC-03 Package.

Posters Prepared Relevant to Preventing of COVID-19



Figure 7.6.5 & Figure 7.6.6 Posters/Leaflet Demonstrated and Distributed Relevant to Preventing of COVID-19.RMC-SP-01 Package



Figure 7.6.7 Notices displayed in office premises, RMC SP-01 Package.



Figure 7.6.8 Notices displayed in office premises for visitors, RMC SP-01 Package.

Preventive Measures Implemented to avoid the risk for COVID-19.



Figure 7.6.9 PHI visit to the contractor's office, RMC-03 Package.



Figure 7.6.10 Visitors resting area in contractor's office, RMC SP-01 Package.



Figure 7.6.11 Provided Handwashing facilities. (RE office) RMC SP-01 Package.



Figure 7.6.12 Provided Handwashing facilities. (Contractor's office) RMC SP-01 Package.



Figure 7.6.13 Provided Handwashing facilities.
(RE Office) RMC- 03 Package.



Figure 7.6.14 Provided Handwashing facilities.
(Contractor's office) RMC -03 Package.



Figure 7.6.15 Weekly disinfection process on
contractor's office RMC SP-01 Package.



Figure 7.6.16 Weekly disinfection process on RE
office RMC -03 Package.



Figure 7.6.17 Daily temperature checking at office
premises RMC-03 Package.



Figure 7.6.18 Daily temperature checking at site
office premises RMC SP-01 Package.



Figure 7.6.19 Sterilization the documents before taking in to the office RMC SP-01 Package.



Figure 7.6.20 Sterilization the documents before taking in to the office RMC SP-01 Package.



Figure 7.6.21 Provided isolation room RMC SP-01 Package.



Figure 7.6.22 Maintaining a visitor details book at the main gate RMC SP-01 Package.

7.7 Safety Reports and notification of Accidents

According to the contract agreement the contractors request to submit project health and safety plan and a Summary report submit as a part of the monthly progress report. Sample of the report attached with Annexure V.

8 Conclusion and Recommendations

8.1 Conclusions

1. The report deliberates the measures taken by the Project Implementation Unit (PIU), Monitoring Consultants (MC) and contractors for compliance with Environmental Safeguard requirements as per the loan documents and other relevant documents related to environmental safeguards such as Loan agreement, FAM, EARF, IEE and Environmental checklists.
2. Compliance with the environmental safeguard requirements of the project is at a high level due to the commitment of the staff, Site Engineers (SE), and Environmental Officers (EO) and the guidance and advice given by the staff of the PIU and MC.
3. Guidance and assistance given by the ESDD of RDA and Safeguard Specialist of ADB Resident Mission is highly contributed to improve the environmental safeguards of the project as well as to comply with the environmental safeguard requirements.
4. The environmental and social team (ESO and SSO) attached to PIU cooperated with MC and contractor's staff for the implementation of the safeguard's requirements of the project.
5. The attitudes and commitments of the engineering field staff highly assisted in the implementation of safeguard requirements of the project successfully.

8.2 Recommendations

Following recommendations are proposed to improve the environment safeguard compliances of the iRoad RMC program.

1. To conduct more workshops/training programs on experience sharing sessions among the staff of the contractor, PIU and MC on environmental safeguard requirements.
2. Online Site-Specific Environmental Monitoring System shall be introduced.
3. A mechanism to reduce the frequent changing of key staff and others with the project completion.
4. Due to the high turnover of Technical Staff (of Employer, Consultant, and Contractors) Training Programs about Safeguard Component of the iRoad program must be carried out to every new batch of recruits as and when necessary to ensure safeguard standards of iRoad program.
5. Proper COVID-19 preventive measures monitoring system shall be introduced within the site premises.

Annexure: I

License and Approvals.

RMC SP-01- Plant license approvals and their status as at 31 of December.

Section	Owner/ Supplier	EPL		TL		IML	
		From	To	From	To	From	To
Crusher	K.D.A. Weerasinghe & Co. PVT Ltd. (Elpitiya)	In progress	In Progress	01/01/2020	31/12/2020	N/A	N/A
	K.D.A. Weerasinghe & Co. PVT Ltd (Batapola)	Applied for the renewal	Applied for the renewal	14/08/2020	31/12/2020	N/A	N/A
	WKK (Naboda)	25/05/2020	24/05/2021	01/01/2020	31/12/2020	N/A	N/A
Quarry	K.D.A. Weerasinghe & Co. PVT Ltd. (Elpitiya)	29/07/2020	07/01/2021	01/01/2020	31/12/2020	24/08/2020	23/08/2021
	K.D.A. Weerasinghe & Co. PVT Ltd. (Batapoala)	09/07/2020	09/06/2021	14/08/2020	31/12/2020	08/11/2020	31/12/2020
	Navodhya metal (Elpitiya)	Applied for the renewal	Applied for the renewal	01/08/2020	31/12/2020	05/06/2020	05/05/2021
Burrow pit	Mr. Kamal Pathmasiri (Yatalamaththa)	N/A	N/A	N/A	N/A	11/12/2020	02/11/2021
	K.D.A. Weerasinghe & Co. PVT Ltd (Welideniya Estate)	18/12/2019	18/12/2020	N/A	N/A	Applied for the renewal	Applied for the renewal
Asphalt plant	K.D.A. Weerasinghe & Co. PVT Ltd. (Kurunegala)	24/01/2020	23/01/2021	24/01/2020	31/12/2020	N/A	N/A
	K.D.A. Weerasinghe & Co. PVT Ltd. (Batapola)	Applied for the renewal	Applied for the renewal	26/02/2020	31/12/2020	N/A	N/A
Batching Plant	K.D.A. Weerasinghe & Co. PVT Ltd. (Wanduraba)	In progress	In Progress	15/06/2020	31/12/2020	N/A	N/A
	K.D.A. Weerasinghe & Co. PVT Ltd. (Karandeniya)	Applied for the renewal	Applied for the renewal	22/09/2020	31/12/2020	N/A	N/A

RMC SP-01 Summary of Temporary use lands.

