

Environmental Monitoring Report

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Annual Report
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SRI: Integrated Road Investment Program – Tranches 2, 3 & 4 PIC 02 – North Western and North Central Provinces

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

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ADB FUNDED INTEGRATED ROAD INVESTMENT PROGRAM

ANNUAL ENVIRONMENT COMPLIANCE MONITORING REPORT

NORTH CENTRAL & NORTH WESTERN PROVINCES



January to December 2020



REPORT PREPARED BY

PYUNGHWA ENGINEERING CONSULTANTS

In Association with

RESOURCES DEVELOPMENT CONSULTANTS

On behalf of

ROAD DEVELOPMENT AUTHORITY

MINISTRY OF HIGHWAYS

Submitted to

ASIAN DEVELOPMENT BANK



Content

No.	Content	Page
	Content	
	Abbreviation	
1.0	Introduction	01
1.1	The Conventional Roads Contracts (CRC)	03
1.2	Road Management Contracts (RMC)	03
1.3	Contract Package Summary	05
1.4	Staffing setup (PIU/PIC/Contractor) with respect to Environmental Safeguards	16
1.4.1	PIU Staff	16
1.4.2	PIC Staff	17
1.4.3	Contractor's Staff	23
1.5	Purpose and Structure of the Project	25
2.0	Progress of Civil Works during the reporting period	25
2.1	Contract KU 01- Contractor MAGA Engineering PLC	25
2.2	Contract KU 02- Contractor KDAW-BMG Joint Venture	26
2.3	Contract KU 03- Contractor Ranken Railway Construction Co. Ltd	27
2.3.1	Status at the Termination – KU 03	28
2.4	Contract KU 03-R- Contractor RR CONSTRUCTION (PVT) LTD.	29
2.4.1	Contract KU 03-R - Current Status	29
2.4.2	Progress Summary of Road and Structural Works for KU 03-R	31
2.5	Contract KU 04 - Contractor V.V. Karunaratne & Company	33
2.5.1	Status at the Termination – KU 04	33

No.	Content	Page
2.5.2	Emergency Works in KU 04 Package (Road ID 27 & 28)	34
2.5.3	Variation Status Road ID 27 (MAGA) & Road ID 28 (KDAW)	35
2.5.4	Progress Summary of Road Works in Road ID 27 & 28 (Under Variation)	35
2.6	Contract KU 05 - Contractor Ranken Railway Construction Co. Ltd.	36
2.6.1	Status at Termination – KU 05	36
2.7	Contract KU 05-R - Contractor Finite Lanka (Pvt) Ltd.	38
2.7.1	Contract KU 05-R - Current Status	38
2.7.2	Progress Summary of Road and Structural Works – KU 05-R	41
2.8	Contract PU 01- Contractor Ranken Railway Construction Co. Ltd.	43
2.9	Contract PU 02- Contractor V.V. Karunaratne & Company	45
2.9.1	Status at Termination – PU 02	45
2.9.2	Emergency Balance Work in PU 02 Package (Road IDs 04,09 & 26)	46
2.10	Contract PU 03 - Contractor V.V. Karunaratne & Company	46
2.10.1	Status at the Termination – PU 03	47
2.10.2	Emergency Balance Work in PU 03 Package (RD IDs 17,21,22,34 & 38)	48
2.11	Present Status of CRCs – North Central Province	48
2.11.1	Contract AP 01- Contractor MAGA Engineering PLC	48
2.11.2	Contract AP 02- Contractor MAGA Engineering PLC	49
2.11.3	Contract AP 03- Contractor MAGA Engineering PLC	50
2.11.4	Contract AP 04- Contractor MAGA Engineering PLC	51
2.11.5	Contract PO 01- Contractor MAGA Engineering PLC	52

No.	Content	Page
2.11.6	Contract PO 02- Contractor MAGA Engineering PLC	54
2.11.7	Contract PO 03- Contractor TISSA - AMSK JV	55
3.0	Compliance with Environmental Safeguards requirements in the Loan Document	58
3.1	Compliance with Tranche 1,2,3 and 4	58
3.2	Safeguards Monitoring and Reporting	59
3.3	Compliance with FAM	60
3.4	Compliance with respect to EARE	62
4.0	Monitoring of Environmental Compliance at Field level	63
4.1	Main Environmental Safeguards activities conducted	63
4.2	The documents that Contractor should submit	64
4.3	Implementation of GRM	71
4.4	Licenses and Approvals	74
4.5	HIV/ AIDS Awareness Programs conducted	75
4.6	Field Environmental monitoring carried out by PIC, PIU and ESSD in brief	78
4.6.1	Some pictures of site inspections and meetings conducted in PIC 02	88
4.7	Site visits conducted jointly with PIC, PIU and CSD/ESSD	90
4.8	Site visits conducted by ADB Missions	90
5.0	Issues observed (Environment related) and status of compliance	90
5.1	Issues and mitigation measures applied	90
6.0	Public Construction and information dissemination	98
7.0	Programs and activities to enhance the Environment	99

No.	Content	Page
8.0	Road Handing over and PBM	103
9.0	Special construction activities to mitigate the Environmental issues incorporated into the design for, complying the 'All-weather roads' concept	105
❖	COVID-19 Epidemic Situation and updates of the PIC 02	109
10.0	Constructions and Recommendations	117
10.1	Conclusions	117
10.2	Recommendations	120
	Tables	
01	Table 01: CRCs in Kurunegala District	05
02	Table 02: CRCs in Kurunegala District	06
03	Table 03: Status of new Bidders of KU 04-R, KU04-R2 and KU04-R3	07
04	Table 04: CRC's in Puttalam District	09
05	Table 05: Status of new Bidders of PU02-R1, KU02-R2 and PU03-R	10
06	Table 06: CRC's in Anuradhapura District	12
07	Table 07: CRC's in Polonnaruwa District	14
08	Table 08: Local Staff Mobilization	21
09	Table 09: Contract KU 01- All the Roads Handed Over to Client-RDA	25
10	Table 10: Contract KU 02- All the Roads Handed Over to Client-RDA	26
11	Table 11: Progress of Termination – KU 03	28

No	Content	Page
12	Table 12: KU 03-R Physical Progress as per the revision (EOT 1- Interim1)	30
13	Table 13: KU 03-R Financial Progress as per the revision (EOT 1- Interim1)	31
14	Table 14: Progress Summary of Road Works for KU 03-R	31
15	Table 15: Progress Summary of Structural Works KU 03-R	32
16	Table 16: Package KU 04 Progress at Termination	33
17	Table 17: Progress at Termination of Package KU 05	36
18	Table 18: KU 05-R Physical Progress as per the revision (EOT 1- Interim1)	39
19	Table 19: KU 05-R Financial Progress as per the revision (EOT 1- Interim1)	40
20	Table 20: Progress Summary of Road Works of KU 05-R	41
21	Table 21: Progress Summary of Structural Works KU 05-R	42
22	Table 22: Contract PU 01- Physical Progress	43
23	Table 23: Contract PU 01- All the Roads Handed Over to Client-RDA	44
24	Table 24: Progress at Termination – PU 02	45
25	Table 25: Progress at Termination – PU 03	46
26	Table 26: Contract AP 01- All the Roads Handed over to Client -RDA	48
27	Table 27: Contract AP 02- All the Roads Handed over to Client -RDA	49
28	Table 28: Contract AP 03- All the Roads Handed over to Client -RDA	50
29	Table 29: Contract AP 04- All the Roads Handed over to Client -RDA	51
30	Table 30: Contract PO 01- All the Roads Handed over to Client -RDA	52
31	Table 31: Contract PO 02- All the Roads Handed over to Client -RDA	54
32	Table 32: Contract PO 03- All the Roads Handed over to Client –RDA	55
No	Content	Page

33	Table 33: Summary of roads taken over	56
34	Table 34: Summary of SSEMAPs submission and approvals at end of December 2020	65
35	Table 35: Summary of SSEMAPs submission and approvals of Re-tendered packages at the end of December 2020	66
36	Table 36: EMCs approvals at the end of year 2020	68
37	Table 37: EMCs approvals at the end of year 2020; Re-tendered packages	70
38	Table 38: Progress of GRC Formation by 31 st December 2020	71
39	Table 39: Package wise Complaints/Requests/Suggestions during the year 2020	73
40	Table 40: HIV/ AIDS Awareness Programmes conducted during 2020	75
41	Table 41: Site visits conducted jointly with PIC, PIU and Contractor	78
42	Table 42: Weather condition from January to December 2020 according to Contractor's information (No. of Days)	92
43	Table 43: Tree re-planting in numbers	96
44	Table 44: Environmental related capacity programmes conducted during year 2020	100
45	Table 45: School Environmental Awareness/Training Programmes	102
	Figures	
01	Figure 01: Provincial Locations	04
02	Figure 02: Project Roads in Kurunegala District	08
03	Figure 03: Project Roads in Puttalam District	11
04	Figure 04: Project Roads in Anuradhapura District	13
05	Figure 05: Project Roads in Polonnaruwa District	15
06	Figure 06: Figure Illustrating Progress (km) of Road Works at time of Termination for KU 03	28

No	Content	Page
07	Figure 07: Figure illustrating the termination status for Road Structures Work in project KU 03	28
08	Figure 08: Illustrates the current status of contract KU03-R	29
09	Figure 09: Graph of Physical progress illustrating the physical 'S' curve with EOT 1- Interim 1	29
10	Figure 10: Graph of Financial Progress illustrating the Financial 'S' curve with EOT 1- Interim1	30
11	Figure 11: Chart illustrating progress summary of Road Works for KU 03-R	32
12	Figure 12: Illustrating progress (km) of Road Works at time of termination for KU 04-R	33
13	Figure 13: Figure illustrating progress (km) of Road Work at time of termination for KU 04	34
14	Figure 14: Figure illustrating progress up to end of October 2020 for Road ID 27 & 28	35
15	Figure 15: Figure illustrating progress (km) of Road Works at time of Termination for KU 05	37
16	Figure 16: Illustrating the termination status for road Structures Work in project KU 05	37
17	Figure 17: The current status of contract KU 05-R	38
18	Figure 18: Graph of Physical Progress (percentage) vs Time (month), illustrating the physical 'S' curve	39
19	Figure 19: Graph of Physical Progress (percentage) vs Time (month) in KU05-R, illustrating financial 'S' curve	40
20	Figure 20: Chart of Road Works progress in KU 05-R	42
21	Figure 21: Completed Road works at time of termination for PU 02	45
22	Figure 22: Progress of Structural Works at time of termination for PU 02	46
23	Figure 23: Completed Road works at time of termination for PU 03	47
24	Figure 24: Progress of Structural Works at time of termination for PU 03	48
25	Figure 25: Checklist of Environmental related Road Rehabilitation	103

	Charts	
01	Chart 01: PIU Staff (Environmental Related) as per the project	17
02	Chart 02: PIC Staff (Environmental Related) requirement – Before the end of August 2019	19
03	Chart 03: Organization chart of PIC 02	20
04	Chart 04: Contractor's Staff (Environmental Related)	24
05	Chart 05: Distribution of the newly appointed Contractors for the re-tendered packages	57
	Case Studies	
01	Case Study 01	-
02	Case Study 02	-
	Annexures	
01	Annexure I: Recruitment Details of Environmental and Social Officers (ESOs)	-
02	Annexure II: Environmental Safeguards Capacity Building	-
03	Annexure III: Attention paid for complains, requests and suggestions made at Transect walks meetings and Complaint Registers.	-
04	Annexure IV: License and Approvals	-
05	Annexure V: Environmental Issues as Contract Package Wise	-
06	Annexure VI: Tree removal and re-planting progress	-
07	Annexure VII: Property Condition Survey	-

Abbreviation

ADB	=	Asian Development Bank
ARE	=	Assistant Resident Engineer
AP	=	Anuradhapura
BOQ	=	Bid of Quantity
CE	=	Construction Engineer
CEA	=	Central Environmental Authority
CRC	=	Conventional Road Contracts
CP	=	Contract Package
CSD	=	Context Sensitive Design
DO	=	Divisional Officer
EARF	=	Environmental Assessment Review Framework
DPM	=	Deputy Project manager
DS	=	Divisional Secretary/Secretariat
DSESA	=	District Social and Environmental Safeguards Assistant
DSO	=	Divisional Secretariat Office
DWLC	=	Department of Wildlife Conservation
EMC	=	Environmental Monitoring Checklist
EMP	=	Environmental Management Plan
EMoP	=	Environmental Monitoring Plan
ES	=	Environmental Specialist
ESA	=	Environmental Safeguards Assistant
ESDD	=	Environmental & Social Development Division
ESO	=	Environment and Social Officer
ESSO	=	Environmental and Social Safeguards Officer
FAM	=	Facility Administrative Manual
FD	=	Forest Conservation Department
GIS	=	Geographical Information System
GN	=	Grama Niladhari
GND	=	Grama Niladhari Division
GoSL	=	Government of Sri Lanka
GR	=	Grievance Redress

GRC	=	Grievance Redress Committee
GRM	=	Grievance Redress Mechanism
IEE	=	Initial Environmental Examination
IML	=	Industrial Mining License
IR	=	Involuntary Resettlement
iRoad	=	Integrated Road Investment Program
KU	=	Kurunegala
LKR	=	Sri Lankan Rupees
MFF	=	Multi-Tranche Financing Facility
NBRO	=	National Building Research Organization
NCD	=	Not Communicable Diseases
NCP	=	North Central Province
NWP	=	North Western Province
PC	=	Provincial Council
PBM	=	Performance Based Maintenance
PD	=	Project Director
PE	=	Project Engineer
PEC	=	Pyunghwa Engineering Consultants Ltd.
PIC	=	Project Implementation Consultant
PIU	=	Project Implementation Unit
PM	=	Project Manager
PO	=	Polonnaruwa
PRDA	=	Provincial Road Development Authority
PRDD	=	Provincial Road Development Department
PS	=	Pradeshiya Sabha
PU	=	Puttalam
RD	=	Road
RDA	=	Road Development Authority
RDC	=	Resources Development Consultants
RE	=	Resident Engineer
RF	=	Resettlement Framework
RMC	=	Road Management Contract
SAC	=	Statement at Completion
SE	=	Site Engineer

SGRS	=	Social, Gender & Resettlement Specialist
SLRM	=	Sri Lanka Resident Mission
SO	=	Safety Officer
SPS	=	Safeguards Policy Statement
SSA	=	Social Safeguards Assistance
SSEMAP	=	Site Specific Environmental Management Action Plan
SSO	=	Social Safeguards Officer
STD	=	Sexual Transmitted Diseases
TA	=	Technical Assistance
TL	=	Trade License
TO	=	Technical Officer
VC	=	Vice Chairman

ADB Funded Integrate Road Investment Program

Annual Environment Compliance Monitoring Report – 2020

1.0 : Introduction

As an island located in the Indian Ocean, Sri Lanka has a land area of about 65,610 km² and a population of above 20 million. The country has a higher road density compared to the other countries in the South Asian region. However, the Government of Sri Lanka has identified that the poor transport infrastructure has hindered the distribution of economic activities and access to basic health and education and other social resources of the public. In order to assist the development drive of the nation, the GoSL has now taken a bold policy decision to improve the national road network. The national road network improvement has now been coupled with the development of rural road network as a means of distributing the social and economic benefits to the rural population has requested financial assistance from the Asian Development Bank (ADB) for the investment program which is officially called as **“Integrated Road Investment Program”** or **iROAD program**.

The investment program is in line with the government’s sector objective, which is to **“Establish a modern transport system that will enable acceleration of economic growth.”**

The iRoad Program oriented around a number of Grama Niladhari Divisions (GNDs) within nine (09) provinces, all over the country selected based on the population, development potential and distance to trunk road network. Enhancement of connectivity is to be achieved through;

1. Improving rural access roads linking the rural hubs to trunk road network to all weather standards.
2. Operating a sustainable trunk road network, encompassing national roads, of at least fair condition.

The Program is expected to allow people from rural villages to directly access other areas of the country to engage in a number of social and economic activities, thereby serve as a tool for alleviation of poverty. The improved roads will be maintained to appropriate periodic maintains to increase their lifetime. The second output which the program intends to achieve is to enhance the capacity of road agencies.

The iRoad program is currently operated in Southern (PIC 01-Project 1), Sabaragamuwa Province and Kalutara District (PIC 03-Project 2), Central Province (PIC 03-Project 3), North

Central Province (PIC 02-Project 4) and North Western Province (PIC 02-Project 5). In year 2020, program was still under Tranche 4 & PIC 02 supervises the implementation of civil works contracts of Project 4 & 5. End of the 2019, the iRoad II was started. Under the iRoad II Program around 3750km of rural roads in Uva (PIC 06), Eastern (PIC 05), Northern (PIC 04) and Western (PIC 07) provinces will be improved / rehabilitated and maintained for three years through 53 civil works contracts.

This is the Annual Environment Compliance Monitoring Report – 2020 prepared on behalf of the iRoad PIC 02 of North Western Province and North Central Province. In accordance with the EARF, this is a compulsory report that should be prepared by the iRoad PIC 02.

Environmental safeguard is one of the major compulsory components of the iRoad project and the Environmental Assessment and Review Framework is prepared to guide selection, screening, categorization, impact assessment, project implementation and monitoring of Environmental Safeguards according to the requirement of the Government of Sri Lanka as well as the ADB Safeguards Policy Statement 2009.

As per the Environmental Assessment and Review Framework (EARF), it is required to submit an Annual Monitoring Report on Environmental compliances for the time period from January to December 2020 of iRoad Program.

The Project Implementation Consultants (PIC 02) were deployed from 15th of March 2016 while construction contracts were awarded in 01st of August 2016 to 15 Contractors as 5 Contract Packages in Kurunegala District, 3 Contract Packages in Puttalam District, 4 Contract Packages in Anuradhapura District and 3 Contract Packages in Polonnaruwa District. In accordance with the agreement, ADB provides \$200.00 Million with \$83.00 Million counterpart of Sri Lanka and total amount is \$283.00 Million.

As per the road categorization, around 560.61km of PS roads, 636.16km of PRDA/PRDD roads and 4.53km of RDA roads are included in this program for rehabilitation. The total length is 1201.30Km. The construction activities have to be completed within 24 months by Contractors and completed roads should be maintained by them for 36 months which is called PBM period. The project mainly focuses on the rehabilitation of existing carriageways to suit all weather conditions. The improvements will be done within the available corridor of the candidate roads.

The selection of rural roads for rehabilitation has been based on the concept of community participation in development and the avoidance of any land acquisition and involuntary resettlement (IR). Only Land Donation is implementing if it is needed.

The investment program is based on ADB's Multi-Tranche Financing Facility (MFF) which comprises a series of loans for rural routes improvement in a number of districts and will involve two types of contract modalities. Conventional Roads Contracts (CRCs) and Road Management Contracts (RMCs).

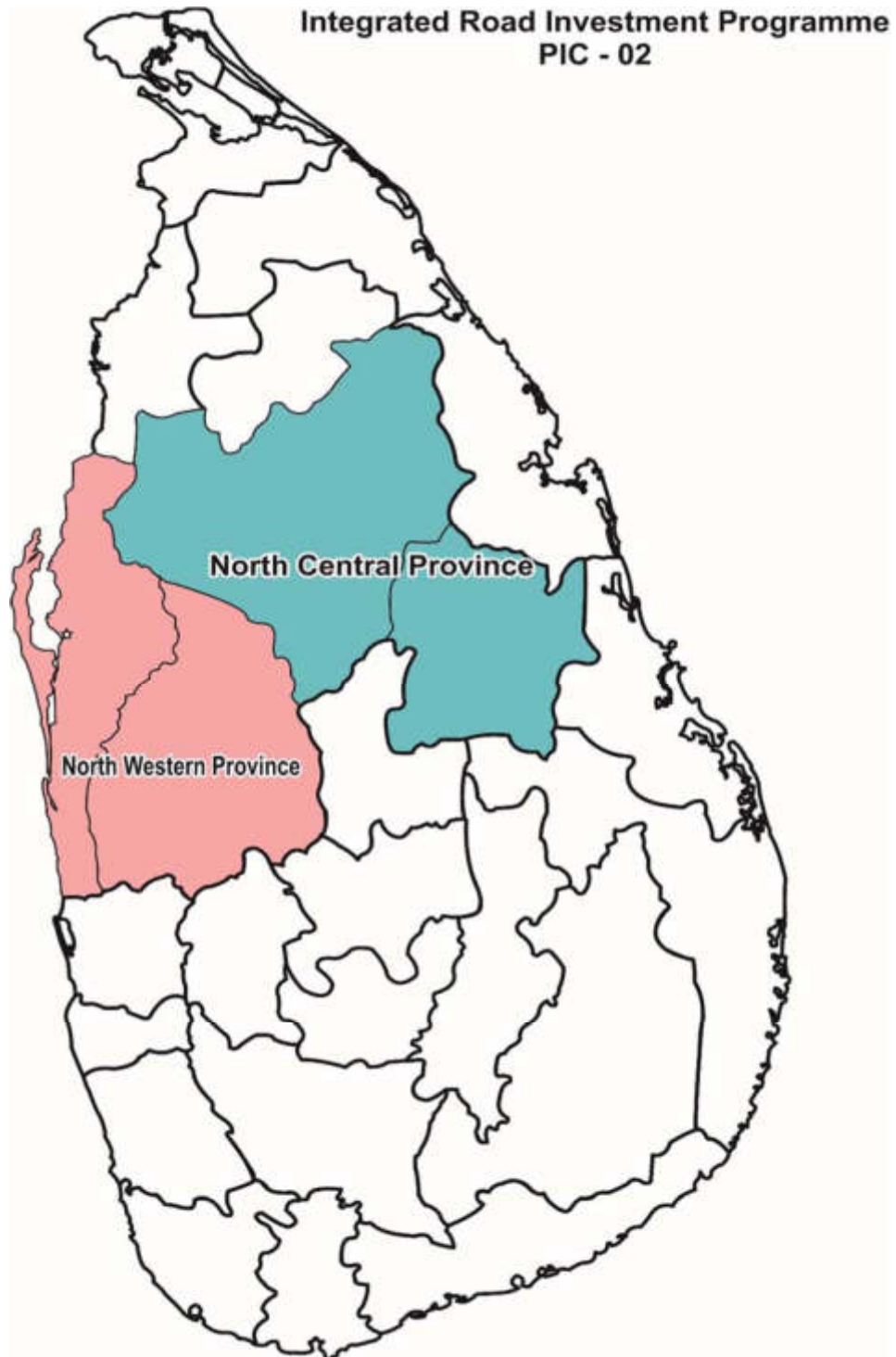
1.1 : The Conventional Roads Contracts (CRC):

The iROAD Project will upgrade and improve approximately 1201.30 km of rural access road in the NW & NC Provinces to all weather standards sustaining connectivity between rural communities and socioeconomic centers in Sri Lanka. The roads under the contract packages are isolated lengths of roads dispersed across the North Western Province and North Central Province. The PIC will provide construction supervision services for fifteen (15) CRC's in Anuradhapura, Polonnaruwa, Puttalam and Kurunegala composed of approximately 1201.3 km of provincial and rural roads as per the tables below. Initial construction is to be completed over the first 2 years followed by a 3 years' Performance-Based Maintenance period.