Road No.	Road Section	Type of yards	No. of Approved Yards
B 248	Thalagaha to Wanduramba from 1+950 to 6+950	Sub base	3
		ABC	5
		Disposal Yards	5
B 429	Udugama Bus Stand to Hiniduma 0+000 to 5+000	Sub base	1
		Disposal Yards	8
B 303	Nagoda to Gonadeniya 0+000 to 3+600	Sub base	3
		ABC	1
		Embankment	4
		Disposal Yards	8
B 139	Gonadeniya to Udugama Bar Junction 0+000 to 4+400	ABC	1
		Sub base	2
		Embankment	2
		Disposal Yards	9
B 129	Udugama Bar Junction to Udugama Bus Stand 32+200 to 35+000	ABC	1
		Embankment	1
		Disposal Yards	0

RMC-03 Plant license approvals and their status as at 31 of December.

Section	Owner/ Supplier	EPL		TL		IML	
		From	To	From	To	From	To
Quarry	CEC Metal Quarry Kadahapola	21/5/2020	20/5/2021	12/2/2020	31/12/2020	29/1/2020	5/12/2020
	CEC Metal Quarry Madawachchiya	09/12/2019	08/12/2020	20/02/2020	31/12/2020	30/12/2020	29/12/2020
Crusher	CEC Metal Crusher Kadahapola	21/5/2020	20/5/2021	12/2/2020	31/12/2020	NA	NA
	CEC Metal Crusher Madawachchiya	NA	NA	10/03/2020	31/12/2020	NA	NA
Borrow Pits	CEC borrow pit Horiwila	16/09/2020	15/09/2021	NA	NA	28/9/2020	27/01/2021
Asphalt Plant	CEC Asphalt Plant Kadahapola	21/5/2020	20/5/2021	12/2/2020	31/12/2020	NA	NA
	CEC Asphalt Plant Madawachchiya	23/01/2020	22/01/2021	10/03/2020	31/12/2020	NA	NA
Concrete Batching Plant	CEC Concrete Plant Madawachchiya	15/10/2020	14/10/2021	12/2/2020	31/12/2020	NA	NA

RMC 03 Summary of Temporary use lands.

Road Section	Type of yards	No. of Yards
CH: 00+000 – 05+000	Disposal yards	03
	Sub base	01
	Embankment	01
	ABC	01
CH: 05+000 – 10+000	Disposal yards	02
	Sub base	01
	Embankment	01
	ABC	01
CH: 10+000 – 15+000	Disposal yards	01
	Sub base	06
	Embankment	2
	ABC	2
CH: 15+000 – 20+000	Disposal yards	1
	Sub base	03
	Embankment	1
CH: 20+000 – 25+000	Disposal yards	1
	Sub base	12
	Embankment	01
	ABC	01

Annexures: II

Sample of Monthly Environmental Progress Report.

Monthly Environmental Compliance Report.

MONTH OF DECEMBER 2020.

1. Summary of weather condition

Weather Condition		
Dry (No. of Days)	Wet (No.of Days)	
	Rain (1-10 mm)	Heavy Rain (>10mm)
16	1	14

Total rainfall received in month of December 550 mm

2. Environmental issues and mitigatory measure or action taken at site. Mark status as (✓) appropriately during th

Road Section	Environmental issue	Not complied	Partly complied	complied	Mitigatory Measure
	Soil erosion at the disposal yards			✓	(Protection wall has been constructed for preventing soil erosion at 6+200 LHS,15+900RHS,11+120RHS,14+410 RHS,12+098 LHS)
	Disturbance to flora & fauna			✓	Actions has been taken to minimize the damage to flora & fauna
	Dust emission			✓	frequently watering from bowser
	Drainage and inundation			✓	Periodically drainage cleaning
	Garbage management			✓	Separated waste have been handed over to the pradeshiya sabha - Kekirawa

3. Environmental Management Action Plan (EMAP) status. Mark status as (✓) appropriately and insert the date of report submitted.

EMAP		SSEMAP			
Approved /Date	Not Approved	Road Section	Submitted Date	Approved date	Remarks
08/01/2020		0-5km	02/11/2019(Revision 1)	26/11/2019	-
		20-25KM	28/11/2019	26/12/2019	
		All Road Section	28/11/2019	08/01/2020	
		10-15km	31/7/2020	31/08/2020	

4. Environmental Monitoring Checklists (EMC) status. Mark status as (✓) appropriately and insert the date of Report submitted.

Road Section 0-5km	Construction stage, % completed								Post construc tion stage
	Submission date	Approved date	Submission date	Approved date	Submissio n date	Approved date	Submission date	Approved date	
	Pre-Construction stage		Construction stage at 25%		Construction stage at 50%		Construction stage at 75%		
0-5km	25/07/2019	15/10/2019	28/11/2019	03/03/2020	28/02/2020	28/05/2020	31/07/2020	31/08/2020	
05-10km	28/11/2019	18/12/2019	Not yet started						
10-15KM	28/11/2019	18/12/2019	Not yet started						
15-20KM	28/11/2019	18/12/2019	Not yet started						
20-25KM	16/09/2019	15/10/2019	28/02/2020	28/05/2020	31/07/2020	31/08/2020	03/11/2020	14/12/2020	

5. Base line value Monitoring

Road Section	Parameter	Base line	Monitoring		Mitigatory Measures
			Partly complied	complied	
0-25km	Surface water quality measurements	✓	✓	-	Base line survey has been done by IEE
	Ground water quality measurements	✓	✓	-	
	Air quality measurements	✓	✓	-	
	Noise level measurements	✓	✓	-	
	Vibration measurements	✓	✓	-	

6. Tree removal and tree planting activity.

Road Section	Plants removing		No of balance plants to be removed	Tree Planting		
	Total no plants to be removed	No of plants removed		Total No. of plants to be planted	No. of planted plants (according to the 1:3 ratio)	Additionally, planted plants
0-5km	27	23	4	81	200 Tree planting program was done on 23 January 2020 at maradankadawala school premises collaboration with school children and CEA staff no.of plants planted 200	20 Karadha trees were planted at burrow pit area in Mahadiulwewa
5-10km	18	-	18	54		260 Coconut plants were planted at burrow pit area in Horiwila
15-20km	16	-	16	48		200 Mahogani plants have been handed over to the Central Environmental Authority as a donation
20-25km	13	13	-	39		
10-15km	09	2	7	27		
Total	83	38	45	249	200	480