1.2 : Road Management Contracts (RMC):

These contracts are based on simple Bidding documents developed by the World Bank for Output and Performance-Based road contracts. Within each package a significant portion will require rehabilitation in the first 1-2 years with the remainder possibly requiring periodic surfacing throughout the contract period (7 years in total). Routine maintenance of the entire length throughout the contract period is part of the work.

Figure 01: Provincial Locations



1.3 : Contract Package Summary

Table 01: CRCs in Kurunegala District

Package No		KU 01	KU 02	KU 03	KU 04	KU 05
Contractor		MAGA Engineering PLC	KDAW-BMG JV	Ranken Railway.	VVK Construction	Ranken Railway.
Accepted Contract Amount (LKR)		2,005,790,082.72	2,124,166,266.00	1,976,721,917.95	2,091,174,540.00	1,996,560,050.43
Cost to completion as at December 2018 (LKR)		1,855,195,883.81	2,074,315,299.90	1,970,612,536.58	1,917,632,534.62	1,929,219,115.56
VAT/(millions)		-	-	-	Minus 51.6	-
SAC/(LKR)		1,817,085,330.92	2,123,959,956.99	-	-	-
Claims	Input Ind./(LKR)	63,837,316.56	41,079,744.07	-	-	-
	Others/(LKR)	117,808,656.80	116,825,050.63	-	-	-
New VOs/(LKR)		256,882,455.15	117,432,785.85	-	-	-
PBM/(LKR)		24,500,141.00	7,696,942.50	-	-	-
Total/(LKR)		2,280,113,900.43	2,406,994,480.04	-	-	-
Employers claim		-	-	-	1,564,895,062.88	-
Commencement Date		01.08.2016	01.08.2016	01.08.2016	01.08.2016	01.08.2016
Completion Date with EOT-1		31.01.2019	29.03.2019	23.07.2019	30.09.2019	30.07.2019
Completion Date with EOT-2		N/A	08.05.2019	Contract has been awarded to the new contractor, and the new completion date is 13 th October 2021	Contract has been terminated & to be Retendered.	Contract has been awarded to the new contractor and the new completion date is 18 th October 2021
Completion Date with EOT-3		N/A	15.09.2019			
Road Length & number of Roads (km)/(nos.)		83.29/16	100.47/19	89.88/12	106.02/12	99.85/17
Status of Completion		100% completed and PBM in	100% completed and PBM in	47.69% completed, remaining	55.44% complete, balance works to	37.23% completed, remaining

	progress	progress	roadwork has been handed over to new contractor	be done	roadwork has been handed over to new contractor
Remarks	New VO for Road ID 27 in KU 04	New VO for Road ID 28 in KU 04	-	-	-

KU 03 and KU 05 contracts have been terminated, retendered and awarded. The contracts have been renamed as KU 03-R and KU 05-R.

Table 02: Status of new Bidders of KU 03-R and KU 05-R.

Package	Name of the Bidder	Evaluated Bid Price (including Contingency and excluding VAT)
KU 03-R	R.R. Construction (Pvt.) Ltd.	2,165,263,498.51
KU 05-R	Finite Lanka (Pvt.) Ltd.	2,296,136,981.33

KU 04 – The Employer has terminated contract vide letter Ref. No.: RDA/ADB/iROAD/GEN dated 13th of November 2019.

Now, The Road Development Authority (“The Employer”) has invited new bids from eligible bidders for the above package renamed as KU 04-R1, KU 04-R2 & KU 04-R3 under the Integrated Road Investment Program funding by Asian Development Bank (ADB) at North Western Province.

The Invitation for bids has been published on 19th of June 2020(Friday) in the Daily News Paper.

The substantially evaluated responsive successful bidder and the evaluated bid prices for each contract package in Kurunegala is as follows (Notice of Bid published in the Daily News newspaper on 08th of October 2020).

Table 03: Status of new Bidders of KU 04-R1, KU 04-R2 and KU 04-R3.

CONTRACT PACKAGE	Name of the Bidder	Evaluated bid price (including Contingency and excluding VAT) (LKR)
KU 04-R1	Business Promotors and Partners Engineering (Pvt) Ltd.	942,016,563.72
KU 04-R2	Anura Wijenayake & Co. (Pvt) Ltd.	647,515,489.20
KU 04-R3	International Construction Consortium (Pvt) Ltd.	965,856,373.20

The letter of acceptance dated 16th of October 2020 has been issued for the packages KU 04-R1, KU 04-R2, & KU 04-R3. Furthermore, the Kick-off meeting for the 3 aforementioned packages were held on the 04th of December 2020 and the Date of Commencement was 15th of December 2020.

Mobilization works for the aforementioned re-bid packages is in progress.

The locations of the 479.47 Km (76 Nos.) roads in Kurunegala District are shown in **Figure 02**

Figure 02: Project Roads in Kurunegala District

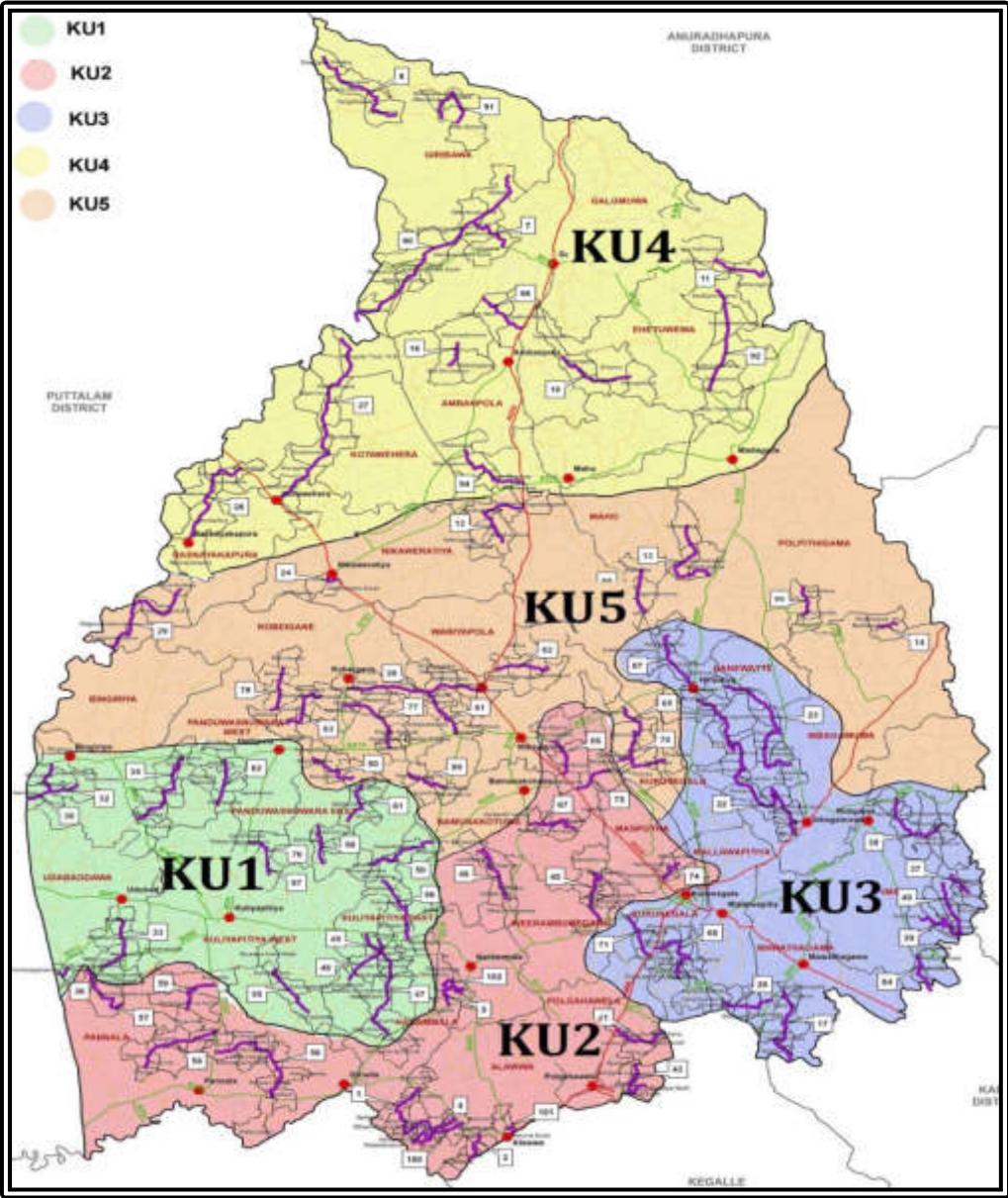


Table 04: CRCs in Puttalam District

Package No		PU 01	PU 02	PU 03
Contractor		Ranken Railway.	VVK Construction	VVK Construction
Accepted Contract Amount (LKR)		1,706,320,523.61	1,463,917,284.00	1,210,355,904.00
Cost to completion as at December 2018 (LKR)		1,528,656,836.02	1,303,639,714.35	850,961,270.16
VAT/(millions)		-	Minus 23.8	Minus 7.8
SAC/(LKR)		1,356,948,810.38	-	-
Claims	Input Ind./(LKR)	-	-	-
	Others/(LKR)	47,079,997.80	-	-
New VOs/(LKR)		-	-	-
PBM/(LKR)		10,809,018.00	-	-
Total/(LKR)		1,414,837,826.18	-	-
Employers claim		-	1,036,523,760.69	511,522,179.59
Commencement Date		01.08.2016	01.08.2016	01.08.2016
Completion Date with EOT-1		30.04.2019	30.09.2019	31.01.2019
Completion Date with EOT-2		27.07.2019	-	-
Completion Date with EOT-3		29.10.2019	Contract has been Terminated.	Contract has been Terminated.
Completion Date with EOT-4		15.11.2019		
Completion Date with EOT-5		28.02.2020		
Road Length & Number of Roads (km)/(nos.)		90.56/11	74.09/11	48.37/15
Status of Completion		100% completed	40.58% complete, balance works to be done	60.0% complete, balance works to be done
Remarks		-	-	-

PU 02 - The Employer has terminated contract vide letter Ref. No.: RDA/ADB/iROAD/GEN dated 19th of July 2019. PU 03 – The Employer has terminated contract vide letter Ref. No.: RDA/ADB/iROAD/GEN dated 13th of November 2019.

Now, The Road Development Authority (“The Employer”) has invited new bids from eligible bidders for the above packages renamed as PU 02-R1, PU 02-R2 & PU 03-R under the Integrated Road Investment Programme funding by Asian Development Bank (ADB) at North Western Province. The Invitation for bids has been published on 19th of June 2020(Friday) in the Daily News Paper.

The substantially evaluated responsive successful bidder and the evaluated bid prices for each contract package in Puttalam is as follows (As per the Notice of Bid published in the Daily News newspaper on 08th of October 2020).

Table 05: Status of new Bidders of PU 02-R1, KU 02-R2 and PU 03-R.

CONTRACT PACKAGE	Name of the Bidder	Evaluated bid price (including Contingency and excluding VAT) (LKR)
PU 02-R1	Edward and Christie	933,253,206.00
PU 02-R2	Luxman Metal Crushers & Enterprises	788,986,587.00
PU 03-R	Consulting Engineers & Contractors (Pvt) Ltd.	896,648,172.00

The letter of acceptance dated 16th of October 2020 has been issued for the packages PU 02-R1, PU 02-R2, and PU 03-R. Furthermore, the Kick-off meeting for the three aforementioned packages were held on the 04th of December 2020 and the Date of Commencement was on 15th of December 2020.

Mobilization works for the afore mentioned re-bid packages is in progress.

The locations of the 213.02Km (37 Nos.) roads in Puttalam District are shown in **Figure 03**

- 11 - | Page

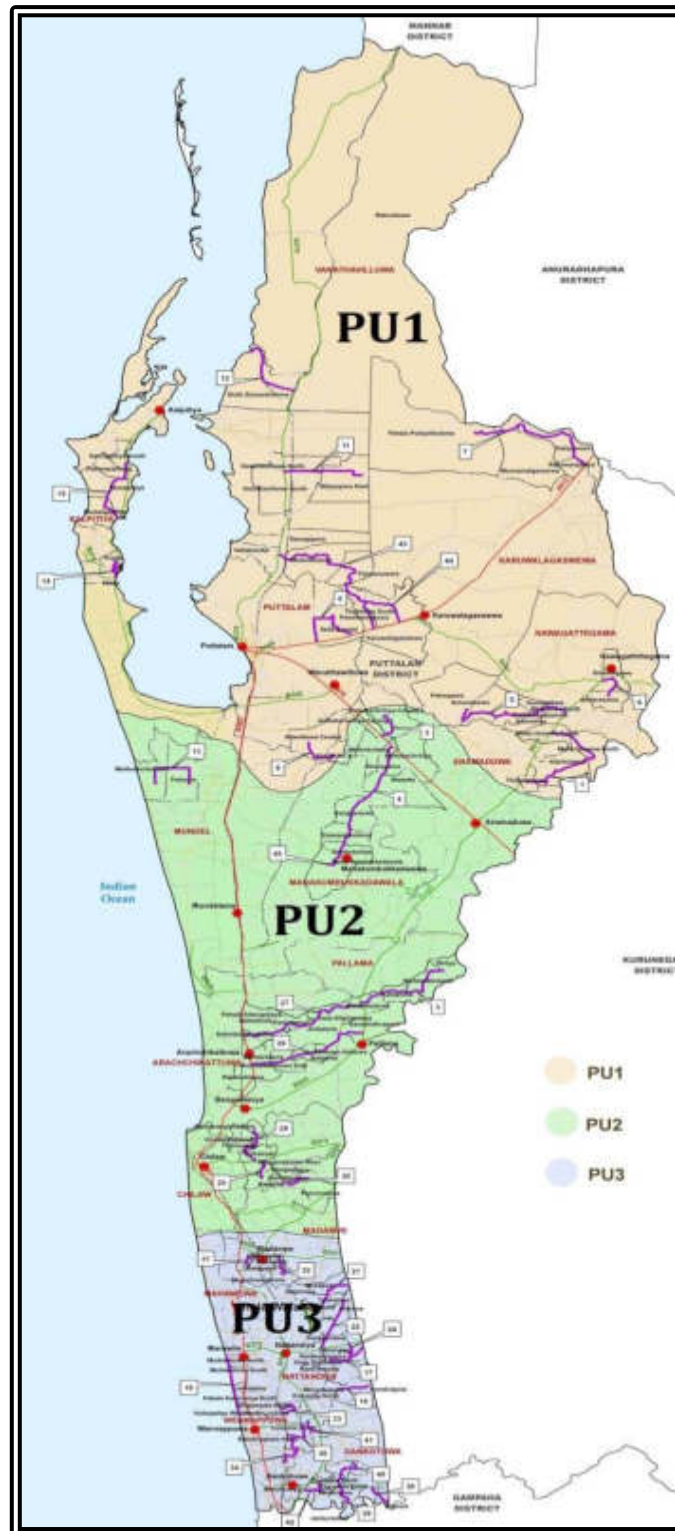


Table 06: CRCs in Anuradhapura District

Package No		AP 01	AP 02	AP 03	AP 04
Contractor		MAGA Engineering PLC	MAGA Engineering PLC	MAGA Engineering PLC	MAGA Engineering PLC
Accepted Contract Amount (LKR)		1,656,915,760.00	1,824,178,003.20	1,492,772,165.28	1,635,133,956.00
Cost to completion as at December 2018 (LKR)		1,472,422,749.36	1,598,474,135.99	1,584,486,896.22	1,430,172,199.47
VAT/(millions)		-	-	-	-
SAC/(LKR)		1,498,442,739.17	1,489,035,119.98	1,585,642,358.44	1,409,094,543.63
Claims	Input Ind./(LKR)	49,589,627.45	72,813,221.32	50,474,290.42	48,418,245.88
	Others/(LKR)	104,796,553.76	71,704,646.40	132,105,391.08	90,527,605.42
New VOs/(LKR)		-	-	-	800,078.74
PBM/(LKR)		21,439,896.00	19,890,024.00	21,698,208.00	20,025,244.19
Total/(LKR)		1,674,268,816.38	1,653,443,011.70	1,789,920,247.94	1,568,065,639.12
Employers claim		-	-	-	-
Commencement Date		01.08.2016	01.08.2016	01.08.2016	01.08.2016
Completion Date with EOT-1		31.01.2019	31.01.2019	31.01.2019	31.01.2019
Completion Date with EOT-2		30.04.2019	N/A	30.04.2019	N/A
Road Length & Number of Roads (km)/(nos.)		85.39/17	76.85/12	82.66/12	90.20/19
Status of Completion		100% completed, PBM in progress	100% completed, PBM in progress	100% completed, PBM in progress	100% completed, PBM in progress
Remarks		-	-	-	VO for recertification work in Siyabalawewa Tank Bund

The locations of the 335.10Km (60 Nos.) roads in Anuradhapura District are shown in **Figure 04**

Figure 04: Project Roads in Anuradhapura District

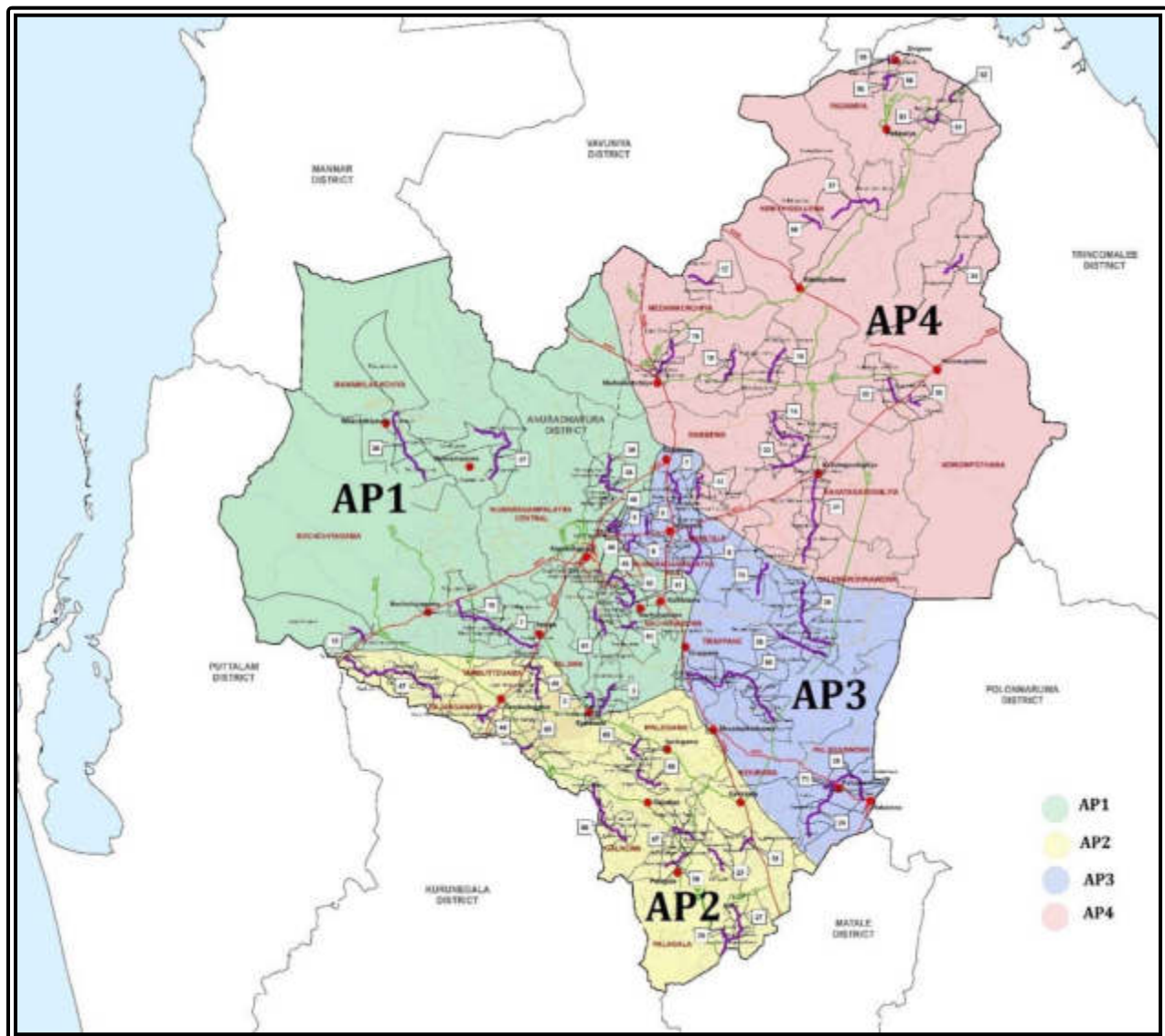
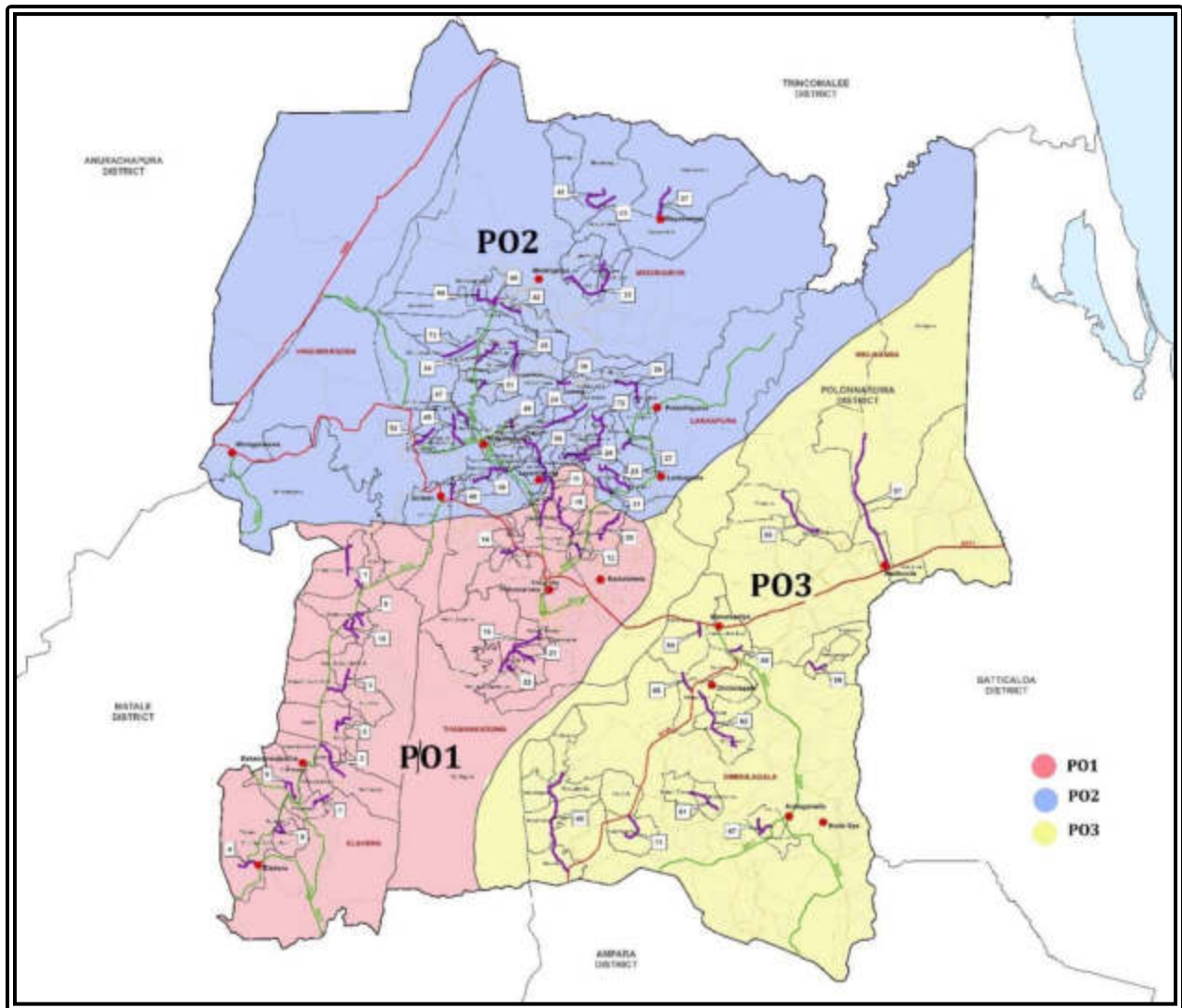


Table 07: CRCs in Polonnaruwa District

Package No		PO 01	PO 02	PO 03
Contractor		MAGA Engineering PLC	MAGA Engineering PLC	Tissa – AMSK Construction
Accepted Contract Amount (LKR)		1,158,532,987.42	1,483,692,044.52	1,249,343,460.00
Cost to completion as at December 2018 (LKR)		1,028,656,368.99	1,297,776,614.35	1,137,136,439.78
VAT/(millions)		-	-	-
SAC/(LKR)		936,219,653.61	1,241,734,881.48	1,038,697,834.93
Claims	Input Ind./(LKR)	39,178,448.91	74,622,270.93	27,420,628.79
	Others/(LKR)	40,094,771.96	130,162,872.06	57,071,047.94
New VOs/(LKR)		-	-	-
PBM/(LKR)		12,915,600.00	19,115,088.00	10,565,500.00
Total/(LKR)		1,028,408,474.48	1,465,635,112.47	1,133,755,011.66
Employers claim		-	-	-
Commencement Date		01.08.2016	01.08.2016	01.08.2016
EOT Period		63 Days	145 Days	92 Days
New Completion Date with EOT		02.10.2018	23.12.2018	31.10.2018
Road Length & Number of Roads [km]/[Nos]		50.76/18	73.36/25	49.55/11
Status of Completion		100% completed, PBM in progress	100% completed, PBM in progress	100% completed, PBM in progress
Remarks		-	-	-

The locations of the 173.67Km (54 Nos.) roads in Polonnaruwa District are shown in **Figure 05**.

Figure 05: Project Roads in Polonnaruwa District



When considering the NCP, the Total cost value of the all 7 packages in both Anuradhapura and Polonnaruwa are 10,500,568,377.22 LKR. But the Total SAC value with PBM is 9,354,123,917.56 LKR. Therefore, the saved amount is 1,146,444,459.66 LKR.

1.4 : Staffing Setup (PIU/PIC/Contractor) with respect to Environmental Safeguards

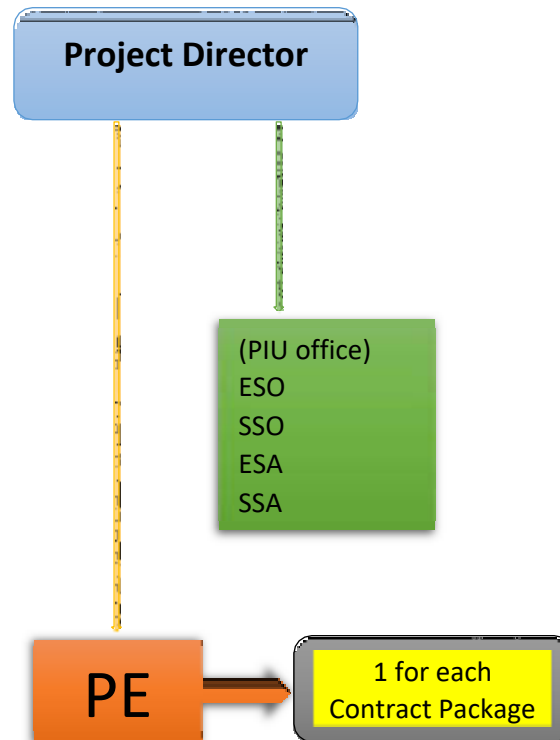
This PIC 02 of iRoad Program covers 227 roads in two provinces named North Western and North Central Provinces with two Project Implementation Units (PIUs) of two provinces. Hence PIC 02 has to work with 15 Contract Packages. During past period of 41 months, full effort was taken by all parties to recruit Environmental and Social Safeguards Officer (ESSO), District Social and Environmental Safeguards Assistants (DSESAs) and other officers to implement and monitor the environment safeguards component. But on the 01st of October, the staffing setup changed because some of the terminated packages were re-tendered and the staff has been reduced according to the requirement.

1.4.1 : PIU Staff

At the outset of the program, two PIUs recruited two Environmental Safeguards Officers (one for each province) for Environmental management. In addition, two Environmental Safeguards Assistants were also recruited. They monitor the project at the level of Project Director's office. They were looking after the Environmental related safeguards activities at PIU level. The Environment Safeguards Assistant recruited for NCP resigned in the year 2017. As well, the Environment Safeguards Officer (ESO) of NCP resigned in December 2017. However, 2 required officers were recruited for NCP in 2018. Then the ESO of NCP resigned in the end of November 2018 and the ESA resigned in the end of September 2019.

At the Contract Package level, Project Engineers (PEs) have been appointed by PIU to manage the engineering activities including Environmental and Social Safeguards requirements. The Project Director directs these officers to manage the Environmental safeguards activities in their own provinces by coordinating with the people and the line agencies.

Chart 01: PIU Staff (Environmental Related) as per the Project requirement



1.4.2 : PIC Staff

The PIC 02 was established from 15th March 2016 with Pyunghwa Engineering Consultants Ltd. (PEC) and Resources Development Consultants (RDC). An Environmental Specialist (ES) is available from the outset of the PIC 02. In addition, a Social Gender Resettlement Specialist (SGRS) has been appointed from the beginning. ES covers many activities related to Environmental Safeguards in accordance with the contractual guidelines by complying with ADB guidelines, Environmental Safeguards Policy (2009) and relevant existing Rules and Regulations of Sri Lanka according to the Environmental Assessment and Review Framework. EARF is a contractual document which is considered as a loan covenant. These two specialists look after two provinces entirely while Engineer/Team Leader leads and guides the Environmental activities in two provinces. Four Residence Engineers have been appointed as one per each district to monitor the Environmental activities in their respective district. Depending on the scope of the district, 2 Assistant Resident Engineers (AREs) were appointed

for Kurunegala district (NWP) and two for Anuradhapura district (NCP). One Assistant Resident Engineer has been appointed for Puttalam district and another one for Polonnaruwa district. The Environmental safeguards monitoring is a major role of their duty. To assist the ES and SGRS, an ESSO has been appointed in 2017. Due to experience in the past, 4 DSESAs were recruited for 4 districts. And also, the PIC has appointed 15 Construction Engineers for all 15 contract packages and two Technical Officers for each contract package. They are responsible for the monitoring of Environmental safeguards at contract package level.

But in the end of August 2019, the Team Leader, Contract & Claims Specialist, Environmental Specialist, Rural Road Design Engineer and most of the staff's contractual periods have been over and staff rearrangement was occurred. Therefore, according to the Environment section, the ESSO was recruited directly through Consultancy firm which is Resource Development Consultants (Pvt) Ltd as an Officer level. Then ESSO is the responsible person and has to cover the Environment compliance. Also, DSESA of Polonnaruwa and DSESA of Anuradhapura were resigned in the end of the February and end of the June 2019 due to completion of civil works of each district. DSESA of Puttalam was resigned in the end of 2019 and DSESA of Kurunegala assignment period was over in the end of February 2020. Moreover, SGRS was resigned on 10th of July 2020 and the position was rearranged as an Officer level same as ESSO. Hence, the new SGRO (Social Gender Resettlement Officer) was appointed on 11th of July 2020.

Chart 02: PIC Staff (Environmental Related) – Before the End of August 2019

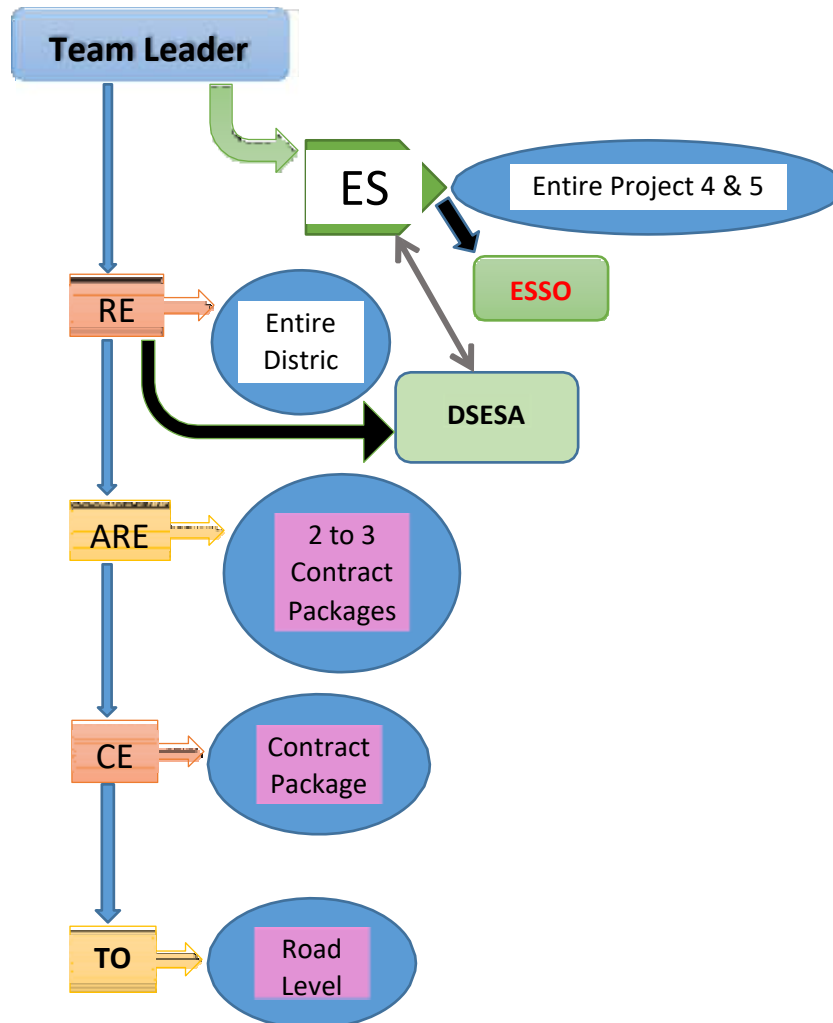


Chart 03: Organization Chart of PIC 02



Table 08: Local Staff Mobilization

Serial No.	Position	Name	Date of mobilization	Date of Demobilization
1	Chief Resident Engineer	A.P. Jayathissa	02.09.2019	Working
2	Resident Engineer - Kurunegala	W.G.Premadasa	01.11.2016	29.06.2019
3	Resident Engineer -Puttalam/Kurunegala	M.W.D.C.Gunaratne	23.01.2017	30.04.2020
4	Resident Engineer - Anuradhapura	A.P.Jayathissa	15.03.2016	31.08.2019
5	Resident Engineer - Polonnaruwa	P.Sivarajah	11.07.2016	29.06.2019
6	Assistant Resident Engineer -	T.I.Jayatilaka	01.08.2016	Working
7	Assistant Resident Engineer -	N.R.Dissanayake	29.08.2016	31.08.2019
8	Assistant Resident Engineer - Puttalam	A.G.C.Amarasinghe	22.08.2016	15.10.2019
9	Assistant Resident Engineer -	K.R.S.Kahatapitiya	01.08.2016	31.08.2019
10	Assistant Resident Engineer -	A.M.Rafy	22.08.2016	30.06.2019
11	Assistant Resident Engineer -	Eugene Barthelot	16.10.2017	29.06.2019
12	Contracts and Claims Specialist	V.Nallathamby	17.01.2017	31.08.2019
13	Claim & Office Engineer	R. Jeyakumar	01.06.2020	Working
14	Rural Road Design and Safety Engineer	S.H.Damith	17.04.2017	30.09.2019
15	Resident Engineer - TL's office	T.Jothivel	02.07.2018	30.09.2019
16	Rural Road Design and Safety Engineer	P.M.M.Vipulaguna	06.11.2017	31.08.2018
17	Structural Engineer	D.D.S.Jayathilaka	17.11.2016	17.05.2017
18	Materials Engineer - Kurunegala	I.G.R.C.Gunawardena	15.05.2016	15.11.2019
19	Materials Engineer – Puththalama,	H.M.Wijerathna	01.08.2018	Working
20	Materials Engineer - Anuradhapura	D.Vidyaharan	11.07.2016	30.03.2019
21	Materials Engineer - Polonnaruwa	J.L.A.Jayawardana	15.05.2017	31.12.2018
22	Quantity Surveyor - Kurunegala	W.K.A.S.Priyadarshana	02.08.2016	Working
23	Quantity Surveyor - Puttalam	D.M.Athulathmudali	21.03.2018	30.06.2020
24	Quantity Surveyor - Anuradhapura	A.Mettananda	25.07.2016	15.10.2019
25	Quantity Surveyor - Polonnaruwa	S.K.Subasinghe	05.09.2016	11.04.2019
26	Environmental Specialist	A.H.M.R.Abeyrathne	15.03.2016	30.09.2019
27	Social/ Gender/ Resettlement Specialist	N.Maddugoda	22.06.2016	11.07.2020
28	Environmental & Social Safeguards	S.N.D.Amaratunge	01.10.2019	Working
29	Social/ Gender/ Resettlement Officer	S.D.P.Weeraratne	11.07.2020	Working
30	Land Surveyor - Kurunegala	H.H.H. Gunaratna	22.05.2020	Working
31	Land Surveyor – Puttalam	R.Pratheepan	09.04.2019	30.09.2019
32	Land Surveyor - Anuradhapura	R.Pratheepan	17.04.2017	31.01.2019
33	Land Surveyor - Polonnaruwa	T.Suresh Kumara	08.08.2016	31.12.2018

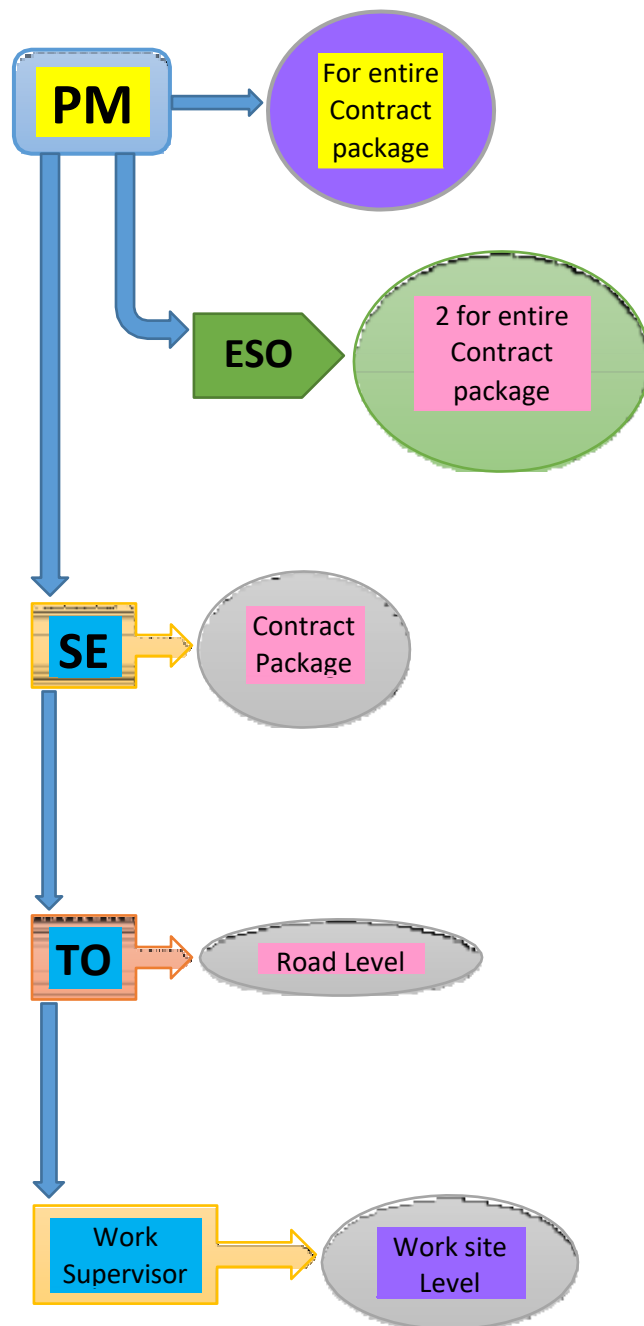
34	Construction Engineer - KU1	M.V.Thisara Udayanga	02.03.2018	30.03.2019
35	Construction Engineer - KU2	L.I.S.Perera	29.08.2016	28.02.2019
36	Construction Engineer - KU3	D.S.Navarathne	10.10.2016	30.09.2019
37	Construction Engineer – PU2, KU3-R	W.G.T.M. De Silva	18.04.2018	15.06.2020
38	Construction Engineer – KU3-R	T.M.M.Thennakoon	15.06.2020	23.11.2020
39	Construction Engineer - KU5	D.M.A.S.Dissanayaka	02.09.2016	28.02.2019
40	Construction Engineer – KU2, KU4, KU5 R	M.A.G.T.Mallawaarachchi	01.10.2016	Working
41	Construction Engineer - PU1	A.C.M.Imthiyas	11.01.2016	31.01.2019
42	Construction Engineer - PU3	S.B.P.B.M.P.G.Mittra Bandara	21.12.2017	30.04.2019
43	Construction Engineer - AP1	R.P.P.Anuradha	29.08.2016	31.01.2019
44	Construction Engineer - AP2	S.Yasokumar	01.09.2016	31.01.2019
45	Construction Engineer - AP3	W.N.I.Fernando	04.10.2018	30.03.2019
46	Construction Engineer - AP4	K.A.D.C.Sampath	19.09.2016	31.12.2018
47	Construction Engineer - PO1	K.V.D.K.C.Kumarasinghe	01.09.2016	31.12.2018
48	Construction Engineer - PO2	S.A.D.M.Rathnasiri	27.03.2017	31.12.2018
49	Construction Engineer - PO3	T.Jayadev	01.08.2018	31.12.2018
50	Technical Officer - KU1	S.Vitosan	01.12.2016	28.02.2019
51	Technical Officer – KU2	H.M.S.K.Herath	13.08.2016	31.10.2019
52	Technical Officer - KU2	B.P.K.Arambepola	09.08.2016	28.02.2019
53	Technical Officer - KU3	P.H.R.Kumara	03.08.2016	31.05.2019
54	Technical Officer - KU3	W.A.M.Kumarapala	09.08.2016	31.01.2019
55	Technical Officer – KU4, KU5R	S.M.C.J.Siriwardane	01.10.2016	Working
56	Technical Officer - KU4	R.G.D.N.Bandara	13.06.2017	30.09.2019
57	Technical Officer - KU5	I.H.M.N.C.Herath	01.09.2016	30.03.2019
58	Technical Officer - KU5	H.B.T.Bandara	06.09.2016	31.01.2019
59	Technical Officer - PU1	Y.Sri Weerasekara	11.07.2016	28.02.2019
60	Technical Officer - PU1	W.Nishanka	09.01.2017	15.10.2019
61	Technical Officer - PU2	W.M.S.Wijesundara	19.09.2017	31.01.2019
62	Technical Officer –PU2, KU5-R	H.M.A.I.Herath	12.01.2017	Working
63	Technical Officer –PU3, KU3-R	K.A.R.Wasantha Kumara	10.10.2016	Working
64	Technical Officer – PU1, KU3-R	W.P.P.Rangajeewa	15.02.2017	30.06.2020
65	Technical Officer - KU3-R	H.B.S.Haputhanthri	01.07.2020	Working
66	Technical Officer - AP1	A.S.Jayathilaka	15.09.2016	30.04.2019
67	Technical Officer - AP1	Baratheenathan Ajanthan	15.02.2018	30.03.2019
68	Technical Officer - AP2	H.B.S.Haputhanthri	29.08.2016	30.04.2019
69	Technical Officer - AP2	H.B.B.Udayakumara	22.08.2016	30.04.2019
70	Technical Officer - AP3	W.M.N.Dasanayaka	22.08.2016	30.03.2019

71	Technical Officer - AP3	D.K.Liyanarachchi	01.09.2016	30.04.2019
72	Technical Officer - AP4	B.Saktheikumar	18.08.2016	31.12.2018
73	Technical Officer - AP4	D.M.S.N.Amarasekara	16.08.2016	30.03.2019
74	Technical Officer - PO1	J.M.C.S.Jayawardana	22.08.216	30.11.2018
75	Technical Officer - PO1	K.H.G.D.Thushara	19.09.2016	31.12.2018
76	Technical Officer - PO2	G.Kirupaharan	29.08.2016	31.01.2019
77	Technical Officer - PO2	K.G.A.I.Chandrasena	12.09.2016	31.01.2019
78	Technical Officer - PO3	K.Moheswaran	13.08.2016	31.12.2018
79	Technical Officer - PO3	G.Thiparathan	05.09.2016	31.12.2018

1.4.3 : Contractor's Staff

According to Clause 5 - Personnel under Supplementary Information of Volume 5B of the Contract Agreement, the Contractor obliges to recruit two Environmental and Social Officers (ESOs) for each package. But in practice, all the Contractors faced a big problem of finding out qualified persons as ESOs. On the other hand, it was evident that many of recruited ESOs have been resigned due to various reasons such as they have to work in the very difficult area for a low salary and less facilities. Therefore, the Contractors faced a big problem to recruit new ESOs again and again. **Annexure I** show the situation of this issue faced by Contractors. But in the end of year 2020, all the NCP packages and the PU 01 package civil works completed. Then ESOs of those packages were resigned according to their contract periods. But 2 packages were re-tendered and commenced the works in middle of the February month 2020 at NWP. Anyhow, the new re-tendered two Contractors have been recruited qualified ESOs. As well as Project Managers/Contractors' Representatives have got the support of their Site Engineers, Technical Officers and Work Supervisors to implement the Environmental safeguards activities at site level.