7. License and approvals

Section	Name of the source	EPL		TL		IML		Remark
		From	To	From	To	From	To	
Crusher	Kadahapola	1/07/2020	30/06/2021	12/02/2020	31/12/2020	N/A	N/A	-
	Madawachchiya	18/10/2019	17/10/2020	10/03/2020	31/12/2020	N/A	N/A	EPL Renewal processing
Quarry	Kadahapola	1/07/2020	30/06/2021	12/02/2020	31/12/2020	27/01/2020	25/12/2020	-
	Madawachchiya	09/12/2019	08/12/2020	20/02/2020	31/12/2020	30/12/2020	29/12/2021	EPL Renewal processing
Burrow pit	Horiwila	16/09/2020	15/09/2021	N/A	N/A	28/9/2020	27/01/2021	-
Asphalt plant	Kadahapola	21/06/2020	20/05/2021	12/02/2020	31/12/2020	N/A	N/A	-
	Madawachchiya	23/01/2020	22/01/2021	10/03/2020	31/12/2020	N/A	N/A	-
Batching Plant	Madawachchiya	15/10/2020	14/10/2021	12/02/2020	31/12/2020	N/A	N/A	-

7.1 Materials supply for the project

Type of materials	Details of the source							Road details				
	Name	location	Capacity		Approvals			Total Roads requirement	Material at site available up to November		Balance requirement	
			Unit	Qty	CE A	GSM B	TL		Unit	Qty	Unit	Qty
Barrow materials	CEC Barrow pit	Horiwila	Cube	35,000	✓	✓	✓	19500	Cube	10580	Cube	8920
Quarry materials	CEC Metal quarry	Kadahapola	cube	50,000	✓	✓	✓	2000	Cube	550	Cube	1450
	CEC Metal quarry	Madawachchiya	cube	50,000	✓	✓	✓					
Asphalts	CEC Asphalt	Kadahapola	Tons	640/day	✓	NA	✓	38500	Ton		Ton	18450

	CEC Asphalt	Medawachchiya	Tons	640/day	✓	NA	✓			20050		
Concrete	CEC Concrete plant	Madawachchiya	Cu.m	180/day	✓	NA	✓	4600	Cu.m	1800	Cu.m	2800
ABC	CEC Metal Crusher	Kadahapola a	Cu.m	100/day	✓	NA	✓	26500	Cube	11200	Cube	15300
	CEC Metal Crusher	Madawachchiya	Cu.m	100/day	✓	NA	✓					

7.2 Requirements of Stock Yards

Road Section	Details of yards				Road requirement		Approval and other requirements					
	Name of the owner	Location	Capacity				Owne r	Eng	GN	DS	LA	Restore Plan
0-25km	K.B.T.Thilakarathna	1+480 RHS	m ³	6000	m ³	24,055 Burrow material	✓	✓	✓	✓	✓	✓
	Y.M.Hafeel Marikkar	6+200 LHS	m ³	6500			✓	✓	✓	✓	✓	✓
	A.R.Abdul Sathar	11+120 RHS	m ³	5000			✓	✓	✓	✓	✓	✓
	P.B.Elaluhani	15+900 RHS	m ³	6000			✓	✓	✓	✓	✓	✓
	H.M.D.Manike	20+740 RHS	m ³	6000	m ³	10,500 ABC material	✓	✓ ✓	✓	✓	✓	✓
	P.M.Shiromi Manjula	20+800 LHS	m ³	4500			✓	✓	✓	✓	✓	✓
	B.S.K.Balasooriya	21+050 LHS	m ³	4000			✓	✓	✓	✓	✓	✓
	ABC stock yard	12+098LHS	m ³	5000			✓	✓	✓	✓	✓	✓

	Soil stock yard	14+410 RHS	m ³	3000			✓	✓	✓	✓	✓	✓
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7.3 Requirements of Disposal/Dumping Yards

Road Section	Details of yards				Road requirement		Approval and other requirements					
	Name of the owner	Location	Capacity				Owner	En g	G N	DS	LA	Restore Plan
0-25km	W.M.Darmadasa	1+500 RHS	m³	3000	m³	10800	✓	✓	✓	✓	✓	✓
	M.Karunawathi	13+080 LHS	m³	250			✓	✓	✓	✓	✓	✓
	Principle –Galapitagala school	13+120RHS	m³	2500			✓	✓	✓	✓	✓	✓
	K.Ranbanda	16+230 LHS	m³	3000			✓	✓	✓	✓	✓	✓
	R.Sumanawathi	16+230 LHS	m³	3000			✓	✓	✓	✓	✓	✓
	A.Merinona	20+120 RHS	m³	31450			✓	✓	✓	✓	✓	✓
	R.M.Wimalasiri	20+160 LHS	m³	200			✓	✓	✓	✓	✓	✓
	L.Punchimanika	21+500 LHS	m³	250			✓	✓	✓	✓	✓	✓

	K.G.Shiromika	21+440 LHS	m ³	800			✓	✓	✓	✓	✓	✓
	Meraya Rajapaksha	14+410 RHS	m ³	3000			✓	✓	✓	✓	✓	✓

8. Compliance to the EMP/SEMAP

Environmental impact observed/ recorded	Applicable Road section	Mitigation measure/s adopted	Mitigation measure/s recommended in the EMP/SEMAP	Effectiveness	Recommendations proposed	Photos
Excavated Material and unsuitable debris.	0-5km 10-15km 20-25km 15-20km	Top soil has been stocked at 6+200 LHS and 20+740 RHS for using turving and rehabilitation work and other unsuitable debris send to the aproned disposal yard only	Unsuitable debris material and removed pavements of roads send to the approved disposal locations only.	Disposal location have been selected away from water bodies and resettlement area and approvals were obtained from relevant authorities	Abandon borrow pits are used as disposal yards.	-

12. Awareness on Environmental compliances (No of tool box meeting)

Awareness on Environment, Health and Safety			Cumulative tool box meetings
No of tool box meetings	Target audience	No. of participants	
5	Office staff , Site workers and driver operator	210	52

Photographs:

Safety arrangement for culvert workers



Figure 1, 20/2 culvert



Figure 2, 19/2 culvert

GRC Meetings were held regarding lead-away issues



Figure 3

GRC meetings have been organized on 15th December 2020 for lead-away issues at 20/2 culvert



Figure 4

GRC meetings have been organized on 30th December 2020 for lead-away issues 9/3 culvert

Preventing inundation Issues



Figure 7

Inundation issues has been rectified at 20+820LHS



Figure 8

Inundation issues has been rectified at 11+120 RHS

Annexures: III

Sample of Covid-19 Preparedness Plan.