Chart 04: Contractor's Staff (Environmental Related)



1.5: Purpose and Structure of the Project

The objective is to improve the transport infrastructure which hindered the spread of economic activities and the accessibility for basic health and educational resources in rural areas. Connectivity between rural communities and socio-economic centers will be expected by rehabilitating 1201.30 km of 227 roads in NWP and NCP.

Under this program, following components are included.

1. Road improvement component will design, improve and maintain 692.53 km in NWP and 508.77 km rural roads in NCP.
2. Capacity development component will build the capacity of road agencies on road asset management, project management and contract administration.

Transport sector development particularly in rural areas is vital to the economic, social and environmental viability of nations as it essentially helps reduce acute poverty in rural geographies to a great extent.

2.0 : Progress of Civil works during the reporting period

2.1 : Contract KU 01 – Contractor Maga Engineering PLC

The Contract Package KU 01 consists of 16 roads totalling 83.29 km and the accepted contract value is LKR 2,005,790,082.00. Please refer to the **Table 01** for further details.

All the major road works successfully completed by January 2019 and SAC is submitted to the employer on 03rd of July 2019. PBM in progress.

Table 09: Contract KU 01-Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length/ km
1	30	Talgahapitiya Junction to Walrawa Road	PRDD	5.50
2	32	Kaduruwewa School to Wallawewa School Road	PRDD	2.45
3	34	Meladeniya Junction Udawela Kakiriyamdiththa, Ganegoda to Ambawewa Road	PS	8.23
4	33	Karulla, Horathapola Kibulkotumulla via Paliyagara Road	PS	6.22
5	36	Kumbukgahamulla Central College Mawatha	PS	1.57
6	76	Kamburapola Junction to Pahalagamuwa, Nindawela Road	PS	4.50
7	97	Hidiyamulla Junction to Guruthippala Junction	PRDD	4.03

8	82	Nagollagoda, Ahetumulla, Higuregama Temple road	PS	4.51
9	81	Mawee ela Junction to Thelibewa Temple via Ilukpitiya Junction	PS	7.50
10	98	Magulagama Junction to Ambagahalanda Mohoththauwagoda Junction	PS	4.13
11	47	Bihalpola Muthugala Road	PRDD	10.30
12	48	Ihalamuluthangala to Korale Junction Road	PRDD	3.78
13	49	Nakkawattha, Temple Road, Kaballa Road	PS	2.20
14	50	Katupotha, Dalupothagama, Thoranegedara, Kirimatiyawa Road	PRDD	6.62
15	86	Horomubuwa Mawee Ela Road	PRDD	6.50
16	55	Kosgahamula Junction to Dambadeniya Road	PRDD	5.25
Total			-	83.29

2.2 : Contract KU 02 - Contractor KDAW-BMG Joint Venture

The Contract Package KU 02 consists of 19 roads totaling 100.47 km and the accepted contract value is LKR 2,124,166,266.00. Please refer to the **Table 01** for further details. All the major road works were successfully completed by August 2019 and SAC has been submitted to the Engineer on 13th of December 2019. It has been reviewed by the Engineer and submitted to the Employer on 28th of January 2020. PBM in progress.

Table 10: Contract KU 02 - Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
1	56	Elabadagama, Bummanna, Kadirapola, Labbala via Negombo Kurunegala Road	PRDD	10.29
2	57	Jayagama Kete Junction to Nabirittankadawara via Welipennagahamulla Road	PRDD	5.93
3	58	Eliwila, Daraluwa via Yakwila Road	PRDD	7.54
4	59	Nendalagamuwa Ayurveda Junction to Ninuwangamuwa Walakumburumulla Road	PS	4.84
5	1	Boyawalana Nawathalawatta Wewwala School Road Across Habaralagasinna Madurupitiya Road	PRDD	12.43
6	2	Paramulla to Morugama Across Bujjumuwa Road	PS	3.47
7	4	6 Mile Post, Thumbulla Road	PS	2.55
8	100	Hambuluwa Henahundeniya via Ambowa Wanathalawatta Hospital Road	PS	4.58

Serial No.	Road No.	Road Name	Road Category	Length / km
9	101	Allawwa Horokgasdeniya Road	PS	0.99
10	5	Dampelessa Dostarawaththa Across Welikumburawatta Road	PS	3.74
11	102	Pahatha medagoda Welikumburawatta Road	PS	3.17
12	41	Hodalla, Polpitiya, Dambagolla, Kandahena Road	PRDD	2.01
			PS	3.88
13	43	Panaliya Railway gate to Pillwatta Road	PRDD	5.00
14	45	Piduruwella, Sandagala, Weherabanda Road	PRDD	5.76
15	46	Pambe, Lokahettiya, Ranwala Gedara Road	PRDD	9.91
16	74	Wewa Gedara Ranviru School to Klohogedara via Yanthampalawa Junction	PS	2.62
17	75	Minhettiya Baddegama Kelimune Junction Road	PS	3.39
18	67	Jarman Junction to Nnawagatta Yatikadurawa, Ketapathwehera, Thembilipolagaha Junction	PS	4.72
19	66	Mahakeliya Randeniya Junction to Randeniya, Wellagal Road	PS	3.65
Total			-	100.47

2.3 : Contract KU 03 – Contractor Ranken Railway Construction Co. Ltd.

The Contract Package KU 03 consists of 12 roads totaling 89.88 km and the accepted contract value is LKR 1,976,721,917.95. As of October 2018, they have abandoned the site and they have closed their Site offices with only minor staff. From November 2018 onwards no staff is available on site and the Contractor's Site office is still closed. All the machineries from the site have been removed by the Contractor without the Consent of the Engineer or the Employer. The Engineer has recommended that the Client exercise their rights in issuing Sub Clause 15.2 – Termination Notice to the Contractor.

This project has been TERMINATED through letter Ref. No.: RDA/ADB/iROAD/GEN dated 12.02.2019 and the effective date, by which the contractor has to vacate the site is on the 26th of February 2019.

The Employer has awarded the contract to RR Construction (Pvt) Ltd and Letter of Acceptance has been issued on 22nd of January 2020. Contractor has accepted the same. KU 03 has been renamed as KU 03 – R.

Table 11: Progress of Termination – KU 03

Contract Package	Physical Progress at Termination	Financial Progress at Termination
KU 03	47.69%	42.18%

2.3.1 : Status at the Termination – KU 03

A. Road works (KU 03)

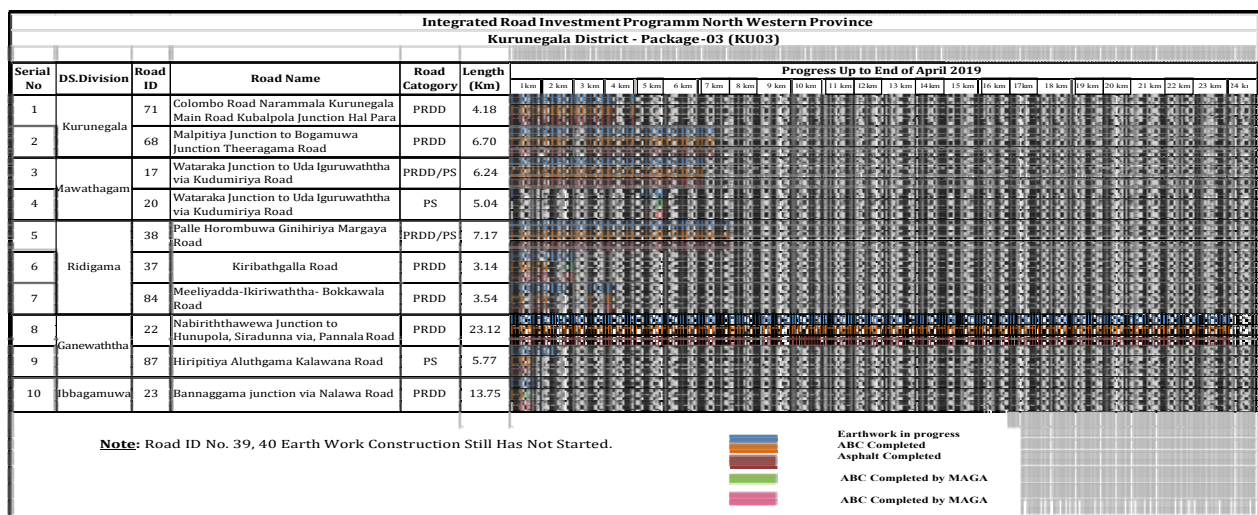


Figure 06: Figure illustrating progress (km) of Road Works at time of termination for KU 03

B. Structures Work (KU 03)

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert									Cleaning & Repairing of Culvert		
	Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	LHS			RHS			Both Sides			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
17	32	32		2	2		9	8	0							3	3					18	10	0
20	34	34		2			3						1			4						24	3	
22	35	35					2	1	0				1			1	1		1			1		
23	88	88					6		0	4			1			1						76		0
37	26	26					1		0				1	1		2	1	0				22		0
38	40	40					3	3					2	2		4	4					31	25	0
39	33	33		1			6						3			1	4					22		
40	68	68		1									1									66		
68	39	39		1	1								7	5	0	5	3	0	1			25	5	0
71	16	16					4	4											2	2		10	6	
84	26	26					4	1	0							2	2					18	11	0
87	23	23											1	1								22	2	
Page Total	460	460	0	7	3	0	38	17	0	4	0	0	19	10	0	23	14	0	4	2	0	335	62	0

Figure 07: Figure illustrating the termination status for Road Structures work in project KU 03

2.4: Contract KU 03-R - Contractor RR CONSTRUCTION (PVT) Ltd.

2.4.1: Contract KU 03-R - Current Status

All the approved Designs, Survey details, Test reports and other relevant documents (Environmental and Social related) etc. which are already available were handed over to the new Contractor for their review and acceptance.

Package No.	Contractor	Accepted Contract Amount	Date of LOA	Date of Commencement	Land handed over to Contractor	Advance Payment Guarantee In place	Performance Security in place	Advance Payment Certified by Engineer	Initial Clause 8.3 Program and Method Statement	Clause 8.1 Order to commence issued	Contractor Project Manager (CR) in place
KU3-R	RR Construction	2,165,263,498.51	22/1/2020	20/02/2020	✓	✓	✓	✓	✓	✓	✓

Figure 08: Illustrates the current status of contract KU 03-R

- Physical S-Curve of KU 03-R

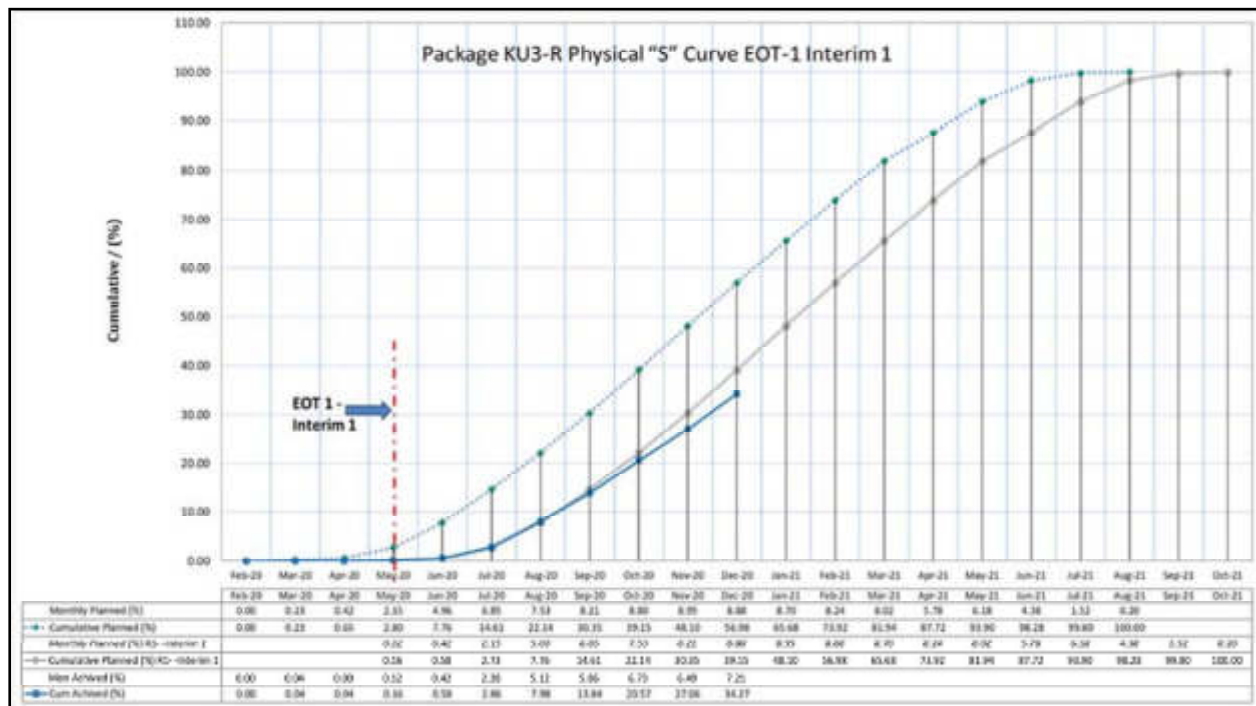


Figure 09: Graph of Physical Progress illustrating the Physical 'S' curve with EOT1 – Interim 1

Table 12: KU 03-R Physical progress as per the revision (EOT1 – Interim 1)

Package No	Cumulative Progress up to end of November 2020 (%)		Monthly Progress December 2020 (%)		Cumulative Progress up to end of December 2020 (%)		Next Month Target (%)
KU 03-R	Planned	Actual	Planned	Actual	Planned	Actual	
	30.35	27.06	8.80	7.21	39.15	34.27	8.95

- Financial S-Curve of KU 03-R

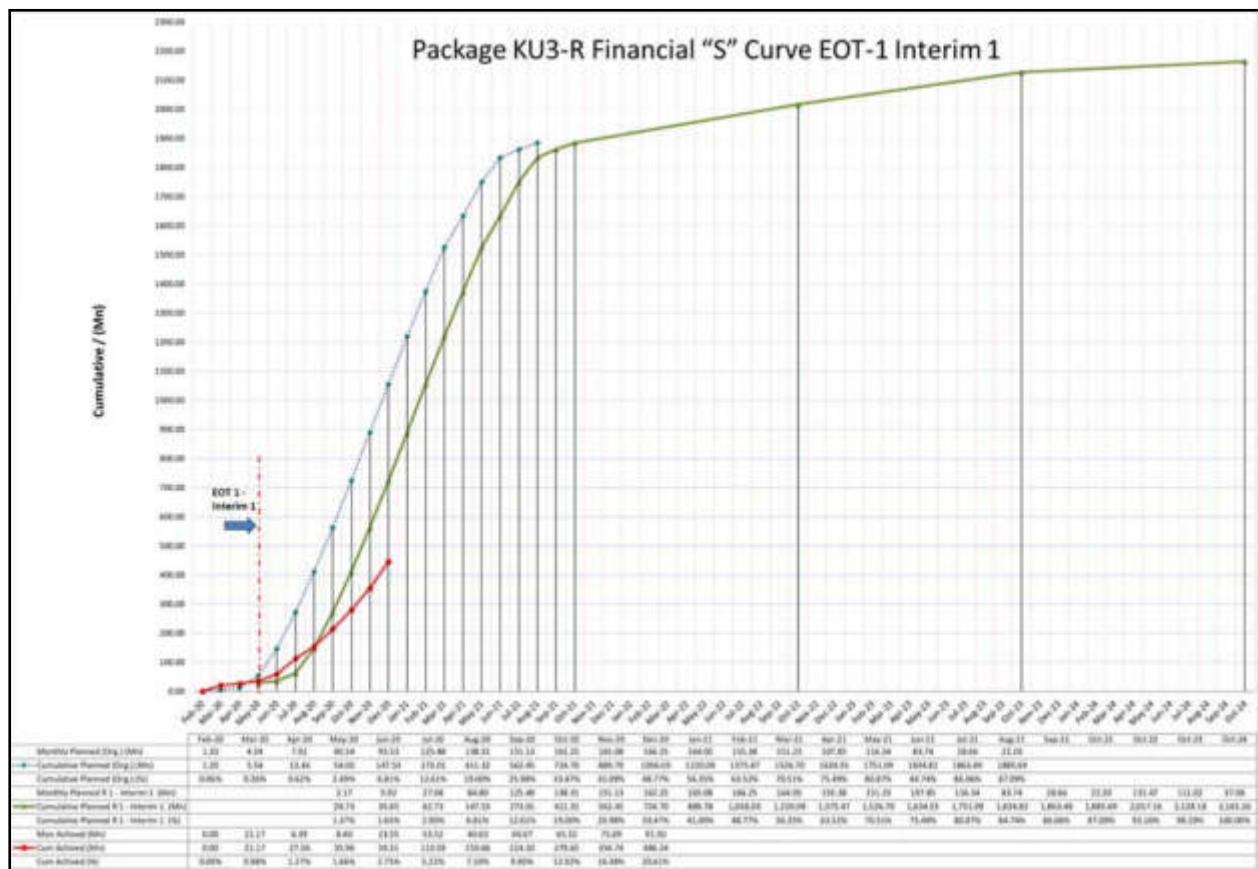


Figure 10: Graph of Financial Progress illustrating the Financial ‘S’ curve with EOT1 – Interim 1

Table 13: KU 03-R Financial progress as per the revision (EOT 1 – Interim 1)

Package No	Cumulative Progress up to end of November 2020 (%)		Monthly Progress December 2020 (%)		Cumulative Progress up to end of December 2020 (%)		Next Month Target
	Planned	Actual	Planned	Actual	Planned	Actual	
KU 03-R	25.98	16.38	7.49	4.23	33.47	20.61	7.62

2.4.2. Progress Summary of Road and Structural Works for KU 03-R

Table 14: Progress Summary of Road Works for KU 03-R

Description	Total Length (km)	Up to November 2020 (km)	December 2020 (km)	Cumulative (km)	Next Month Target (km)
Embankment	41.13	22.27	1.31	23.58	4.30
Subbase	41.13	18.33	2.07	20.40	5.30
Shoulder	92.78	9.84	2.52	12.36	7.54
A.B.C	41.13	15.08	3.11	18.19	5.30
Prime	41.13	14.87	2.09	16.96	4.97
Asphalt	41.13	6.77	8.27	15.04	8.51

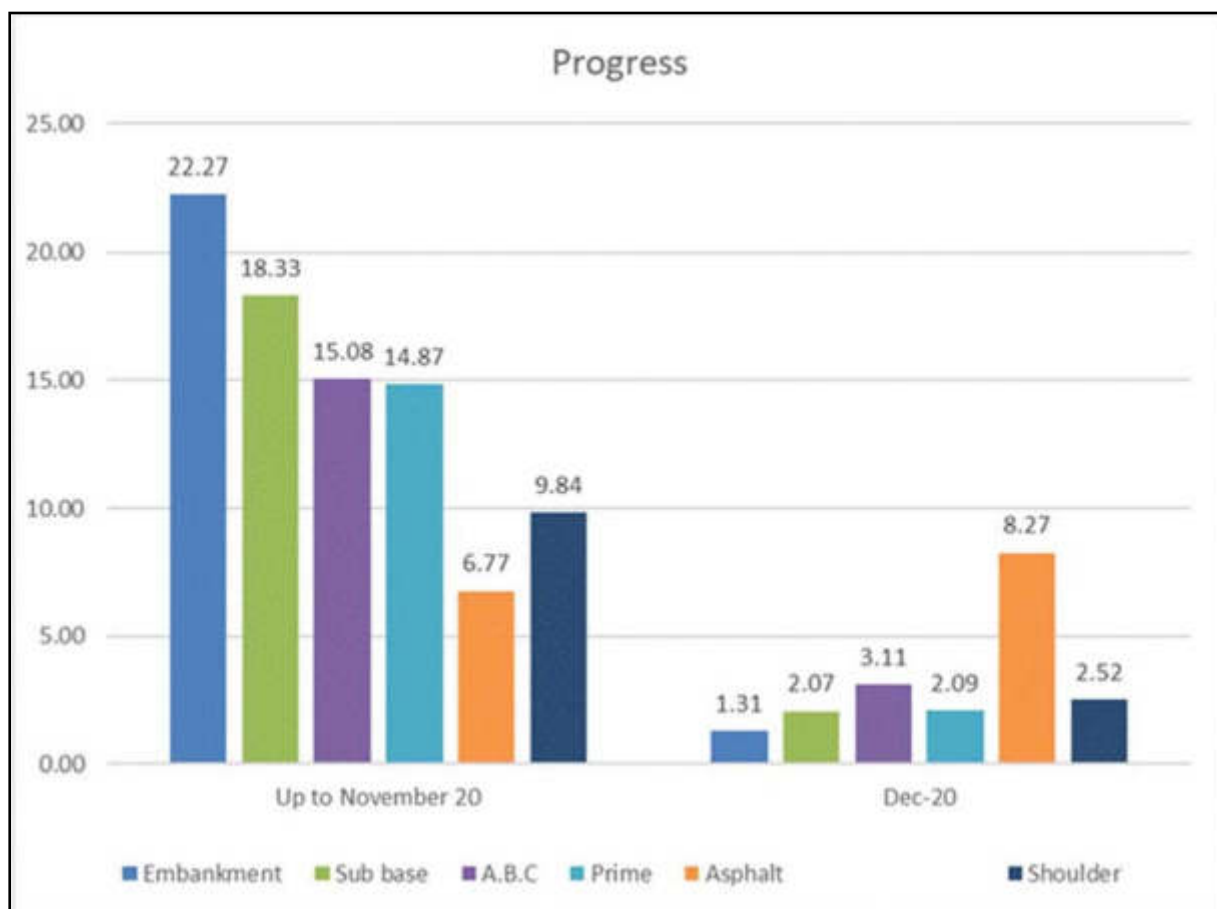


Figure 11. Chart illustrating progress summary of Road Works for KU 03-R

Table 15: Progress Summary of Structural Works KU 03-R

REHABILITATION/IMPROVEMENT OF RURAL ROADS IN THE KURUNEGALA DISTRICT - KU3-R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Road ID	Total Culvert	Culvert Condition Report		New Culvert		Reconstruction Culvert			Redecking Culvert			Widening Culvert									Cleaning & Repairing of Culvert			Remarks																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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2.5 : Contract KU 04 – Contractor VV Karunaratne & Company

The Contract Package KU 04 consists of 12 roads totaling 105.83 km and the accepted contract value is LKR 2,091,174,540.00. As of July 2019, they have abandoned the site and they have closed their Site offices with only minor staff. All the machineries from the site have been removed by the Contractor without the consent of the Engineer or the Employer. The Engineer has recommended that the Client exercise their rights in issuing Sub Clause 15.2 – Termination Notice to the Contractor.

This project has been TERMINATED through letter Ref.No.: RDA/ADB/iROAD/GEN dated on 13.11.2019.

Table 16: Package KU 04 Progress at Termination

Contract Package	Physical Progress at Termination	Financial Progress at Termination
KU-4	55.44%	45.62%

2.5.1: Status at the Termination – KU 04

C. KU 04 - Road works

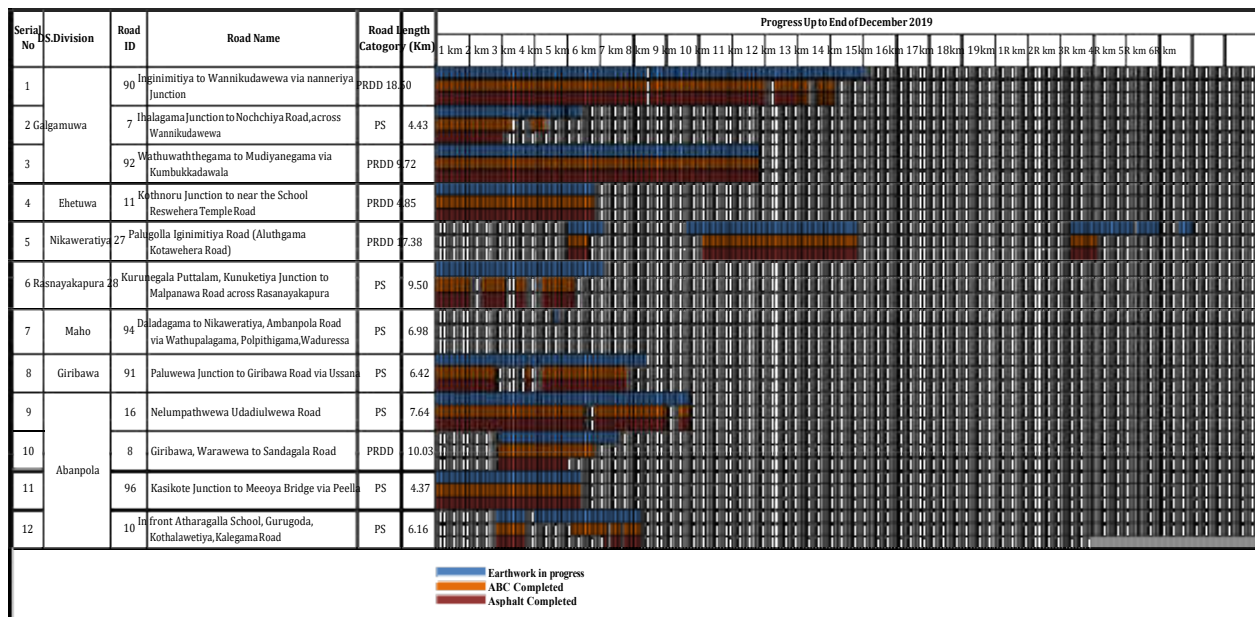


Figure 12: Illustrating progress (km) of Road Works at time of termination for KU 04

D. KU 04 - Structures

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert									Cleaning & Repairing of Culvert		
													LHS			RHS			Both Side			Total Nos.	Completed	In progress
	Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress									
7	15	15		1			4	1	1	3	3		1	1		1	1		2	2	0	3		
8	28	28		3	3		2	1					1	1		3	1		1	1		11		
10	18	18		2	2		3	3														11	3	
11	25	25		3	2		3	3					1	1								12	7	
16	27	27		2	2		6	6		1	1		2	2								15	12	
27	45	45					8	7	1	1	1		2	1		3	3					37	6	
28	48	48					9	3	1	1			2			3			2		1	34		
90	48	48		5	4	1	9	6													42	7		
91	20	20		1		1	4	4								2	2		3	3		16	7	
92	42	42		1	1		10	10		7	7		1	1		2	2		7	7		23	23	
94	28	28		1			4						2									25		
96	19	19		2	2								1	1		1	1					9	6	
Page Total	363	363	0	21	16	2	62	44	3	13	12	0	13	8	0	15	10	0	15	13	1	238	74	0

Figure 13: Figure illustrating progress (km) of Road Work at time of termination for KU 04

All Flood Damages have been rectified by the PU 01 Contractor due to the abnormal heavy rain during the 3rd week of December 2019.

2.5.2: Emergency works in KU 04 Package (Road ID 27 & 28)

The Employer has decided to do the necessary works to motorable the road ID 27 & 28 due to the very bad condition of the roads and huge pressure from the publics. MAGA and KDAW have been selected as a performing Contractor in iRoad Project to implement the construction works with negotiation the cost which have to be involve. Cost proposals submitted for Road IDs 27 & 28 were reviewed by the Engineer and forwarded to the Employer for necessary approval.

In the meantime, Engineer has instructed to the Contractors to commence the permeant works as discussed and agreed with all parties (Employer, Engineer and Contractor). Inauguration ceremony of the commencement of above two roads were done with attending Honourable Minister of Roads and Highways, Mr. Johnston Fernando and Project Director (NWP) iRoad Project, Mr. R.M.P. Rathnayake on 14th of December 2019. The Contractors are continuing the works successfully. Status of the ongoing works are as follows.

2.5.3: Variation Status Road ID 27 (MAGA) & Road ID 28 (KDAW)

1. Initial & Routing maintenance from Ch. 00+000 km to Ch.17+500 km and rehabilitation and improvement from Ch. 00+000 km to Ch. 08+500 km on Palugolla Ingimitiya Road (RD ID 27) in KU 04 – Variation to Contract Package KU 01 amounting of Rs. 256,882,455.15 has been approved.
2. Initial & Routing maintenance from Ch. 00+000 km to Ch. 09+500 km and rehabilitation and improvement from Ch. 04+200 km to Ch. 07+500 km on Kanuketiya junction to Malpanawa across Rasnayakepura Road (RD ID 28) in KU 04 – Variation to Contract Package KU 02 amounting of Rs. 117,432,785.85 has been approved.

Progress of Road ID 27 (MAGA) & RD ID 28 (KDAW)

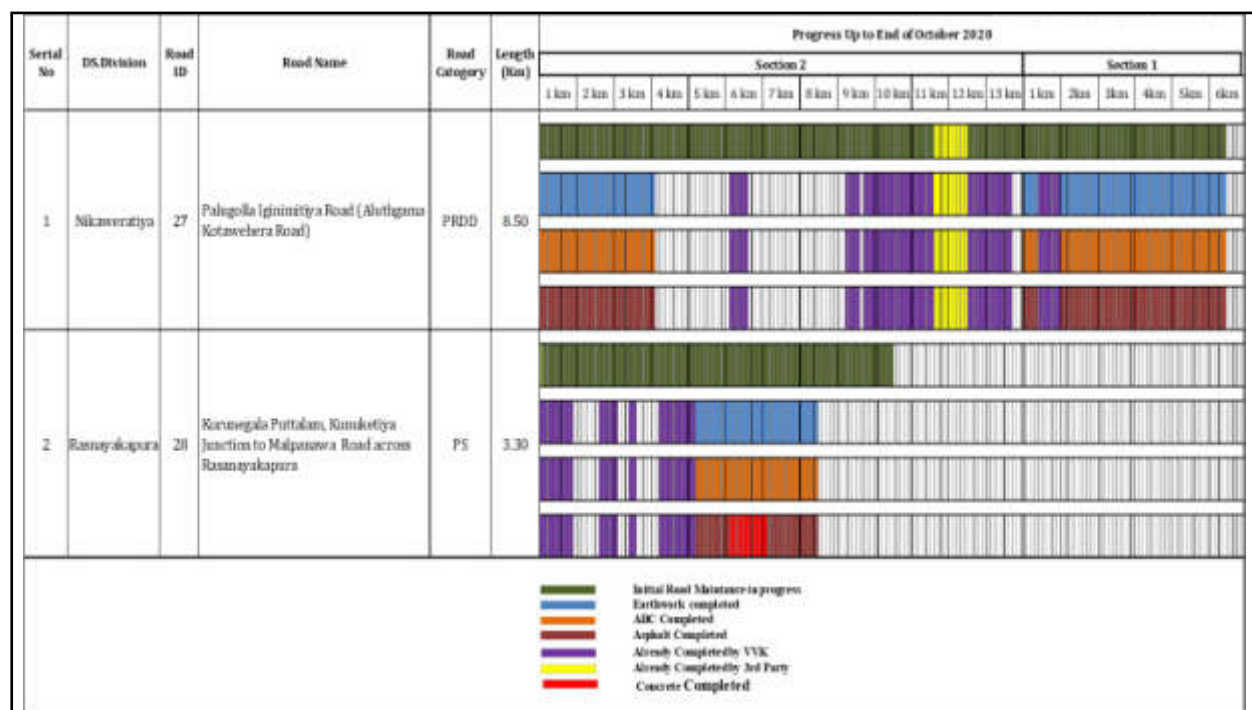


Figure 14: Illustrating progress up to end of October 2020 for Road ID 27 & 28

2.5.4: Progress Summary of Road Works in Rd ID 27 & 28 (Under Variation)

(A) Road ID 27: Work on Road ID 27 has been completed and handed over to the Employer on the 21st of August 2020.

(B) Road ID 28: Work on Road ID 28 has been completed and handed over to the Employer on the 21st of October 2020.

2.6: Contract KU 05 – Contractor Ranken Railway Construction Co. Ltd.

The Contract Package KU 05 consists of 17 roads totaling 99.85 km and the accepted contract value is LKR 1,996,560,050.43. As of October 2018, they have abandoned the site and they have closed their Site offices with only minor staff. From November 2018 onwards no staff is available on site and the contractor's site office is still closed. All the machineries from the site have been removed by the contractor without the consent of the Engineer or the Employer. The Engineer has recommended that the Client exercise their rights in issuing Sub Clause 15.2 – Termination Notice to the Contractor.

This project has been TERMINATED through letter Ref. No.: RDA/ADB/iROAD/GEN dated on 12.02.2019 and the effective date, by which the contractor has to vacate the site is on the 26th of February 2019.

The Employer has awarded the contract to Finite Lanka (Pvt.) Ltd and Letter of Acceptance has been issued on 22nd of January 2020. Contractor has accepted the same. KU 05 has been renamed as KU 05 – R.

Table 17: Progress at Termination of Package KU 05

Contract Package	Physical Progress at Termination	Financial Progress at Termination
KU 05	37.23%	41.27%

2.6.1: Status at Termination – KU 05

E. KU 05 Road works

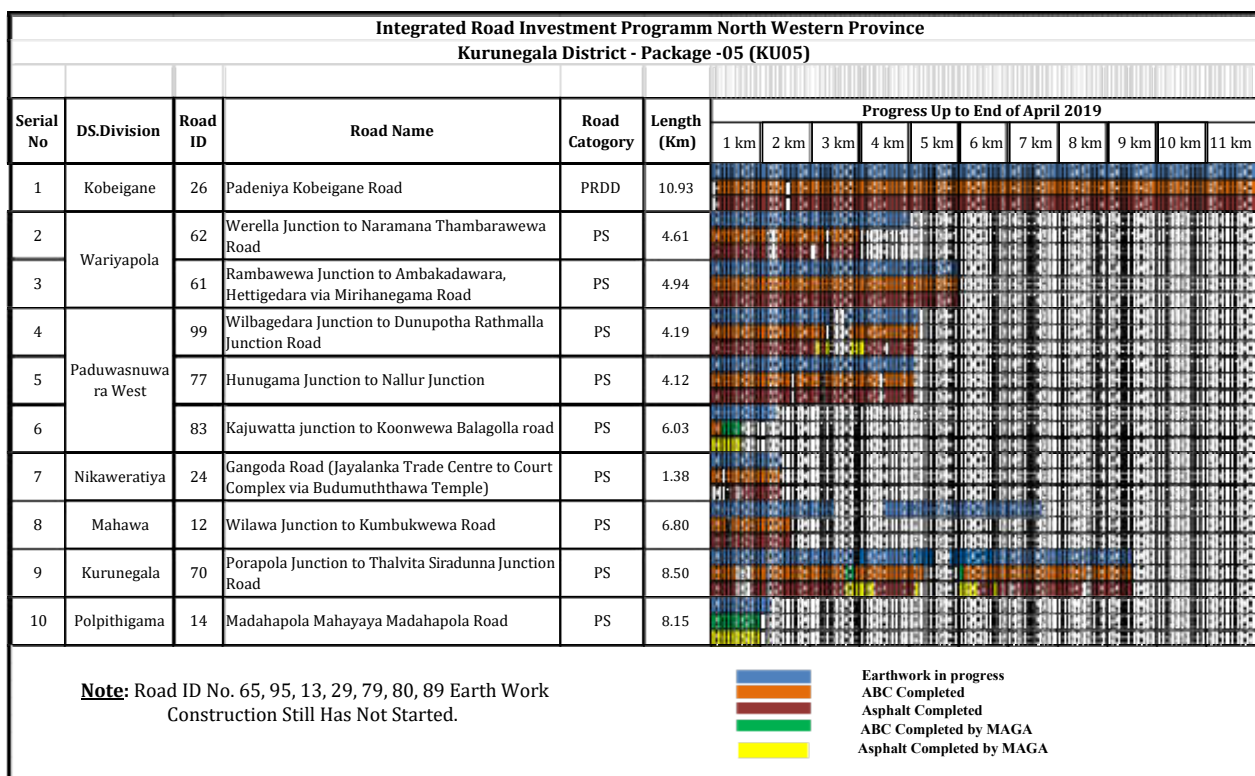


Figure 15: Illustrating progress (km) of Road Works at time of Termination for KU 05

F. KU 05 Structures work

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert									Cleaning & Repairing of Culvert		
	Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	LHS			Both Side			RHS			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
12	26	26					6		2				2			3		1	3		1	11		
13	41	41		1			5											1				34		
14	35	35					14															21	2	
24	9	9																	1			8	3	
26	28	28					6	4														22	1	
29	36	36		1			21	2	1													14	1	
61	21	21					2	2					4	4		4	3		1	1		10	3	
62	22	22		2			7	3					2	2		1			2	1		8	6	
65	11	11					2			1			3			3			2					
70	39	39					13	9	2	1			5	5		9	6		3	2		9	1	
77	17	17					8	6		1			2	1		1	1		1			4	1	
79	28	28					8						3			7						10		
80	19	19		1						2									1			15		
83	22	22					7						1						2			12		
89	14	14					1						1									12		
95	14	14					6			1						1			2			4		
99	24	24					6	3					2						2	2		14	9	
Page Total	406	406	0	5	0	0	112	29	5	6	0	0	25	12	0	29	10	1	21	6	1	208	27	0

Figure 16: Illustrating the termination status for road Structures work in project KU 05

2.7: Contract KU 05-R – Contractor Finite Lanka (Pvt.) Ltd

2.7.1: Contract KU 05-R – Current status

All the approved designs, Survey details, test reports, other relevant documents (Environmental and Social related) etc. which are already available were handed over to the new Contractor for their review and acceptance.

Package No.	Contractor	Accepted Contract Amount	Date of LOA	Date of Commencement	Land handed over to Contractor	Advance Payment Guarantee In place	Performance Security in place	Advance Payment Certified by Engineer	Initial Clause 8.3 Program and Method Statement	Clause 8.1 Order to commence issued	Contractor Project Manager (CPM) in place
KU5-R	Finite Lanka	2,296,136,981.33	22/1/2020	20/02/2020	✓	✓	✓	✓	✓	✓	✓

Figure 17: The current status of contract KU 05-R

Physical S-Curve of KU 05-R

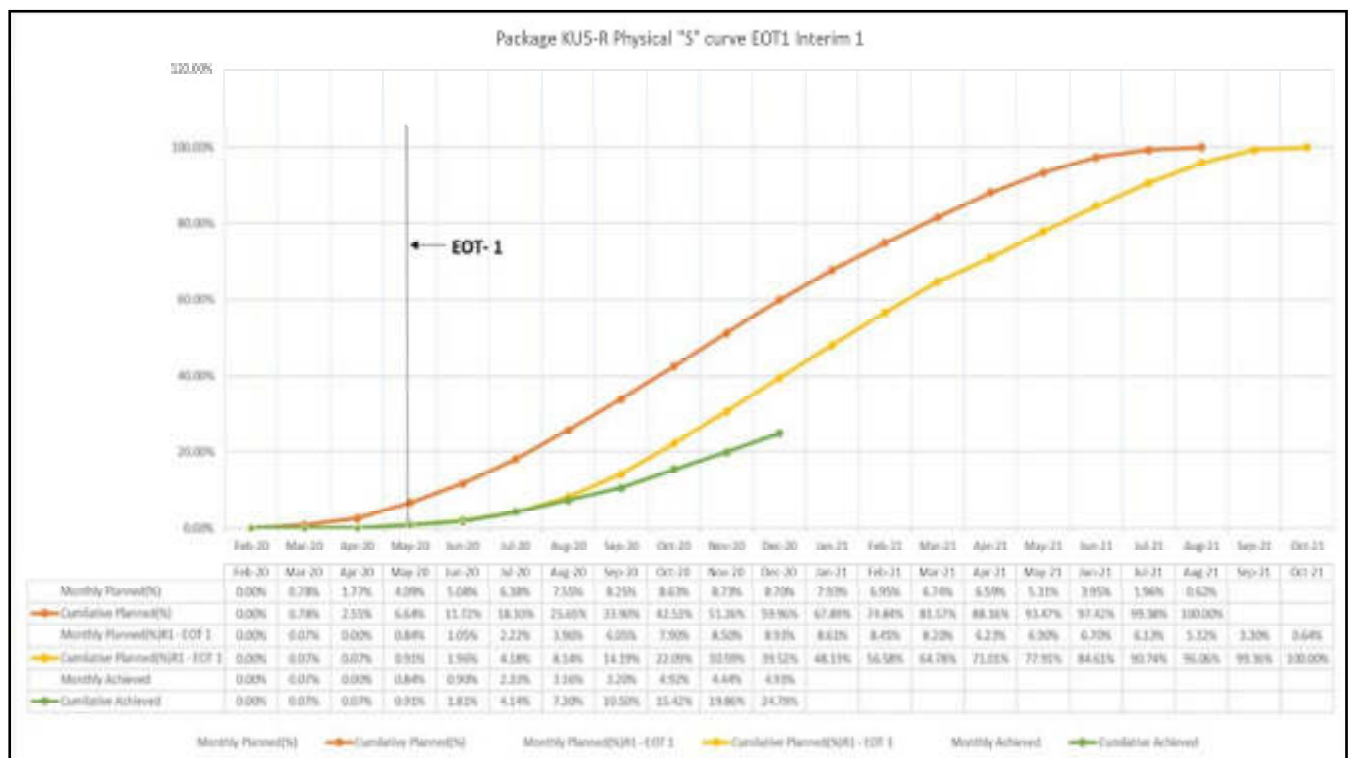


Figure 18: Graph of Physical Progress [percentage] vs Time [month], illustrating the physical 'S' curve

Table 18: KU 05-R Physical progress as per the revision (EOT1 – Interim 1)

Package No	Cumulative Progress up to end of November 2020 (%)		Monthly Progress December 2020 (%)		Cumulative Progress up to end of December 2020 (%)		Next Month Target (%)
	Planned	Actual	Planned	Actual	Planned	Actual	
KU5-R	30.59	19.86	8.93	4.93	39.52	24.79	8.61

Financial S-Curve of KU 05-R

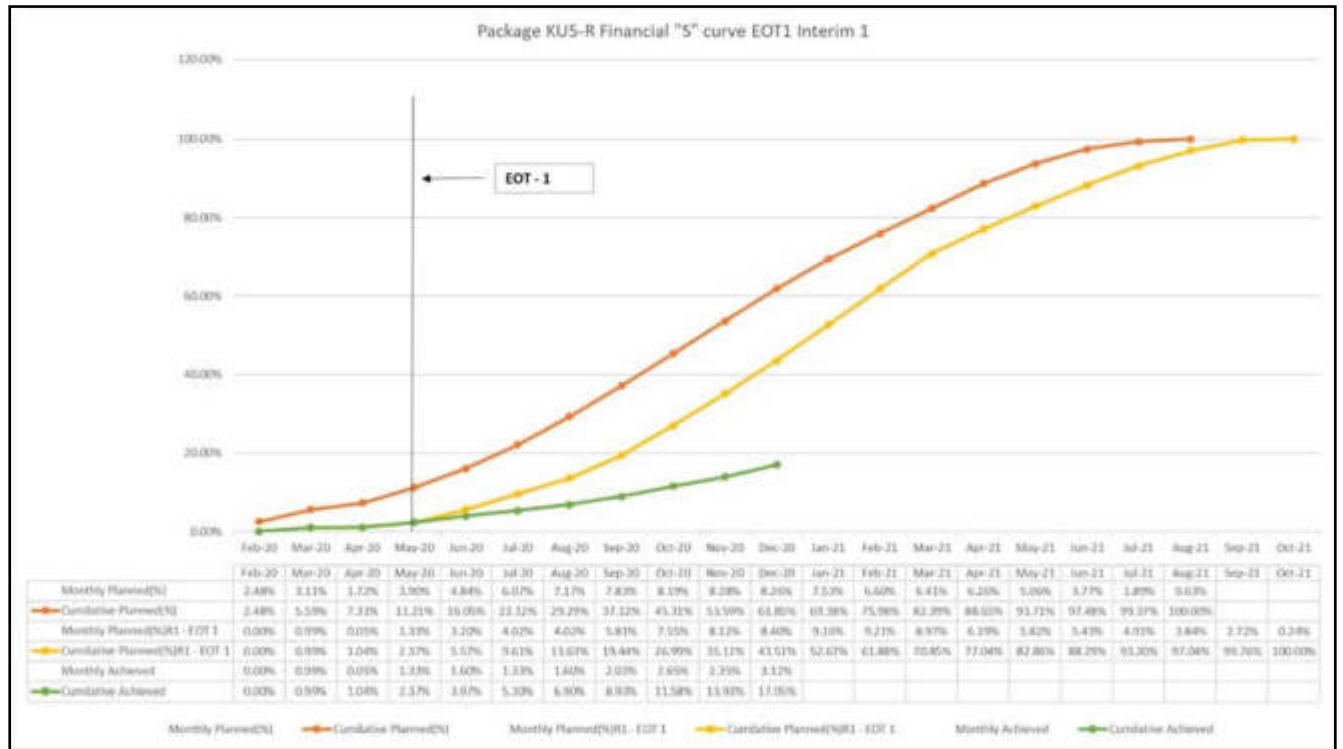


Figure 19: Graph of Financial progress [percentage] vs Time [month] in KU 05-R, illustrating financial 'S' curve.