Table No.01: COVID-19 Preparedness Measures implemented at RMC-SP1 Project.

No	Actions to reduce the risk level	Participants/ Locations	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
01	Noticed awareness posters regarding transmission, signs and symptoms of COVID-19	RMC-SP1 Project Office Complex	2020/03/17	✓		Still noticed since the execution
02	Conducted an awareness session by the Public Health Instructors-Wanduraba	KDAW-YCIH JV staff, Engineer's office staff, Drivers, Operators and Labours	2020/04/19	✓		
03	Awareness session by the Road Manager regarding 'Guidelines on COVID-19 preparedness for workplace' provided by Ministry of Health and Indigenous Medical Services of Sri Lanka	KDAW-YCIH JV staff, Drivers, Operators and Labours	2020/04/19 & 2020/10/05	✓		Special awareness session was conducted at RMC office complex due to the alarming situation raised.
04	Promote good hygiene practices Ex: display hand hygiene posters	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/22	✓		Still practiced since the execution
05	Educate and train all workers on COVID-19 infection, risk factors and protective behaviors	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/21	✓		Still practiced at safety tool box meetings since the execution
06	Instructions of the Public Health Inspectors of Nagoda Pradheshiya Sabha were received for the arrangements of the offices	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/22	✓		Arrangement was already done at office and time to time inspections were done by PHI
07	Decisions taken to restrict the people and vehicles coming from risky areas for the current Project Activities	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		Still practiced
08	Prepared and distributed a leaflet among the workers regarding preventive measures of COVID-19	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/05/02	✓		

No	Actions to reduce the risk level	Participants/ Locations	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
09	All workers and staff members are encouraged to read, understand and sign to confirm they have read and understood the 'Guidelines on Covid-19 Preparedness'	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/05/02	✓		
10	Restrain staff officers and workers coming to the work, who have contacts with the patients having Covid-19 and people showing Covid-19 symptoms.	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/10/04	✓		Risk level has been increased during the second wave and therefore this action was taken.

Table No.02: COVID-19 Prevention and Control Measures implemented at RMC-SP1 Project

No	Actions to reduce the risk level	Location	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
01	Provide hand washing facilities and make sure those are keep clean, properly stock and in good working order.	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/21	✓		Still practiced since the execution
02	Provide standard hand sanitizer and tissues	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/21	✓		
03	All employees are instructed to wear face masks	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		
04	Body temperature of the employees are measured daily basis. If any employee is found sick or showing signs of sickness, shall be immediately isolated and direct for medical assistance	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/24	✓		

No	Actions to reduce the risk level	Location	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
05	Avoid close contact with anyone and practice 1.0 m distance in office arrangements and during construction works	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads, Construction Sites	2020/04/22	✓		
07	Disinfecting the workplace regularly to keep the workplace clean and hygienic	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/22	✓		Still practiced since the execution
08	Document sterilization before taking in to the office (heat at 700C for 1 hour).	RMC-SP1 Project Office Complex	2020/05/02	✓		
09	Maintain regular housekeeping practices, disinfecting of surfaces, equipment, and other items in the workplace	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		
10	Provide PPE such as gloves, goggles, face masks to the employees and they are encouraged to wear them	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads, Construction Sites	2020/04/20	✓		
11	Encourage workers for safe use of PPE; • Instructed to change facemasks twice a day • Instructed to wash and disinfect PPE on daily basis • Sanitize underneath of shoes before entering to	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303 B139 Roads, Construction Sites	2020/04/20	✓		

No	Actions to reduce the risk level	Location	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
	the office to prevent contamination • Instructed to wear clothes which covers the entire body					
12	Restrict large gatherings and essential meetings to be held with minimal no of attendees and keeping 1 m distance. Tool box meetings shall be conducted in weekly basis in small groups maintaining a safe distance.	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		Still practiced since the execution
13	If someone becomes ill with respiratory symptoms at work, arrange the person for medical treatment. Instructed to Employees who are suffering from respiratory illness to stay home;	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads, Construction Sites		✓		Still practiced
14	Different modes of working such E-mails, teleconferencing are used to work with the employees at critical areas	RMC-SP1 Project Office Complex at Urala	2020/03/19	✓		Still practiced since the execution
15	Document sterilization before taking in to the office (heat at 70°C for 1 hour)	RMC-SP1 Project Office Complex at Urala	2020/05/02	✓		
16	Lunch breaks are taken in batch-wise to prevent crowding in dining area and chairs were arranged keeping 1 m physical distance. Instructed to have lunch and tea breaks on her/ his own reserved tables. Further, encouraged all officers to bring tea in a flask prepared from home.	RMC-SP1 Project Office Complex at Urala	2020/04/20	✓		

No	Actions to reduce the risk level	Location	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
17	Ensure the hygienic use of utensils by advising all the employees to keep a water bottle and a cup at their own custody	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads, Construction Sites	2020/04/20	✓		Still practiced since the execution
18	Disinfecting the labours' and officers' accommodations in every day to keep clean and hygienic with the support of trained team of RMC project labours	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		
19	Disinfect all transportation vehicles coming from Red district and after travelling to Red districts.	RMC-SP1 Project Office Complex at Urala	2020/04/20	✓		
20	Visitor management system has been implemented. Security awareness and visitors awareness guidelines have been displayed at Project Office Complex	RMC-SP1 Project Office Complex at Urala	2020/05/02	✓		
21	All cleaning staff is made aware on correct procedure of waste management and provided with suitable PPE	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads	2020/04/20	✓		
22	Clean and disinfecting the kitchen area regularly to keep as clean and hygienic. Further, workers appointed for kitchen area are provided with all necessary PPE	RMC-SP1 Project Office Complex at Urala and Site Offices at B248. B429, B303, B139 Roads and accommodation s	2020/04/22	✓		

No	Actions to reduce the risk level	Location	Action Executed Date	Status of the Action		Remarks
				Completed	Ongoing	
23	Encourage to obey for following accommodation etiquette; • Parties, intoxication in groups are prohibited • Use of common glassware, cutleries are prohibited • No visitors are allowed to use accommodation	All accommodations of RMC Project	2020/04/20	✓		Still practiced since the execution
24	All workers and staff members were advised not to enter any shop or nearby village house for any requirement to encourage social distancing	RMC-SP1 Project Office Complex at Urala and Site Offices at B248, B429, B303, B139 Roads	2020/04/20	✓		

Annexures: IV
Sample of Monthly Joint Site Inspection
Report.

Report for Joint Site Inspection of Environment, Safety and Social Safeguard Compliances.

Inspection No.04

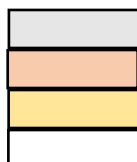
Date: 11 December 2020

Time: 09.00 a.m.

Locations/Road ID: B 303, B 139, B 429 & B 248

Attendees:

No.	Name	Designation	Organization
01.	Mr. Madawa Sirithunga	Project Engineer	RDA
02.	Mr. H.P.T. Sandaruwan	Environmental Officer	RDA
03.	Mr.H.K.B.R Karunarathne	Environmental Specialist	OCG-CEA JV
04.	Mr.Sanjaya Rupasingha	Construction Engineer	OCG-CEA JV
05.	Ms. A.H.Nadeesha	Asst. Social Officer	OCG-CEA JV
06.	Ms. H.G.T.Jayamini	Asst.Environment Officer	OCG-CEA JV
07.	Mr.Manudeepa Walallawita	Section Manager (B 248)	KDAW-YCIH JV
08.	Mr.W.S.Rupasingha	Section Manager (B 429)	KDAW-YCIH JV
09.	Mr.K.H.A.D.Isharaka	Site Engineer (B 139)	KDAW-YCIH JV
10.	Mr.N.P.Samarasingha	Site Engineer (B 429)	KDAW-YCIH JV
11.	Mr.J.P.C.Prashan	Safety Engineer	KDAW-YCIH JV
12.	Mr. A.G.H.Gayan	Environment Officer	KDAW-YCIH JV
13.	Ms.A.L.C.Prarthana	Asst. Social Officer	KDAW-YCIH JV



: 1st inspection
: 2nd Inspection
: 3rd Inspection
: 4th Inspection

Description:

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
B 303 - Nagoda to Gonadeniya Road Section-Environmental Issues						
01	B 303	Ch.0+230 RHS	Poor maintenance of disposal yard	Agreed to maintained 1.5 ft level difference from nearby road and top surface of the fill, gradient outwards from the main road to facilitate storm water flows towards opposite side of the land.	RM/SM/EO (Within one week)	Done
02	B 303	Ch. 0+420 RHS	Unapproved stock yard	Ownership of this land is not clear. Therefore, Contractor agreed to use this land for temporary period and after that remove all stock materials from this land.	RM/SM/EO (Within Two weeks)	Done
03	B 303	Ch.1+630 RHS	Contractor requested PM approval for this location to maintained a stock yard. But, this stock will disturbed the existing drainage canal of the paddy field and headway of the culvert No.2/4. Therefore the yard was rejected.	Contractor agreed to remove all materials from the yard	RM/SM/EO (Within two week)	Done
04	B 303	2+175 RHS	Land owner requested to stock unsuitable soil in his disposal site.	Contractor agreed to stock unsuitable soil after providing consent letter from owner.	RM/SM/EO/S E	Identified with this inspection
B 303 - Nagoda to Gonadeniya Road Section-Social Issues						
01	B303	Ch. 1+850 LHS	Objection of the land owner for the relocate the existing well	Agreed to improve the well using concrete cylinders	RM/SM/EO	Identified with this inspection
B 139 – Gonadeniya to Udugama Bar Junction Road Section- Environmental Issues						
01	B 139	Ch.0+800 to 0+870 LHS	Currently, accepted disposal yard is maintained. A toe wall shall be provided. from Ch. 0+760 to 0+800 (LHS). Contractor requested the Project Manager's acceptance for this location (Ch.0+800-0 +870 LHS) to maintain as a disposal yard.	ES agreed to consider provide approval for this location, after the formation of toe wall for the boundary of the land. Further, he advised to maintain the top level of dump material 1ft below the existing road level.	RM/SM/EO	In progress (Contractor to be requested the PMs approval for the ch. 0+800 to 0+870) to maintained a disposal yard.

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
02	B 139	Ch.2+450 to 2+470 RHS	Stock and disposed material dumped into the yard without maintaining the buffer zone towards the main road.	Agreed to provide a buffer zone for this place	RM/SM/EO (Within one week)	Done
03	B 139	Ch.1+200 LHS	Disposed soil heaped near the pond in the temple premises.	Site Engineer said that "There is an objection from villagers to fill the temple land." Therefore, he agreed to remove disposed soil from this location.	RM/SM/EO/SE (Within one week)	Pending
04	B 139	Ch.2+470 LHS	Soil disposed to a tea cultivation land. ES advised to obtain an approval from the tea inspector.	SSO agreed to obtain an approval letter.	RM/SM/EO/SE	Done
05	B 139	Ch.4+100 LHS	Disposed soil heaped at yard. ES advised to level the soil.	Agreed to level the disposal soil.	RM/SM/EO/SE	Done
06	B 139	Ch.0+375 LHS	Requested to dump unsuitable soil for their garden.	Agreed to give soil after providing toe wall with soil bags. ES advised to submitting relevant approvals for PM approval.	RM/SM/EO/SE	Identified with this inspection
07	B 139	Ch.1+200 LHS	Requested to dump unsuitable soil for temple land according to the request. (Relevant approvals obtained)	Agreed to give soil after providing suitable soil erosion methods nearby wells and canal.	RM/SM/EO/SE	Identified with this inspection
08	B 139	Ch.2+988 RHS	The landowner requested to stock unsuitable soil which was cut from his own land for edge widening and soft ground treatment.	ES advised to give a consent letter from the owner and relevant approvals.	RM/SM/EO/SE	Identified with this inspection
B 139 - Gonadeniya to Udugama Bar Junction Road Section -Social Issues						
01	B139	Ch. 1+826 LHS	Objection of the land owner for orientation of the culvert.	Agreed to submit the drawing.	RM/SM/EO	Identified with this inspection
B 429 – Udugama Bus Stand to Hiniduma Road Section-Environmental Issues						
01	B 429	Ch.0+310 to 0+320 LHS	Some soil quantity was disposed into this location.	Contractor's EO said that they do not use this location as a yard because of maintenance works are costly.	RM/SM/EO	Done