Table 19: KU 05-R Financial Progress as per the revision (EOT1 – Interim 1)

Package No	Cumulative Progress up to end of November 2020 (%)		Monthly Progress December 2020 (%)		Cumulative Progress up to end of December 2020 (%)		Next Month Target (%)
	Planned	Actual	Planned	Actual	Planned	Actual	
KU5-R	35.11	13.93	8.40	3.12	43.51	17.05	9.16

2.7.2: Progress Summary of Road and Structural Works – KU 05-R

Table 20: Progress Summary of Road Works of KU 05-R

Description	Total Length (km)	Up to November 2020 (km)	December 2020 (km)	Cumulative (km)	Next Month Plan (km)
Embankment	63.13	11.47	1.57	13.04	8.80
Sub base	63.13	8.79	2.36	11.15	8.50
Shoulder	100.08	24.29	2.68	26.97	12.00
A.B.C.	63.13	7.68	2.46	10.14	6.00
Prime	63.13	6.34	3.42	9.76	6.15
Asphalt	63.13	6.21	3.19	9.40	5.97

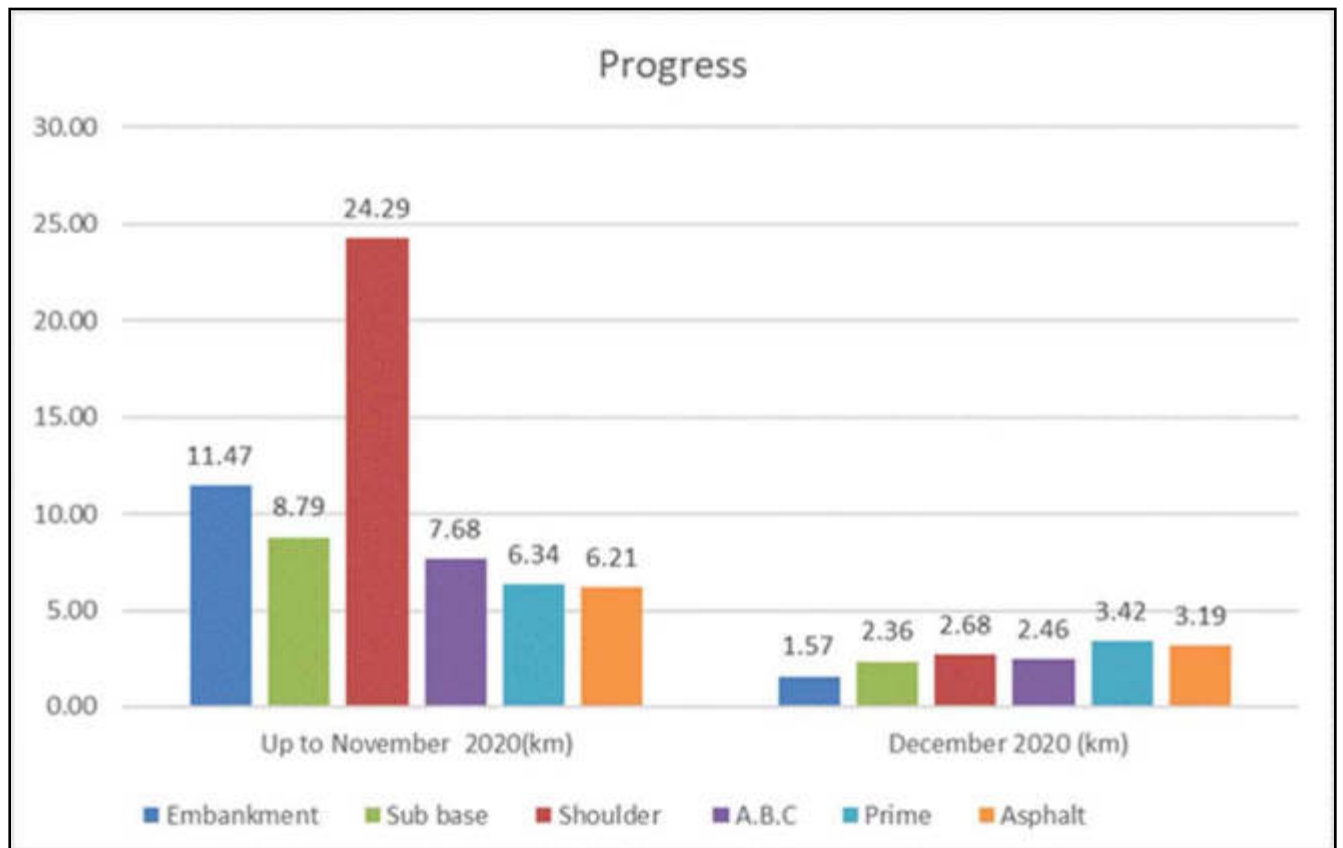


Figure 20: Chart of Road works progress in KU 05-R

Table 21: Progress Summary of Structural Works KU 05-R

REHABILITATION/IMPROVEMENT OF RURAL ROADS IN THE KURUNEGALA DISTRICT - KU5-R																								
SUMMARY OF PROGRESS-STRUCTURAL IN UP TO END OF December 2020																								
Road No.	Total Nos to be Improvement	Culvert Condition Report		New Culvert		Reconstruction Culvert		Redecking Culvert		Widening Culvert									Top half Encasement					
		Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	LHS			Both Side			RHS			Total Nos.	Completed	In progress
	Total Nos.												Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress				
12	22		26				11									1			2			8		
13			41	1			8						5			1			4					
14	9		35				9																	
24	0		9																					
26	2		28				1	1		1	1													
29	26		34	3	2		16	12	2							1	1					6	3	3
61	1		21													1	1							
62	9		22	2			6	1	4												1			
65	8		11				7	1	4										1	1				
70	7		39				5		3												2			
77	4		17				3	3											1					
79	23	28					10	10					1	1		8	8		1	1		3	3	
80				1			8									1								
83	12	22					9	5	2										3	1	1			
89																								
95	12		15	3	3		8	6	2										1	1				
99							4									2								
Page Total	135	50	298	10	5	0	105	39	17	1	1	0	6	1	0	15	10	0	13	4	1	20	6	3

Note: The join Site inspection for the structural works is underway in the roads of KU 05-R and some roads have been finished and the details as shown in above table and for the balance roads, details will be updated at end of this inspection.

2.8: Contract PU 01 – Contractor Ranken Railway Construction Company Ltd.

The Contract Package PU 01 consists of 11 roads totaling 90.56 km and the accepted contract value is LKR 1,706,320,523.61. The Contractor has completed the work for its intended purpose for the road users. 6 roads yet to be handed over out of 11 roads. They are attending for the balance works which included in snag list those are to be completed and will be informed soon for the taking over inspection.

Statement at Completion is under preparation and it will be submitted to the Engineer in February 2020.

Table 22: Contract PU 01 - Physical Progress

Progress	Cumulative Status as of 29 th of February 2020	
	Target (%)	Actual (%)
Physical	100.00%	100.00%

Table 23: Contract PU 01- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
01	08	Sirambiadiya,4th mile post, Manaweriya, Sellakandal area	PS	7.28
02	11	Wanathavilluwa - Moroththawa School Road	PS	7.07
03	12	Eluwankulama - Gangewadiya Road	PRDD	6.61
04	14	Thehili Aththala Internal Road	PRDD	3.46
05	15	Kandakadu- Palliwasalthurai Road	PRDD	7.43
06	01	Mahauswewa-Waththegedara -Thalgaswewa	PRDD/PS	12.13
07	05	Welewewa Garment junction- Tharanagahawewa- Rajawewagama Road	PS	12.01
08	06	Internal road at Nawagaththegama - Galgamuwa Road	PRDD	2.98
09	07	Saliyawewa junction to Neelabemma Road	PRDD	13.00
10	44	Thabbowa, Karuwalagaswewa, Outer Circle	PRDD	7.06
11	43	Mailankulama-Thabbowa Temple junction	PRDD	13.11

- EOT-1 up to 30 April 2019 is approved by the Employer.
- EOT-2 up to 27 July 2019 is approved by the Employer.
- EOT-3 up to 29 October 2019 is approved by the Employer.
- EOT-4 Engineer has recommended it up to 15th of November 2019 and submitted to the Employer.
- EOT under Ex-gratia – Contractor has submitted their last EOT up to the 28th of February 2020 as Ex-gratia basis and has been approved by the Employer.

2.9: Contract PU 02 – Contractor V. V. Karunaratne & Company

This contract has been **TERMINATED** through letter Ref. No.: RDA/ADB/iROAD/GEN dated on 19th of July 2019 and the effective date, by which the Contractor has to vacate the site is on the 02nd of August 2019.

Table 24: Progress at Termination – PU 02

Contract Package	Physical Progress at Termination	Financial Progress at Termination
PU 02	40.58%	45.05%

2.9.1: Status at Termination – PU 02

G. Roads Works

Serial No	DS.Division	Road ID	Road Name	Road Category	Length (Km)	Progress Up to End of Progress Up to End of December 2019												
						1 km	2 km	3 km	4 km	5 km	6 km	7 km	8 km	9 km	10 km	11 km	12 km	13 km
1	Pallama	3	Adammana Junction to Madawakkulama Road	PS	9.78													
2	Mahakubukkadawala	4	Mahakubukkadawala Kottukachchiya Road	PRDD	12.34													
3	Puttalam	9	Madyama Attavilluwa to Kiula Road	PS	3.67													
4	Arachikattuwa	26	Arachikattuwa to Pallama via Adippala	PRDD	10.91													
5		27	Nalladurankattuwa to Wendakaduwa via Aththanaganyaya	PRDD	12.52													
6	Chilaw	29	Thiththakade to Manuwangama via Thissogama Co-operative Shop	PRDD	5.26													

Note: Road ID No. 13, 2, 45, 28, 30 Earth work Construction Still Has Not Started.

■ Earthwork in progress
■ ABC Completed
■ Asphalt Completed

Figure 21: Completed Road Works at time of termination for PU 02

H. Structures

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert						Cleaning & Repairing of Culvert		
	Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	LHS			RHS			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
2	26	26		5			7						3			2			11		
3	43	43		1	1		14	12		1	1		13	3	1	10	2	1	14	11	
4	50	50					10	5	1	1			4	1	1	3	1	1	35		
9	7	7		1	1		4	3	1										2		
13	12	12		4		1	2						4	1	2	4	1	2	19		
26	29	29		2	2		7	6								1	1		2	19	
27	46	46					5	2		1		1	7	5	2	8	6	2	31	31	
28	8	8					3						1			1			3		
29	21	21		1			12	5					3			2			4		
30	6	6					3						2			1			1		
45	8	8					1						4			4			3		
Page Total	256	256	0	14	4	1	68	33	2	3	1	1	41	10	6	36	11	6	125	61	0

Figure 22: Progress of Structural Works at time of termination for PU 02

2.9.2: Emergency Balance Work in PU 02 Package (Road IDs 04, 09 & 26)

All the Emergency Balance Works have been completed by the PU 01 Contractor.

2.10: Contract PU 03 – Contractor V. V. Karunaratne & Company

The Contract Package PU 03 consists of 15 roads totaling 48.37 km and the accepted contract value is LKR 1,210,355,904. June 2019, they have abandoned the site and they have closed their Site offices with only minor staff. All the machineries from the site have been removed by the Contractor without the consent of the Engineer or the Employer. The Engineer has recommended that the Client exercise their rights in issuing Sub Clause 15.2 – Termination Notice to the Contractor.

This project has been **TERMINATED** by the Employer through letter Ref.No.:

RDA/ADB/iROAD/GEN dated on 13.11.2019.

Table 25: Progress at Termination – PU 03

Contract Package	Physical Progress at Termination	Financial Progress at Termination
PU 03	60.00%	57.40%

2.10.1: Status at Termination – PU 03

I. Road Works

Serial No	DS.Division	Road ID	Road Name	Road Category	Length (Km)	Progress Up to End of December 2019																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						1 km	2 km	3 km	4 km	5 km	6 km	7 km																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
1	Madampe	31	Madampe Ihalagama Road	PS	1.69																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																</

J. Structures

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert						Cleaning & Repairing of Culvert			Concrete Line Drain			Retaining Wall			Cross Drain		
	Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	LHS			RHS			Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress												
16	10	10	-	-	-	-	1	1	-	-	-	-	5	5	-	1	1	-	6	4	-	-	-	-	-	-	-	-	-	-
17	16	16	-	2	-	-	3	1	1	-	-	-	2	1	1	1	-	-	9	1	-	-	-	-	-	-	-	-	-	-
18																														
21	20	20	-	2	-	-	8	5	1	-	-	-	1	1	-	1	1	-	10	-	-	-	-	-	-	-	-	-	1	-
22	8	8	-	-	-	-	3	-	2	-	-	-	1	-	-	2	1	-	3	-	-	-	-	-	-	-	-	-	-	-
24	5	5	-	-	-	-	1	-	-	-	-	-	2	-	-	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-
31	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-
32	8	8	-	-	-	-	4	3	1	-	-	-	-	-	-	1	-	-	4	2	-	-	-	-	-	-	-	-	-	-
33	7	7	-	1	-	1	1	-	-	-	-	-	-	-	-	-	-	-	5	1	1	-	-	-	-	-	-	-	-	-
34	7	7	-	-	-	-	3	-	-	1	-	-	2	-	-	2	-	-	1	-	-	-	-	-	-	-	-	1	-	-
36	8	8	-	2	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
38	5	5	-	-	-	-	-	-	-	-	-	-	2	-	-	3	-	2	2	-	-	-	-	-	-	-	-	-	-	-
39	7	7	-	-	-	-	1	-	1	-	-	-	1	1	-	1	1	-	4	-	-	-	-	-	-	-	-	-	-	-
40	13	13	-	1	-	-	2	2	-	-	-	-	3	1	-	4	3	-	7	-	-	-	-	-	-	-	-	-	-	-
41	6	6	-	1	-	-	-	-	-	-	-	-	1	-	-	1	-	-	4	-	-	-	-	-	-	-	-	-	-	-
42	3	3	-	-	-	-	-	-	-	-	-	-	1	-	-	2	1	1	1	-	-	-	-	-	-	-	-	-	-	-
Page Total	125	125	0	9	0	1	30	12	6	1	0	0	21	9	1	21	8	3	63	10	1	0	0	0	0	0	0	2	0	0

Figure 24: Progress of Structural Works at time of termination for PU 03

2.10.2: Emergency Balance Work in PU 03 Package (RD IDs 17, 21, 22, 34 & 38)

All the Emergency Balance Works have been completed by the Contractor of PU 01.

2.11: Present Status of CRCs - North Central Province

2.11.1: Contract AP 01 - Contractor Maga Engineering PLC

The Contract Package AP 01 consists of 17 roads totalling 85.39 km and the accepted contract value is LKR 1,656,915,760.00. Please refer to the **Table 06** for further details. All the major road works completed in April 2019 and SAC is submitted to the Employer on 24th of August 2019. PBM in progress.

Table 26: Contract AP 01- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
1	1	Thalawa - Jayagaga 149 Hagurankethagama	PRDA	10.24
2	2	Eppawala Police Junction Jaya Ganga Rotawewa	PRDA	2.89
3	3	15 Kanuwa - Kiriemunukole - Mawathawewa	PS	2.72
4	10	Mahawelithenna Ralapana Janapadaya Road	PS	5.27
5	12	Pahalaragahawewa Katupathwewa	PS	3.00

Serial No.	Road No.	Road Name	Road Category	Length / km
6	36	Yaya 4 Junction Bogas Handiya Kiralapetiawa Halambewewa Road	PRDA	11.21
7	37	Maningamuwa Junction Ihala Oyamaduwa Nawodagama Road	PRDA	6.00
			PS	7.19
8	38	4 Ela Junction Mankadawala Jaffna Road	PS	4.49
9	39	4 Ela Junction Parasangaswewa Hospital Road	PS	4.47
10	40	Saliyawewa Mawatha Thannayakulama Road	PS	2.33
11	41	Sucharithagama Yahalegam Temple Road	PS	4.50
12	43	CEB Deport Pahala Keerikkulama -Keerikkulama Nochchaduwa Road	PS	3.67
13	45	Abayepura Housing Scheme to Tammennapura	PS	3.20
14	46	Nagasena Mawatha	PRDA	1.94
15	61	9 Ela Janahitha Junction 7 Ela Thuruwila	PRDA	4.76
16	63	Rathmale Nachchaduwa	PRDA	2.84 0.30
17	65	Nelubuwa Bidu	PS	4.37
Total			-	85.39

2.11.2 : Contract AP 02 - Contractor Maga Engineering PLC

The Contract Package AP 02 consists of 12 roads totaling 76.85 km and the accepted contract value is LKR 1,824,178,003.20. Please refer to the **Table 06** for further details. All the major road works were completed in January 2019 and SAC is submitted to the Employer on 3rd of September 2019. PBM in progress.

Table 27: Contract AP 02- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
1	19	Elagamuwa Junction Canal Road Hora Pola New Mosque Road	PS	3.27
2	23	Dabawatana Road	PS	4.24
3	26	Balaluwewa Karawilagala Road	PS	3.83
4	27	Kudawatagala Dambuluhamillewa Road	PRDA	4.48

Serial No.	Road No.	Road Name	Road Category	Length / km
		Kudawatagala Dambuluhamillewa Road	PS	4.87
5	28	Ulpothagama Junction Morotthegama Road	PS	4.78
6	66	Thammennawawa Junction Kumbukwewa Siyabalawewa Hunupalagama Road	PRDA/PS	10.98
7	67	Kalawewa Aukana Road	RDA	4.53
8	68	6 Ela Walpaluwa to Kagama 2 Ela Road	PS	4.72
9	69	Mahailuppallama Farm Akkara 100 to Senapura Katiyawa Road	PS	4.94
10	47	Thambuththegama Rajanganaya Road	PRDA	16.86
11	48	Ayurvedic Hospital Nawagattegama Road	PRDA	3.38
12	49	Eriyagama Paindakulama Road	PRDA	5.97
Total			-	76.85

2.11.3: Contract AP 03 - Contractor Maga Engineering PLC

The Contract Package AP 03 consists of 12 roads totaling 82.66 km and the accepted contract value is LKR 1,492,772,165.28. Please refer to the **Table 06** for further details. All the major road works were completed in April 2019 and SAC is submitted to the Employer on 28th of August 2019. PBM in progress.

Table 28: Contract AP 03- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
1	5	Matale Junction Samagipura Road	PS	1.72
			MC	0.92
2	6	Kurundankulama School via Kalaththewa Matale Junction Road	PS	2.83
3	7	Mahakanadarawa Left Bank Elakanda Road	PRDA	5.40
4	8	Kannattiya Ashokapura Road	PS	2.76
5	9	Welankulama Junction Alappamkulama Road	PRDA	7.77
6	70	Katukeliyawa Ihala Halmillewa Sivalakulama Road	PRDA	5.37
7	24	Palugaswewa Mahakekirawa Road	PRDA	9.12

Serial No.	Road No.	Road Name	Road Category	Length / km
8	25	Laksirigama Puwakpitiya Kudarambewewa Road	PS	6.62
9	71	Palugaswewa -Udakadawala	PS	1.70
10	29	Yakalla Palugollagama Upuldeniya Road	PS	12.12
11	30	Galkulama Sivalakulama Yakalla Road	PRDA	7.82
12	60	A-9 Road Labunoruwa Muriyakadawala Road	PRDA	18.51
Total			-	82.66

Road ID 29 – Macadam surface for 3 bunds (1.528 km) will be carried out during the DNP.

2.11.4: Contract AP 04 - Contractor Maga Engineering PLC

The Contract Package AP 04 consists of 19 roads totaling 90.20 km and the accepted contract value is LKR 1,635,133,956.00. Please refer to the **Table 06** for further details.

All the road works were completed by December 2018 and SAC is submitted to the employer on 29th of June 2019. PBM in progress.