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
02	B 429	Ch.0+336 RHS	There is a Bulu tree to remove for construction activities. But, the soil is loose in this place. After the cutting this tree may be vulnerable to soil slips.	Agreed to protect this tree by raising of drain outer wall if there is a possibility to diversion of concrete drain.	RM/ SM/ EO	Done
03	B 429	Ch.2+470 LHS	Unapproved Soil disposal yard (CEA-OCG/KDAW-YCIH/NCR-019)	Agreed to provide toe wall towards the culvert lead away and "Gin" river to minimize soil erosion.	RM/ SE/SM/EO (Within 2 weeks)	Pending
04	B 429	Ch.1+870 LHS	Unapproved Soil disposal yard (CEA-OCG/KDAW-YCIH/NCR-019)	Agreed to obtained relevant approvals and close the NCR. Agreed to provide a toe wall or bio fence towards the culvert lead away and water canal to minimize soil erosion.	RM,/EO (Within 1 week)	In Progress
05	B 429	Ch.1+950 LHS	Unapproved Soil disposal yard (CEA-OCG/KDAW-YCIH/NCR-017)	Agreed to obtained relevant approvals and close the NCR. Agreed to provide a toe wall or bio fence towards the water canal to minimize soil erosion.	RM/EO (Within 1 week)	In Progress
06	B 429	Ch.3+000 RHS	Unapproved yard	Agreed to submit the obtained approvals for obtaining PM's acceptance.	RM/EO	Pending
07	B 429	Ch.3+100 LHS	In the middle of the yard there are piles of disposed soil.	Agreed to level the piles of disposed soil.	RM/SM/EO	Done
08	B 429	Ch.1+205 LHS	Concrete washouts can be seen through culvert lead away.	Contractor agreed to remove all concrete washouts from this location.	RM/SM/EO (02 days)	Done
09	B 429	Bridge No.9/4 RHS	Soil may be eroded to the adjacent stream in heavy rain.	Agreed to provide soil bags to minimize soil erosion.	RM/SM/EO	Identified with this inspection
B 429 – Udugama Bus Stand to Hiniduma Road Section-Social Issues						
01	B 429	Ch.3+635 LHS	An issue for providing proper access. Temporary access provided. But, it is eroded due to heavy rain.	Agreed to submit the proposal.	RM/SM/SE/SS O	In Progress
02	B 429	Ch. 3+535 LHS	The house has been built adjacent to culvert leadaway (casecade type). The overflow of the existing under capacity leadaway,	Agreed to solve this issue and provide a construction proposal for this location.	RM/SM/SE/SS O	Pending

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
			inundate their house and their garden.			
03	B429	Ch. 2+170 LHS	There was an access providing issue.	Agreed to expedite the reinstate the access.	RM/SM/EO	Identified with this inspection
04	B429	Ch. 4+320 LHS	Request to steps to access a common well.	Agreed to expedite the construct the access.	RM/SM/EO	Identified with this inspection
B 248 – Thalagaha to Wanduramba Road Section – Environmental Issues						
01	B 248	Ch.1+310 RHS	There is a vulnerable Mara tree to be removed.	Agreed to remove two branches (Girth: 800 mm, 1000 mm) and advised not to remove root.	RM/SE/EO	Pending
02	B 248	Ch.2+230 LHS	ES advised to fill remain quantity of disposal yard and obtained no objection letter from owner.	Agreed to fill / level this yard and obtain no objection letter.	RM/SM/EO (Within 2 weeks)	Done (No objection letter to be obtained)
03	B 248	Ch.6+140 RHS	Unapproved boulder dumping yard (CEA-OCG/KDAW-YCIH/NCR-013)	Agreed to remove dumped materials to approved yard.	RM/SM/EO	Done
04	B 248	Ch. 5+170 - 5+175 LHS	Proposed to remove Boo tree in this location. Consent received verbally from some parties who earlier objected to remove this tree.	Due to arising safety issue agreed to remove this tree from this location. {CE (Galle, RDA) and EE(Galle, RDA) agreed to remove this tree and cut unsafe branches of Boo tree on RHS}	RE/ES/SGRS/ RM/EO/SSO	Done
05	B 248	Ch. 5+740 & 5+786 LHS	Disposable soil kept nearby lands.	Agreed to remove all disposable soil from these locations.	RM/SM/EO (Within 1 week)	Done
06	B 248	Throughout the Road	Due to prevailing rain, inundation can be seen some locations and it is driven to mosquito breeding.	Agreed to expedite backfilling process and minimize the inundation.	RM/SM/EO	Done
07	B 248	Ch. 3+440 LHS 3+775 RHS	Disposed soil heaped throughout the yard area.	Agreed to level the yards.	RM/SM/EO	In Progress
08	B 248	2+969 LHS	Disposed soil heaped throughout the stock yard.	Agreed to remove disposal soil from this yards.	RM/SM/EO (within 2 weeks)	Identified with this inspection
09	B 248	5+170 LHS	Disposal soil kept nearby paddy land.	Agreed to remove disposal soil from this land.	RM/SM/EO (Within one week)	Identified with this inspection
B 248 – Thalagaha to Wanduramba Road Section – Social Issues						

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
01	B 248	Ch.2+130 LHS Ch.3+090 RHS Ch.5+270 LHS Ch.5+335 LHS *Througho ut the road (more places similar to this condition)	The access road to the house has been blocked due to the construction.	Agreed to raise the gate its match to improved road level before the road development complete.	RM/SM/SSO	In Progress
02	B 248	Ch.2+190 RHS	Public Request Mr. Richard requested a motorable house access with a suitable gradient, to compensate demolished old access for road improvement.	PE assistance is needed to solve the issue and Contractor agreed to arrange a site inspection with PE.	RM/SM/SSO	Done
03	B248	Ch.5+025 LHS	The critical access of Sanasa Bank.	Agreed to raise the roof by two columns and prepare the access road with the staircase.	RM/SM/SSO	Pending
04	B248	Ch.5+280 LHS	Storm water flowing into the house.	Agreed to lay concrete to mitigate rainwater flowing into the house.	RM/SM/SSO	Pending
05	B248	Ch.6+400 LHS	The critical access of house.	Agreed to turf .	RM/SM/SSO	Pending
06	B248	Ch.6+415 LHS	Discussed for developing a foot path leading to several houses.	Agreed to implement CSR program for this place.	RM/SM/SSO	Done
07	B248	Ch. 2+040- 2+050 RHS	The water in the drain has accumulated.	Agreed to expedite the construction of the drain balance section.	RM/SM/SSO/ EO	Identified with this inspection
08	B248	Ch. 2+040- 2+070 RHS	Request to expedite the reinstate the demolished wall by the land owner during the site inspection.	Agreed to expedite construction.	RM/SM/SSO	Identified with this inspection
09	B248	Ch. 2+090 RHS	Requesting to expedite reconstruct the new well.	Agreed to continue the construction of new well after removing the debris dumped into the well by them.	RM/SM/SSO	Identified with this inspection
Any Other Issues						