Table 29: Contract AP 04- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length/ km
1	50	40 Kolaniya Bus Halt Nawagammanaya Road	PS	2.85
2	51	Thelmola Junction Milankulama AB Gammanaya Puhulagewewa Balaya Junction Road	PS	3.45
3	52	Mailgashandiya Daluggala Jayanthi Road	PS	3.49
4	53	Ruwanpura School Road	PS	1.03
5	55	Kobbekaduwa Road	PS	1.91
6	56	4th Post Thonigala Bridge Road	PS	1.61
7	57	Kanugahawewa Herathhalmillewa Road	PS	8.51
8	59	Halmillawatiya Yakawewa Road	PS	3.55
9	33	Elapathwewa Ritigahawewa Road	PS	3.81

Serial No.	Road No.	Road Name	Road Category	Length/ km
10	34	Kapugollewa Maradanmaduwa Wagollewa Road	PRDA	4.18
11	35	Nanumillewa Junction to Vilewewa Road	PS	2.73
12	16	A9 Karapikkada Kurukkandegama Kabithigollewa	PRDA	6.05
13	17	Puhudiula Junction to Galkadawala Road	PRDA	3.88
14	18	Kirigalawewa Unagaswewa Moragoda School Road	PRDA	4.93
15	31	Kahatagasdigiliya Kainattama Road	PRDA	12.81
16	32	Rathmalgahawewa Road Kurukkuragama Junction to Hettikattiya Road	PS	7.00
17	13	Mahakanadarawa Thabowa Pansala Junction to Welioya Junction	PRDA	4.21
18	14	Ihalagama Junction Muslim Diulwewa	PRDA	8.33
19	15	Pihibiyagollewa 9th Post Ambagaswewa Road	PRDA	5.87
Total			-	90.20

2.11.5: Contract PO 01 - Contractor Maga Engineering PLC

The Contract Package PO 01 consists of 18 roads totaling 50.76 km and the accepted contract value is LKR 1,158,532,987.42. Please refer to the **Table 07** for further details.

All the major road works completed by September 2018 and SAC is submitted to the Employer on 23rd of April 2019. PBM in progress.

Table 30: Contract PO 01- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length / km
1	1	Ihakuluwewa Village Road	PS	3.77
2	2	Ganageyaya Village Road	PS	3.63
3	3	Athtanakadawala Pokunugala	PS	3.25
4	4	Welankattuwa Village Road	PS	2.12

5	5	Sarubima- Segala Village Road	PS	2.62
6	6	Bakamuna -Damanayaya Village Road	PS	2.26
7	7	Sirikanduyaya Track 18 Village Road	PS	2.17
8	8	Orubendisiyambalawa Village Road	PS	1.75
9	9	Bisokotuwa-Konduruwawa	PS	1.87
10	10	Yaya 32 Temple - 33 Bisokotuwa Junction	PS	3.30
11	11	Athmalpitiya Junction -Laxauyana Siyabalagaswewa Junction	PRDA	4.70
12	12	Palugasdamana Senanayake Road	PS	1.21
13	13	Parakramasamuthra- Kalahagala Village Road	PRDA	5.24
14	14	Kadawalawewa Village Road Stage 01	PS	1.75
15	18	DI Channel- Vijawahapura Village Road	PRDA	4.27
16	20	Onagama Main Road- Galkiriya Cemetry	PS	3.14
17	21	Parakramasamudraya- Ambanganga Village Road	PS	2.06
18	22	Parakramasamudraya- Thkunu Ela Village Road	PS	1.65
Total			-	50.76

2.11.6: Contract PO 02 - Contractor Maga Engineering PLC

The Contract Package PO 02 consists of 25 roads totaling 73.36 km and the accepted contract value is LKR 1,483,692,044.52. Please refer to the **Table 07** for further details.

All the major road works completed by December 2018 and SAC is submitted to the Employer on 24th of June 2019. PBM in progress.

Table 31: Contract PO 02- All the Roads Handed Over to Client-RDA

Serial No.	Road No.	Road Name	Road Category	Length/ km
1	24	Hingurakgoda- 7th Mile's Post -Gallamuna Hingurukdamana	PRDA	4.12
2	25	Weerapura 317-Karathakade Junction	PRDA	3.98
3	27	BOP 317- Dalpalama	PRDA	1.29
4	28	BOP 316- Karuwalagas Junction -Chandanapokuna	PRDA	3.04
5	29	Patunagama Junction -Damwelmangada- Buthayaya	PS	3.48
6	31	Kubukkanaruwa- 127 Bawdarthgama	PS	1.50
7	72	Deberella Sudupalama-Gallamuna	PS	4.60
8	33	Track 12 Bridge -Nagarapura-Weligampura	PS	7.06
9	34	Yuthaganawa -Irrigation Junction- Dinisuru Junction	PRDA	3.04
10	35	Kusumpokuna- Pimpura	PRDA	3.51
11	36	Pimpura Pansalgodall Main Road- Sansugama 21 Division	PRDA	1.88
12	37	Meegaswewa- Wadigawewa	PS	3.08
13	40	Medirigiriya Town Internal Road	PS	1.88
14	41	Jayathugama Junction Meegollawa School	PS	3.46
15	42	Medirigiriya Water Tank- Mr. Vijayadasa's House	PS	2.23
16	44	Medirigiriya Kalagedi Palama- Bisobandaragama School	PS	2.55
17	73	Diulankadawela Aliwankuwa Junction	PS	3.13
18	45	Minneriya Central Collage Road	PS	3.05
19	46	Hathamuna Bridge-Nugagahadamana Road	PS	3.71

Serial No.	Road No.	Road Name	Road Category	Length/ km
20	47	Dora 2 Junction-Paluwewa	PS	1.81
21	48	Girithale Middle Road	PS	1.49
22	49	Hingurakgoda Airport-Vidyaloka School Road	PRDA	1.41
23	51	Batukotuwa Middle Road	PS	1.13
24	52	Minneriya Samagipura	PS	2.37
25	55	Hinguraka 4th Miles Post -Chandanapokuna Aliwanguwa	PS	4.56
Total			-	73.36

2.11.7: Contract PO 03 - Contractor TISSA-AMSK JV

The Contract Package PO 03 consists of 11 roads totaling 49.55 km and the accepted contract value is LKR 1,249,343,460.00. Please refer to the **Table 07** for further details.

All the major road works completed by October 2018 and SAC is submitted to the Employer on 15th of May 2019. PBM in progress.

Table 32: Contract PO 03- All the Roads Handed Over to Client-RDA

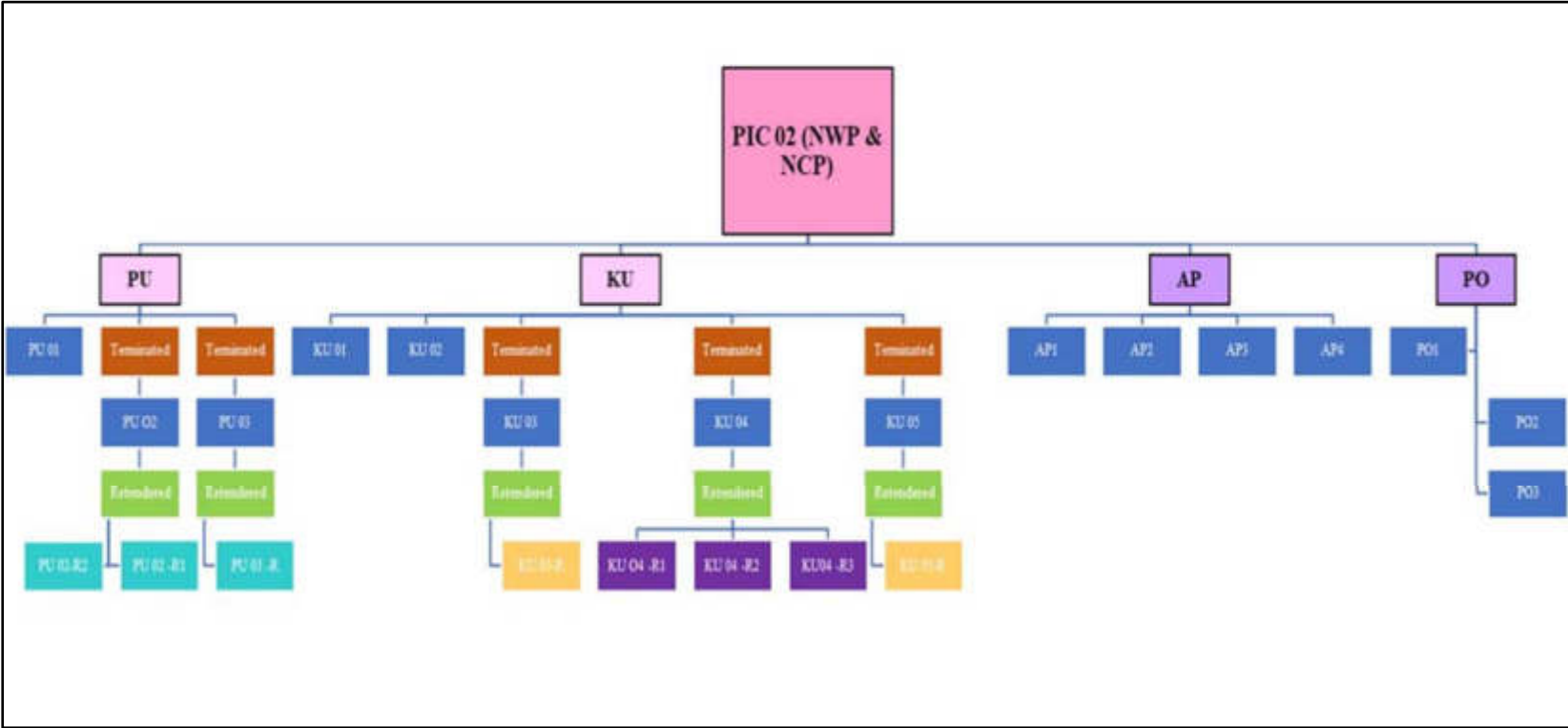
Serial No.	Road No.	Road Name	Road Category	Length/ km
1	57	Welikanda-Singhapura Road	PS	12.03
2	58	Athugala -Katuwanwila	PS	6.80
3	59	Ginidamana-Nelumwewa	PS	2.10
4	61	Mahadamanawewa Village Road	PS	3.02
5	62	Dimbulagala Junction-Bogas Wewa Village Road	PS	6.52
6	64	Manampitiya Hospital Road	PS	1.24
7	65	2nd Mile's Post-Seelapura	PS	1.47
8	66	Siripura Nuwaragala Village Road	PS	9.62
9	67	Aluthoya Junction - Village Road	PS	2.03
10	68	Dimbulagala Junction-Soruwila Village	PS	1.75

Serial No.	Road No.	Road Name	Road Category	Length/ km
11	71	Bandanagala-Bandanagala Village	PRDA	2.97
Total			-	49.55

Table 33: Summary of roads taken over

Province	Contract Package	Contractor	New completion date (EOT)	Total road length (KM)	No. of roads	No. of roads taken over
NCP	AP 01	MAGA Engineering PLC	30.04.2019	85.39	17	17
	AP 02	MAGA Engineering PLC	31.01.2019	76.85	12	12
	AP 03	MAGA Engineering PLC	30.04.2019	82.66	12	12
	AP 04	MAGA Engineering PLC	31.12.2018	90.20	19	19
	PO 01	MAGA Engineering PLC	02.10.2018	50.76	18	18
	PO 02	MAGA Engineering PLC	23.12.2018	73.36	25	25
	PO 03	Tissa – AMSK Construction	31.10.2018	49.55	11	11
NWP	KU 01	MAGA Engineering PLC	31.01.2019	83.29	16	16
	KU 02	KDAW-BMG JV	15.09.2019	100.47	19	19
	KU 03	Ranken Railway	23.07.2019	89.88	12	00
	KU 04	VVK Construction	30.09.2019	106.02	12	03
	KU 05	Ranken Railway	30.07.2019	99.85	17	00
	PU 01	Ranken Railway	29.10.2019	90.56	11	11
	PU 02	VVK Construction	30.09.2019	74.09	11	00
	PU 03	VVK Construction	10.07.2019	48.37	15	00
Total			N/A	1201.30	227	163

Chart 05: Distribution of the newly appointed Contractors for the re-tendered packages



3.0: Compliance with Environmental Safeguards requirements in the Loan Document

The environment component is the crucial part of the iRoad Program and the implementation of program should assure the Safeguards Policies of ADB (SPS) and Government of Sri Lanka. To ensure the program activities of road rehabilitation in accordance with these policies, the Environmental activities should be complied with the Loan Agreement of Tranche 1, 2, 3 and 4, updated FAM (updated in 2018) and EARF.

3.1: Compliance with Tranche 1, 2, 3 and 4

In accordance with the Appendix 6 of the FAM, “Tranche 3 will finance the second slice of five projects that were appraised under Tranches 1 and 2, namely (i) Project 1 in Southern Province, (ii) Project 2 in Sabaragamuwa Province and the Kalutara District of Western Province; (iii) Project 3 in Central Province; (iv) Project 4 in North Central Province; (v) Project 5 in North Western Province, and (vi) consulting services.” Therefore, the PIC 02 belonged to Tranche 3 at the beginning but now PIC 02 is in Tranche 4. Tranches 3 and 4 have been categorized as B consistent with tranches 1 and 2 according to the Updated FAM dated on 15th of March 2018.

The Covenant 4.01 of the Article IV of Loan Agreement (Special Operations) Numbered 3326-SRI (SF) and dated 11 December 2015 has mentioned the Borrower's Obligations of Environmental safeguards and they have been mentioned in the Schedule 5. As per this schedule, the Sri Lankan Government as the Borrower should ensure that the Project preparation, Design, Construction, Implementation, Operation and Decommissioning and Project facilities comply with followings.

- a. All applicable Laws and Regulations of the Borrower relating to Environment, Health and Safety.
- b. The Environmental safeguards as set out in ADB's Safeguards Policy Statement 2009.
- c. The EARF and IEEs.
- d. All measures and requirements set forth in the respective IEE's and EMPs and any corrective or preventive actions set forth in a Safeguards Monitoring Report.

Therefore, the Team Leader (Engineer) sent all the safeguards documents including EARF, IEEs, Transect Walk Survey Report-2014, Road Safety Audit Report, RF etc. to all Contractors

separately by his letter dated 12.09.2016 to make them aware on implementation of safeguards activities to comply with above requirements. Then all the Contractors of Project 4 and 5 are aware of Environmental Safeguards requirements as per the National laws and policies, and ADB Safeguards Policy. Furthermore, Chief Resident Engineer (Acting Team Leader) sent all the above documents and current status on letter dated 18.02.2020 to newly re-tendered Contractors. Besides, the Orientation Programs were done to them for more awareness.

Clause No. 6, 6(a), 6 (b) and 6 (c) of the schedules mention that the Borrower shall ensure, or cause RDA to ensure that all bidding documents contain provisions that require Contractors to:

- (a) Comply with the measures relevant to the contractor set forth in any safeguards document (including relevant IEEs, EMPs and road specific EMPs), and any corrective or preventative actions set forth in the Safeguards Monitoring Report;
- (b) Make available budget for all such Safeguard measures; and
- (c) Provide the Borrower with a written notice of any unanticipated environmental, resettlement or small ethnic community risks or impacts that arise during construction, implementation or operation of the Project that were not considered in the IEEs, EMPs and any other Safeguards plans.
- (d) To ensure the above conditions, the Borrower included relevant clauses to the Volume 5B – Schedules of the agreement signed between RDA and Contractors.

All bidding documents included above information to be known by Contractor.

3.2: Safeguards Monitoring and Reporting

Under clause No. 7 of the Borrower shall do the following or cause RDA to do the following:

- (a) Submit Annual Environmental Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission (The Annual Environmental Compliance Monitoring Reports prepared for year 2016, 2017, 2018 and 2019 have been submitted to the Client). And this report is prepared for the time period from January to December 2020;

(b) If any unanticipated Environmental and/or Social risks and impacts arise during construction, implementation or operation of the Project that were not considered in the IEEs, EMPs, and any safeguards documents, promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan. No any unanticipated impacts arose during reporting period; and

(c) Report any actual or potential breach of compliance with the measures and requirements set forth in the IEEs, EMPs and any safeguard documents promptly after becoming aware of the breach. Contractors of Project 4 and 5 submit monthly progress report to the RDA, the Client.

Clause - 32 of Loan Agreement (Ordinary Operations) numbered 3325-SRI mentions that the Environment component of Tranche 3 has been categorized as category B such as Tranches 1 and 2. Accordingly, two IEEs for NWP and NCP have been prepared by the project. No new roads were considered in Project 4 and 5 under Tranche 3 during the reporting period.

3.3: Compliance with FAM

In the **Project Organizational Structure** of the FAM (Appendix 6) mentioned that Project Implementation Consultants (PICs) as a key organization in the project. Accordingly, PIC 02 was deployed from 15 March 2016. And PIU of Project 4 and 5 have been appointed with Project Directors.

Environmental Management Plan (EMP), Environmental Monitoring Plan (EMoP), IEEs for both provinces and Environmental Assessment and Review Framework (EARF) were submitted by the RDA and the PIC 02 and they are implemented at PIC level. On the other hand, the Contractors were advised to conduct refreshing Transect Walks during contract period to update physical information and conduct Public consultations (Clause 55). The Foot Note No. 15 under Clause No. 55 of FAM has clearly mentioned that the Contractors are required to conduct their own Transect Walks to update physical information and conduct consultations to solicit community knowledge and requirements that should be reflected in the design. And also, according to Clause 54, the project is implemented with required clearances, permits and licenses. Refreshing Transect Walk surveys also conducted in year 2017 and 2018.

The Grievance Redress Mechanism (GRM) mentioned under Clause 64 is implemented as mentioned in the FAM. In accordance with Clause 68 and 69 (HIV/AIDS and Health), all the Contractors have implemented awareness programs on HIV/AIDs for workers and prominent villagers in their contract packages, and Contractors were motivated to supply potable drinking water, quality accommodation facilities, safety measures, first aids facilities and etc. for workers. All the Contractors except PU 03 have completed the second round of HIV/AIDS awareness programs in **Table 40**.

While Internal Environmental Monitoring is done by PIU, PIC 02 monitors Environmental component internally according to Clause 78. The Contractors submitted Site Specific Environmental Management Action Plan (SSEMAP) for each road before constructions are commenced and Environmental Monitoring Checklists (EMCs) for each Contract package as per the required stage, which are Design & Pre-construction, 25%, 50% and 75% Construction stages. Depending on these documents, PIC monitors Environmental activities through RE, AREs, CEs, TOs, ESSO and DSESA of PIC 02. The Contractors provide periodically Monthly Progress Report on Environment component. In addition to them, the Environmental Progress Review Meeting for each Contract package is conducted by ESSO randomly while discussing Environmental component at General Monthly Progress Review meeting of each Contract package. And also, joint site visits were conducted.

A qualified Environmental Specialist who has a Master Degree in Environmental Science or equivalent and More than 10 years relevant experience has been mobilized on a full-time basis by PIC 02 from 15 March 2016 in accordance with the Attachment C-3 to FAM, Attachment C-4 to FAM and Attachment C-5 to FAM (Clause 30 and 31 respectively). He checks the compliance of EARF requirements in project implementation. And also, a qualified Environmental and Social Safeguards Officer appointed to the TL's Office, from 21st of February 2017 monitors the Environmental Safeguards activities of 2 provinces. In addition, 4 District Social and Environmental Safeguards Assistants have been recruited to monitor the District level Environmental safeguards activities. But within the reporting period of year 2020, only ESSO and DSESA – Kurunegala are being at the PIC 02. The position ESSO also has a M.Sc. in Environmental Science or equivalent. Only years of experience is lower than the ES. Hence, the designation is changed into Officer level.

3.4: Compliance with respect to EARF

The EARF prepared for Tranche 1 is valid to other Tranches of iRoad in Sri Lanka (Clause 5 and 6). The project is implemented in accordance with this EARF as per following guidelines.

- To assess and manage the Environmental impacts and obtaining the Environmental Clearance for the project, the National Environmental Act, the key act of the Central Environmental Authority (CEA) in Sri Lanka has been followed by RDA. Therefore, RDA has obtained a conditional concurrence for all roads in NCP and NWP from CEA. RDA has obtained CEA recommendation with clearance for Projects 3 and 4.
- It was emphasized that existing width of the rural and national road should not be widened. No road widening envisaged/observed during year 2020.
- The roads are not fallen through the Wildlife Reserves or any Strict Nature Reserves. No new roads selected.
- The ADB Safeguards Policies have not been violated.
- Applicable National Laws and Regulations mentioned in the Table 2 of Clause 11 and Table 3 of Clause 12 are thoroughly followed during year 2020.
- When implementation, international agreements or conventions were not violated.
- The ESDD of RDA provided technical supports and appointed Environmental Safeguards Officers for 2 PIUs and they were supported and worked with together for benefit of the project. But, during the reporting period of year 2020, the ESO for PIU – NCP was already resigned due to completion of the Project 4.
- Five safeguards training programs except HIV/AIDS programs for PIU, PIC and Contractor's relevant staff was conducted by PIUs with the support of PIC, ADB in 2020 of the contracts (***Annexure II***).
- SSEMAPs for each road were prepared by the Contractor before the construction is commenced in accordance with guidelines of EMP.
- Standard EMP is available and it was used by Contractors to prepare their SSEMAPs. Details of SSEMAPs are discussed in **Table 34 & 35**.
- Public consultation had been done during the Project Identification Stage. It was also continued in Road Design Stage and Construction Stage.

- Grievance Redress Mechanism is already applied by forming GRCs at DS level and GND levels. A Complaint Register is used by every Contractor and Complaint Boxes have been placed at many locations of each road. Moreover, Green Notices (Public Notices) have been pasted near the community gathering places such as temples, shops, Post offices etc.
- The activities under responsibilities mentioned in the Table 1 of VI. Institutional Arrangement are carried by PIU and PIC. ADB, Dr. Palitha Bandara and team supported as resource persons during 4 Training Workshops and provided technical assistance when and where required. The Contractors implement their SSEMAPs through their Environmental and Social Officers. They have submitted Environmental Monitoring Checklists (EMCs) also for each road during Design & Pre-construction and Construction Stages. (**Tables 36 & 37**)
- All the Contractors report their progress monthly to PIC 02. In addition, the Consultancy staff monitor the Contractor's activities daily and Progress Review meeting are held at their Contract Packages at least once a month. The Engineer submits the progress to the Client monthly.

4.0: Monitoring of Environmental Compliance at Field level

4.1: Main Environmental Safeguards activities conducted

As per the duties of Environmental Safeguards, following activities were conducted during the reporting period.