N o	Road ID	Location/ Chainage	Description of Issues	Agreed Solution from Inspection	Target Date/ Responsible	Status of Work done according to previous inspection
01	B 248, B 429, B 303, B 139	Througho ut the site	Insufficient safety and traffic management at some construction locations.	Advised to refer RDA traffic and safety manual and arrange site safety and traffic management accordingly.	RM/SM/Safety Engineer	In Progress (Need to be improved)
02	B 248, B 429, B 303, B 139	Througho ut the site	Tree planting program	Agreed to arrange tree planting program	RM/EO	Started. (130 Trees were planted.)
			Contractor proposed to arrange a tree planting program for land owners along the road who donated their lands for road construction.	ES agreed to this proposal and he advised to maintain a monthly checklist for every tree which is planted in private lands.	ES/RM/EO	Identified with this inspection
03	B 248, B 429, B 303, B 139	Througho ut the site	There were some temporary stock piles throughout the roads.	The Contractor agreed to use minimum number of temporary yards and to limit to two weeks time period for use on temporary yards.	RM/SM/EO	Done
04	B 248, B 429, B 303, B 139	Through out the site	Finishing level of disposal yards, higher than the existing road level.	ES advised to maintain the finishing level of disposal yards at least 1ft below than the existing road level.	RM/SM/SE/SS O	Identified with this inspection
05	B 248, B 429, B 303, B 139	Througho ut the site	Issues in house cracks presented as public complaint.	Agreed to inform the insurance company for all identified crack complaint locations.	RM/SSO/EO	In Progress
06	B 248, B 429, B 303, B 139	Througho ut the site	Issues on wells used for domestic purpose. Those wells are damaged/ contaminated/ endangered by road improvement.	Agreed to rehabilitate the wells as per the submitted proposals during construction	RM/SM/SSO	In Progress
07	B 248, B 429, B 303, B 139	Througho ut the site	Take more time period for construction demolished properties	Agreed to expedite the process with road improvements	RM/SM/SSO	In Progress

****Next inspection / meeting scheduled on 12th Tuesday of January 2021**

Annexures: V
Sample of Monthly Health and Safety
Report.

SAFETY MONTHLY REPORT –NOVEMBER 2020

1.0 General

Ensuring the safety of the public and all other personnel directly or indirectly associated with the project is the first and foremost priority of the Contractor. In every aspect, the Contractor is trying its best to avoid, minimize or mitigate the issues related to health, safety and traffic management. This report summarizes the health, safety and traffic management progress of the reported month.

1.1 Submission of Safety and Traffic Management Plan

In accordance with the Clause 5.19 and its sub close 5.19.2 of volume 3 of “Employer’s Requirements”, the Contractor has submitted the necessary Safety and Traffic Management Report to the Engineer.

Details of the submission is tabulated below:

No	Document	Contractor’s Submission		Engineer’s Response		Status
		Letter Ref.	Date	Letter Ref.	Date	
1	Safety and Traffic Management Plan	KDAW-YCIH/RMC-SP1/TL/ENV/19/004	22-Aug-2019	OCG-CEA/RMC-SP1/KDAW-YCIH/19/31	02-Sep-2019	Engineer requested to submit safety and traffic plan separately.
2	Revised Traffic Management Plan (Rev-01)	KDAW-YCIH/RMC-SP1/RE/19/015	23-Sep-2019	RMC-SP1/RE/RM/19/024	05-Oct-2019	Revised according to Engineer’s comments
3	Revised Traffic Management Plan (Rev-02)	KDAW-YCIH/RMC-SP1/RE/19/137	22-Nov-2019	RMC-SP1/RE/RM/19/084	30-Nov-2019	Approved

1.2 Submission of Project Health and Safety Plan (PHSP)

The Project Health and Safety Plan (PH&SP) has been developed incorporating with all industrial health legislation and regulations of Sri Lanka, to ensure the continuous safety measures of the public and all persons directly or indirectly associated with the works. This document includes all the safety precautions to be taken during the road maintenance and development activities related to the project “Rehabilitation and Improvement, Periodic Maintenance and Routing Maintenance Work of 51.7 Km of National Roads in Galle District”.

The details of the submission are tabulated below:

No	Document	Contractor’s Submission		Engineer’s Response		Status
		Letter Ref.	Date	Letter Ref.	Date	
1	Safety and Traffic Management Plan	KDAW-YCIH/RMC-SP1/TL/ENV/19/004	22-Aug-2019	OCG-CEA/RMC-SP1/KDAW-YCIH/19/31	02-Sep-2019	Engineer requested to submit safety and traffic plan separately.

2	Project Health and Safety Plan (Rev-01)	KDAW-YCIH/RMC-SP1/RE/19/014	23-Sep-2019	RMC-SP1/RE/RM/19/030	11-Oct-2019	Revised according to Engineer's comments
3	Project Health and Safety Plan (Rev-02)	KDAW-YCIH/RMC-SP1/RE/19/136	22-Nov-2019	RMC-Sp1/RE/RM/19/084	30-Nov-2019	Approved

2.0 Health, Safety Incidents Reported & Mitigation Measures

The major works being carried out during the reported month includes detailed design works, the routine maintenance works, site clearance including tree cutting, earthworks including embankment construction, roadway excavation, sub base construction. Further, ABC laying and finishing, Prime coat application, Asphalt laying and rock blasting works also proceeded. While considering the construction works of structures, line drains, retaining walls and culverts construction and concrete precast box casting and placing were progressed as usual and bored piling and sheet piling works are also being continuing during the reported month.

The construction works were proceeded effect of 2nd wave of COVID-19 outbreak. As per the previous months, further attention was given on safety of the workers and COVID-19 preparedness and response activities were well implemented.

2.1 Worker's Safety

Accidents are far less likely to happen in workplaces with active and trained workers and by providing necessary health and safety information, instruction, and supervision to employees. Employees also have responsibility to take reasonable care for their own health and safety and others. Incidents recording extend to all workers/staff working for labour gangs and on rented vehicles/machinery. No any accidents were reported during the Month of November.

No. of accidents		
Minor	Major (fatal)	Action Taken
-	-	-

In every aspect, the Contractor is trying its best to avoid, minimize or mitigate the issues related to health, safety and traffic management and toolbox meetings were conducted as one of the events for that.

No. of tool box meetings	Target audience	No. of participants
10	Workers, machine operators and the supervisory staff	>150

2.2 Public/Traffic Safety Incidents.

The details of the public/traffic safety incidents, are tabulated in below table and there is no any incident recorded during reported month.

No.	Date and Time	Road Section	Location	Details of Incident	Proposed Measures to Mitigate Future Incidents	Status
-	-	-	-	-	-	-

2.3 Incidents Due to Traffic Management Non-Compliance

During the reported month, no any incidents of traffic management non-compliance was reported.

Number	Date of Issued	Road ID	Location	Description	Corrective Action	Status
—	—	—	—	—	—	—

2.4 Safety Analysis and Aspect

Road No.	Road Section	Date	Location	Nature of the safety condition	Mitigation Action
B248	Thalagaha to Wanduramba	08/11/2020	CH 5+167 LHS	Deep excavation due to uprooting of boo tree	Required sign boards and hard barricade were established
B248, B303, B139, B429	All 4 Road Sections	Frequently during the month	Constructio n ongoing locations	Unsafe condition due to dust emission	Frequently spaying of water
-	-	12/11/2020	RMC Main Yard	Covid-19 preparedness during salary distribution for labours	Maintained minimum 1.5 m physical distance with all other hygiene practices
B248, B303, B139, B429	All 4 Road Sections	Time to time during the month	Required Locations	Demarcation of unsafe locations	Demarcated the locations by barricading
B248	Thalagaha to Wanduramba	12/11/2020	CH 10+200 – CH 10+450	Limit the speed through the byroad at 16/7 Bridge	Prepared two road humps
B248, B303, B429	All 3 Road Sections	Periodically during the month	Required Locations	Appearing of potholes	Repaired the potholes using ABC & Asphalt as appropriate
B248	Thalagaha to Wanduramba	30/11/2020	CH 10+200 – CH 10+450	Awareness for the road users regarding ongoing Bridge construction	Implemented required traffic control devices

3.0 Proactive Measures Taken to Ensure Health, Safety and Traffic Management Compliance

Health and safety of workforce and general public is enhanced by identifying risk and implementing control provisions before an incident occur. Until now, following measures have been undertaken to ensure compliance.

- All the newly employed staff and labour were given HSE inductions so that they should be aware of potential risks associated with the construction sites, emergency procedures.
- Workers have been provided with necessary Personal Protective Equipment (PPE).
- Safety Trainings (tool box meetings) are conducted on regular basis to train the workers regarding the safety issues.

- All possible unsafe locations (river bank, culvert banks, edges with steep slope, etc) are identified and demarcated, the areas have been barricaded.
- Waste generated from offices and sites are disposed properly.
- In order to provide better health facilities and deal with incidents at site, Contractor has furnished first aid box at the site.
- Staff and labors working at sites are instructed not to disposed litter on site. They are instructed to dispose wrapping papers, empty bottles, cans, left foods, and any other disposable material only at the identified locations.
- During the maintenance activities, barriers and signalman have been placed at the locations as mentioned in the Traffic management plan.
- Special safety arrangements are implemented at Bridges construction locations including hard barricading. etc.

4.0 COVID-19 Preventive measures implemented at site during post stage of outbreak

Project works are continued during reported month following the Guidelines on COVID-19 preparedness for workplace, provided by the Directorate of Environmental health, Occupational health and Food safety, Ministry of Health and Indigenous Medical Services of Sri Lanka.

On 4th October 2020, again an alarming situation arised in Sri Lanka with the identification of a new patient in the community after 5 months. As a result, a difficult situation was raised again in the country and the impacts for the construction sites are also identified.

Therefore, a special awareness session regarding second wave of Covid-19 Pandemic in Sri Lanka was conducted on 05th October 2020 at RMC Office Complex.

Further, Preventive Measures which were already implemented according to the 'COVID-19 Preparedness and Response Plan' are thoroughly monitored and improved.

- Provide hand washing facilities and making sure that those are kept clean, properly stocked and in proper working order. Provide standard hand sanitizers and tissues.
- All employees are instructed to wear face masks.
- Body temperatures of the employees are measured on daily basis. If any employee is found sick or showing any sign of sickness, shall be immediately isolated and directed for medical assistance.
- Instruct to avoid close contacts with anyone and practice 1.0 m distance in office arrangements and during construction works.
- Special arrangement at RMC main yard for the salary distribution to the labours considering the minimum of 1.5 m physical distance and other hygiene practices
- Disinfect the workplace and accommodations regularly to keep the workplace clean and hygienic.
- Disinfect all transportation vehicles coming from risky districts and after travelling to risky districts.
- Restrict large gatherings. Essential meetings were held with minimal no of attendees while keeping 1 m distance.

- If someone becomes ill with respiratory symptoms at work, arrange the person for medical treatment. Encourage employees who are suffering from respiratory illness to stay home.
- Document sterilization before taking in to the office (heat at 700C for 1 hour).
- Lunch breaks are taken in batch-wise to prevent crowding in dining area and chairs were arranged keeping 1 m physical distance.
- All cleaning staff were made aware on correct procedure of waste management and provided with suitable PPE.
- Maintain regular housekeeping practices, disinfecting of surfaces, equipment, and other items in the workplace.
- All workers and staff members were advised not to enter risky areas for any requirement to encourage social distancing.
- Tool box meetings shall be conducted in weekly basis in small groups maintaining a safe distance.
- Visitor management system has been implemented. Security awareness and visitor awareness guidelines have been displayed at Project Office Complex.