- Ensured all the Environmental Mitigation measures required to be implemented in accordance with the Contract Agreement and Environmental Safeguards requirements.
- Supervised and monitored the Implementation of Environmental Management Plan (EMP). Regarding this subject, ESSO and DSESA - KU of PIC 02 assisted all contractors to prepare SSEMAPs and EMCs for each Contract Package.
- Technical advises required by the Contractors were given at any time, if the Contractor was being requested.
- Environmental Information was included in the Monthly Report prepared by PIC 02. Following tools were applied to monitor the Environmental Safeguards activities as follows.

- Daily Site inspections are done by RE's or ARE's level of the PIC staff.
- Periodic Site inspections are conducted by CRE (Acting Team Leader), ESSO and DSESA - KU as joint inspections with PIC, PIU and Contractor's staff. After the month of February 2020, according to the new staff mobilization, this was carried by CRE, ARE and ESSO from the PIC.
- Focal Point of the Environmental section in ADB/SLRM (Mr. Saranga Gajasinghe) were advised to rectify some issues especially the House cracked incidents due to civil works. Besides, he has guided to work under COVID-19 Epidemic.
- Monthly Environmental Progress Reports are obtained from the Contractors.
- Special Environmental Progress Review meetings are conducted periodically at Contract Package level with PIU, PIC and Contractors staff.
- The General Progress Review meetings conducted by CRE at Contract Package level, Environmental activities and issues are discussed.
- The claims of Contractors on Environmental components are certified on Monthly Performance Based.
- No any ADB missions are conducted during the reporting period of year 2020 because of the COVID-19 Outbreak.

4.2: The documents that Contractor should submit

In general, a Contract Package has more than 10 roads spread over more than 5 DS Divisions to be rehabilitated. Therefore, the rehabilitating activities of all the roads are not commenced at a same time. In accordance with the EMP is which should be followed by each Contractor. The Site-Specific Environmental Management Action Plan (SSEMAP) should be submitted and approval of the Engineer should be obtained before the commencement of construction activities. In this SSEMAP, critical locations are included by mentioning the Mitigation measures. Office premises, Storages, Licences and Approvals, Permits, Stockpile yards, Disposal sites, Garbage management, Traffic management, Safety arrangements and other Environmental related phenomena. Furthermore, Environmental issues connected with the construction activities are to be included road specifically. By considering this situation, the Contractors have submitted main EMAP with considering all the roads. All the Contractors including newly appointed Contractors for re-tendered packages as well are submitted the EMAPs. Additionally, the road wise SSEMAPs before the commencement of construction activities of each road. These SSEMAPs were reviewed by ESSO of PIC 02 and some of the SSEMAPs were returned

back because they were not complied with the specifications. During the year 2020, the re-tendered Contractors were submitted SSEMAPs by considering the rest of civil works according to the previous Contractors' completed civil works. Contractors have been advised to commence the construction activities with the close supervisions of CE, ARE, or CRE by not violating the Environmental Safeguards. The **Table 34 & 35.** shows the Progress of submitted SSEMAPs.

Table 34: Summary of SSEMAPs submission and approvals at the end of December 2020

CP	Total Roads	Construction				Post Construction -Road IDs-
		No. of Roads approved	Approved Road IDs	No. of Roads remaining to be approved	SSEMAP to be submitted - Road IDs	
KU 01	16	16	30, 32, 33, 34, 36, 47, 48, 49, 50, 55, 76, 82, 86, 97, 98, 81	No	-	30, 32, 33, 34, 36, 47, 48, 49, 50, 55, 76, 82, 86, 97, 98, 81
KU 02	19	19	01, 02, 04, 05, 43, 45, 56, 57, 58, 59, 74, 100, 102, 101, 41, 46, 75, 67, 66	No	-	01, 02, 04, 05, 43, 45, 56, 57, 58, 59, 74, 100, 102, 101, 41, 46, 75, 67, 66
KU 03	12	12	17, 20, 22, 23, 37, 38, 68, 71, 84, 87, 39, 40	No	-	71
KU 04	12	12	07, 08, 10, 11, 16, 27, 90, 91, 92, 94, 96, 28	No	-	-
KU 05	17	17	12, 13, 14, 24, 26, 61, 62, 65, 70, 77, 83, 99, 95, 29, 79, 80	No	-	-
PU 01	11	11	05, 06, 07, 08, 12, 43, 44, 11, 14, 15, 01	No	-	08, 44, 11, 06, 01, 43, 12, 05, 14, 15
PU 02	11	11	02, 03, 04, 09, 13, 26, 27, 28, 29, 30, 45	No	-	-
PU 03	15	15	16, 17, 21, 31, 32, 34, 33, 36, 39, 40, 41, 42, 22, 24, 38	No	-	-
AP 01	17	17	01, 02, 03, 10, 12, 36, 37, 38, 39, 40, 41, 43, 45, 46, 61, 63, 65	No	-	01, 02, 03, 10, 12, 36, 37, 38, 39, 40, 41, 43, 45, 46, 61, 63, 65
AP 02	12	12	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	No	-	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69
AP 03	12	12	05, 06, 07, 08, 09, 24,	No	-	05, 06, 07, 08, 09, 24,

CP	Total Roads	Construction				Post Construction -Road IDs-
		No. of Roads approved	Approved Road IDs	No. of Roads remaining to be approved	SSEMAP to be submitted - Road IDs	
			29, 30, 60, 70, 25, 71			29, 30, 60, 70, 25, 71
AP 04	19	19	14, 15, 16, 17, 18, 31, 32, 33, 34, 35, 51, 53, 57, 59, 52, 56, 13, 50, 55	No	-	14, 15, 16, 17, 18, 31, 32, 33, 34, 35, 51, 53, 57, 59, 52, 56, 13, 50, 55
PO 01	18	18	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 18, 21, 22, 20	No	-	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 18, 21, 22, 20
PO 02	25	25	24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 40, 41, 42, 44, 45, 46, 47, 48, 49, 51, 52, 55, 72, 73, 29	No	-	24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 40, 41, 42, 44, 45, 46, 47, 48, 49, 51, 52, 55, 72, 73, 29
PO 03	11	11	57, 58, 62, 64, 65, 66, 68, 59, 61, 67, 71	No	-	57, 58, 62, 64, 65, 66, 68, 59, 61, 67, 71
Total	227	227	N/A	-	-	160

Table 35: Summary of SSEMAPs submission and approvals of Re-tendered packages at the end of December 2020

Contract Package	Total Roads	No. of Roads approved	Approved Road IDs	No. of Roads remaining to be approved	SSEMAP to be submitted - Road IDs
KU 03 Terminated	12	12	17, 20, 22, 23, 37, 38, 68, 71, 84, 87, 39, 40	No	No
KU 03-R	12	07	20, 23, 37, 40, 87, 39, 84 (17, 38, 71, 22 & 68 – Previous Contractor has done 75% of works in these roads. Hence, only Attachments have going to be taken	05 attachments of SSEMAPs	17, 38, 71, 22 & 68 of attachments

Contract Package	Total Roads	No. of Roads approved	Approved Road IDs	No. of Roads remaining to be approved	SSEMAP to be submitted - Road IDs
			from the new Contractor relevantly for remaining works for above roads and considering the previous reports if needed.)		
KU 04 Terminated	12	12	07, 08, 10, 11, 16, 27, 90, 91, 92, 94, 96, 28	No	No
KU 05 Terminated	17	17	12, 13, 14, 24, 26, 61, 62, 65, 70, 77, 83, 89, 99, 95, 29, 79, 80	No	No
KU 05-R	17	09	26, 61, 77, 95, 79, 14, 83, 70, 29, (26, 61, 77, 99 - Previous Contractor has done 75% of works in these roads. Hence, only Attachments have going to be taken from the new Contractor relevantly for remaining works for above roads and considering the previous reports if needed.)	07 and 01 attachments of SSEMAPs	12, 13, 24, 62, 65, 89, 80 and 99 of attachments

Contract Package	Total Roads	No. of Roads approved	Approved Road IDs	No. of Roads remaining to be approved	SSEMAP to be submitted - Road IDs
Total	41	28	N/A	13	N/A

The Contractor should submit the SSEMAPs for Post Construction Stage. For the post construction stage, 160 SSEMAPs have been submitted. The Environmental Monitoring Checklists (EMCs) are the other important document in the project. All the roads should have an EMC at Design & Pre-construction stage. It is a main Environmental Safeguards activity of the Contractor. Apart from that, EMC should be prepared for the Construction Stage but it depends on the length of the road. If the road length less than 3.0 km, it requires only the EMC at 50% progress of Construction stage. If the length is more than 3.0 km, it requires EMCs at 25%, 50% and 75% of Construction Stages. At the end of the Construction period, the Contractor should submit EMCs of Post Construction/Operational Stage for all roads separately. By the end of the year 2020, 222 EMCs for Pre-construction Stage, 125 EMCs at 25%, 176 EMCs at 50% and 92 EMCs at 75% of Construction Stages have been approved by the PIC. During the year 2020, the re-tendered Contractors were submitted EMCs by considering the rest of civil works according to the previous Contractors' completed civil works. The **Table 36 & 37.** shows the progress of EMCs submission up to end of year 2020.

Table 36: EMCs approvals at the end of year 2020

Contract Package	No. of roads in the CP	Road Numbers				
		Pre - Construction stage	25%	50%	75%	Operational stage
KU - 01	16	30, 32, 33, 34, 36, 47, 48, 49, 50, 55, 76, 81, 82, 86, 97, 98	30, 34, 47, 48, 50, 55, 82, 86, 97, 33, 76, 81, 98	30, 32, 34, 33, 76, 47, 48, 49, 50, 55, 82, 86, 97, 36, 81, 98	30, 34, 47, 48, 55, 82, 86, 97, 50, 76, 33, 81, 98	-
KU - 02	19	01, 05, 43, 56, 57, 58, 59, 66, 74, 100, 101, 02, 04, 102, 41, 46, 75, 67, 45	01, 05, 43, 56, 57, 58, 59, 66, 100, 02, 102, 41, 46, 75, 67, 45	01, 05, 43, 56, 57, 58, 59, 66, 74, 100, 101, 02, 04, 102, 41, 46, 75, 67, 45	01, 05, 43, 56, 57, 58, 59, 66, 100, 02, 102, 41, 46, 75, 67, 45	-

Contract Package	No. of roads in the CP	Road Numbers				
		Pre - Construction stage	25%	50%	75%	Operational stage
KU - 03	12	17, 20, 22, 37, 38, 68, 71, 84, 87, 23. 39	17, 22, 38, 71, 68, 84	17, 22, 38, 71, 68	17,38,71,22,68	-
KU - 04	12	07, 08, 10, 11, 16, 90, 91, 92, 94, 96, 27, 28	11, 16, 92, 96, 90, 91, 27, 07, 08	16, 92, 96, 11, 91, 07	16, 92, 96, 11	-
KU - 05	17	12, 14, 24, 26, 29, 61, 62, 65, 70, 77, 83, 99, 95, 13, 79, 80	26, 61, 62, 77, 99, 70	24, 26, 61, 77, 62, 70, 99	26, 61, 77, 99	-
PU - 01	11	05, 06, 07, 08, 12, 43, 44, 11, 14, 01, 15	07, 08, 44, 43, 01, 14, 05, 11, 15, 12	07, 08, 43, 44, 01, 05, 14, 15, 06, 11, 12	08, 01, 07, 43, 44, 14, 15, 05, 11, 12	-
PU - 02	11	02, 03, 04, 09, 26, 27, 28, 29, 30, 45, 13	03, 26, 27, 04	03, 04, 26, 27	-	-
PU - 03	15	31, 16, 17, 21, 33, 36, 39, 40, 41, 42, 22, 24, 38, 32, 34	-	31, 39, 40, 42	-	-
AP - 01	17	01, 02, 03, 10, 12, 36, 37, 38, 39, 40, 41, 43, 45, 46, 61, 63, 65	01, 10, 36, 37, 38, 39, 41, 43, 45, 61, 65	01, 02, 03, 10, 12, 36, 37, 38, 39, 40, 41, 43, 45, 46, 61, 63, 65	36, 37, 41, 61, 01, 38, 43, 65, 39, 10, 45	-
AP - 02	12	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69, 19	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	-
AP - 03	12	05, 06, 07, 08, 09, 24, 29, 30, 60, 70, 25, 71	07, 09, 70, 30, 60, 25, 29, 24	05, 06, 07, 08, 09, 24, 29, 30, 60, 70, 25, 71	24, 25, 60, 70, 29, 30, 09, 07	-
AP - 04	19	50, 51, 52, 53, 55, 56, 57, 59, 33, 34, 35, 16,	52, 57, 59, 33, 34, 16, 17, 18, 31, 32, 13, 14, 15	50, 51, 52, 53, 55, 56, 57, 59, 33, 34, 35, 16,	52, 57, 59, 33, 34, 16, 17, 18, 31, 32, 13, 14,	-

Contract Package	No. of roads in the CP	Road Numbers				
		Pre - Construction stage	25%	50%	75%	Operational stage
		17, 18, 31, 32, 13, 14, 15		17, 18, 31, 32, 13, 14, 15	15	
PO - 01	18	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 18, 21, 22, 20	01, 02, 03, 10, 11, 13, 18, 20	01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14, 18, 21, 22, 20	01, 02, 03, 10, 11, 13, 18, 20	-
PO - 02	25	24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 40, 41, 42, 44, 45, 46, 47, 48, 49, 51, 52, 55, 72, 73, 29	24, 25, 28, 33, 34, 35, 37, 45, 72, 73, 29, 41	24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 40, 41, 42, 44, 45, 46, 47, 48, 49, 51, 52, 55, 72, 73, 29	24, 25, 28, 33, 34, 35, 37, 45, 72, 73, 29, 41	-
PO - 03	11	57, 58, 62, 64, 65, 68, 59, 61, 67, 71, 66	57, 62, 58, 61, 35	57, 58, 62, 64, 65, 68, 59, 61, 67, 71, 66	57, 62, 58, 61, 35	-
Total Roads	227	225	133	186	121	-

Table 37: EMCs approvals at the end of year 2020; Re-tendered packages.

Contract Package	Road Numbers at each Stage				
	Pre - Construction stage	25%	50%	75%	Operational stage (SSEMAP)
KU 03/ Terminated	17, 20, 22, 37, 38, 68, 71, 84, 87, 23, 39 (Total=11)	17, 22, 38, 71, 68, 84, 87 (Total=07)	17, 22, 38, 71, 68, 87 (Total=06)	17, 38, 71, 22, 68 (Total=05)	71 (Total=01)
KU 03 – R	Road ID 40 – Submitted (01)	05 Reports to be submitted.	06 Reports to be submitted.	07 Reports to be submitted.	12 Reports to be submitted.
KU 04 / Terminated	07, 08, 10, 11, 16, 90, 91, 92, 94, 96, 27, 28 (Total=12)	11, 16, 92, 96, 90, 91, 27, 07, 08 (Total=09)	16, 92, 96, 11, 91, 07 (Total=06)	16, 92, 96, 11 (Total=04)	 (Total=00)

Contract Package	Road Numbers at each Stage				
	Pre - Construction stage	25%	50%	75%	Operational stage (SSEMAP)
KU 05/ Terminated	12, 14, 24, 26, 29, 61, 62, 65, 70, 77, 83, 99, 95, 13, 79, 80 (Total=16)	26, 61, 62, 77, 99, 70, 29 (Total=07)	24, 26, 61, 77, 62, 70, 99 (Total=07)	26, 61, 77, 99 (Total=04)	(Total=00)
KU 05 – R	1 Report to be submitted.	10 Reports to be submitted.	9 Reports to be submitted.	13 Reports to be submitted.	17 Reports to be submitted.
Total [Roads]	40	24	19	13	01

4.3: Implementation of GRM

Clause No.3 of Section 7, Terms of Reference in RFP-PIC 02 noted that the monitoring of Safeguards activities (Environment and Social) is a responsibility of the PIC and 15b of this document mentions in **b (vi)** to help the establishment of Grievance Redress Mechanism and ensure its proper functioning and management. Moreover, it mentions **in b (vii)** to carry out the duties of Environmental Safeguards.

In formation of GR Committees at DS level and GND level in the two provinces, the PIU was supported by PIC to build up awareness amongst the community and GRC representatives. As a result of these awareness programs and the commitment of PIU, PIC and Contractors, 85 GRCs out of 85 DS levels and 240 GN levels GRCs out of 239 were formed at the end of 2020 as per the following **Table 38**.

Table 38: Progress of GRC formation by 31st December 2020

Package	No. of DS level GRCs to be formed	Already formed as end of December 2020	No. of GN level GRCs on each road to be formed	Already formed as at end of December 2020

Package	No. of DS level GRCs to be formed	Already formed as end of December 2020	No. of GN level GRCs on each road to be formed	Already formed as at end of December 2020
Package: KU 01	06	06	20	20
Package: KU 02	09	09	23	23
Package: KU 03	06	06	17	17
Package: KU 04	09	09	12	12
Package: KU 05	10	10	17	17
Package: PU 01	06	06	11	11
Package: PU 02	07	07	11	11
Package: PU 03	05	05	16	16
Package: AP 01	06	06	17	17
Package: AP 02	06	06	12	12
Package: AP 03	04	04	12	12
Package: AP 04	06	06	19	19
Package: PO 01	02	02	18	18
Package: PO 02	03	03	26	26
Package: PO 03	02	02	11	11
Total	87	87	242	242

Depending on the Road length and Administrative boundaries, one or more than one GRCs have to be formed at GN level. Therefore, these figures are more than the number of roads in the project.

Under the GRM process of PIC 02, public complaints, requests and suggestions were considered at the Design and Implementation stages to rehabilitate roads for the maximum benefit for the people. In this process, the public has the provision to complain or make requests or suggestions over the phone or by meeting the PIC staff, PIU staff and the Contractor's staff.

All the complaints/requests or suggestions are forwarded to the Contractors for register them in their Complaints, Suggestions and Requests Register. By the end of year 2020, 4455 complaints/requests/suggestions had been received. Out of them, actions were taken for 3594. Pending complaints/requests/ suggestions were 263 and rejected due to reasonable matters were 596 (Previous figures were included in the Annual Environmental Compliance Monitoring Report of year 2019 and again updated in the year 2020). The Contract Package wise grievances, requests and suggestions solved or being solved are summarized in the **Table 39** of “Package wise Complaints/Requests/ Suggestions during the year 2020”. Moreover, it is mentioned that the Re-tendered packages’ details during the period. Especially, it is already mentioned the previous Contractor’s summary and they were incorporated with the re-tendered Contractor received complaints, requests and suggestions. After analyzed the both Contractors received complaints, requests and suggestions, the inactive issues were omitted and re-arranged the Public Complaint Registers.

The accepted complaints/requests/suggestions at GRC meetings or Transect walks are in Numbers and rejected/disregarded complaints/requests/ suggestions are mentioned in **Annexure III**.

Table 39: Package wise Complaints/Requests/Suggestions during the year 2020

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	Pending	No. of rejected due to reasonable matters
KU 01	433	320	00	113
KU 02	730	575	00	155
KU 03	308	289	08	11
KU 03-R	138	75	44	19
KU 04	494	437	30	27
KU 05	233	208	21	04
KU 05-R	383	168	126	89
PU 01	184	136	14	34
PU 02	237	212	18	07
PU 03	155	124	31	00
AP 01	244	229	00	15

AP 02	212	195	00	17
AP 03	346	332	00	14
AP 04	432	367	00	65
PO 01	160	150	00	10
PO 02	187	166	00	21
PO 03	119	107	00	12
Total	4,444	3593	263	588

All the contractors are bound to erect complaints/suggestions/requests boxes at public places. Apart from that they should demonstrate a (Green Notice) Public Notice of contact numbers for the convenience for public to complain or get some information about road related matters.

The complaints, suggestions or requests should be registered by the Contractor and should be forwarded to the CRE, if they cannot be solved at Level 1. Then GRC Level 2 at GN Level or Level 3 at DS Level will attend these issues to solve. If any issues that cannot be solved in this process, the complainant has the freedom to go to the court. Fortunately, no any issue appeared which cannot be solved in this process up to now. But some complaints are cannot solve until the re-construction to be started in terminated packages. Therefore, continuous complaints are due to those packages. Because of that, Emergency and Safety works have been done to complete the permanent works up to motorable condition for comply the outstanding Environmental issues.

4.4: Licenses and Approvals

The Contractors are bound to obtain licenses/permits/consents from many authorities such as CEA, GS&MB, DS, PS and etc. These licenses are checked by ARE and other PIC staff where constructions activities are functioned. Especially, Borrow pits, Quarries, Crushers, Batching plants and Asphalt plants are the significant places which licenses are required. The list of licenses which have been obtained for these major items are mentioned **Annexure IV**. In addition, Stockpile yards, Disposal yards, other yards and etc. are also required these permissions or licenses. In this iRoad project, there are no large size Disposal sites due to less quantity of debris/disposal soil. However, the licenses of PS and consent of DS are obtained by the Contractor. On the other hand, the CE and ARE of Consultant and PE of PIU recommend these licenses while ESSO is guiding and monitoring procedures and methods.

4.5: HIV/AIDS Awareness Programs Conducted

In 2017, 15 HIV/AIDS Workshops of 15 Contract Packages had been conducted for 2115 persons of PIU, PIC and Contractors' staff and workers (Occupational programme). The second phase focused on community was commenced in 2018 and 13 workshops have been conducted out of 15. The rest of 2 programmes have been plan to conduct in year 2019. During 2018, 13 Workshops of 15 Contract Packages have been conducted for 818 people. In 2019, only 1 program has been done out of the remaining programmes. PU 03 is to be conducted. But that package terminated during 2019. Therefore, newly appointed package should be done the programmes during their project period. This is a mandatory requirement of the iRoad Program according to the updated FAM. The SGRS of PIC 02 actively involved in this program to achieve the objectives. After the end of June 2020, the SGRO of PIC 02 has involved to it.

But, newly appointed re-tendered packages also must to do both occupational and community programmes during the project period. Hence, the KU 03-R has done their Occupational programme during the 2020. The KU 05-R also planned to do it on 13th of October 2020. But it was impossible held due to COVID-19 2nd wave. Therefore, it was postponed with a tentative date.

Table 40: HIV/AIDS Awareness programmes conducted during 2020

Package	Date	Venue	Participants		
			Male	Female	Total
KU 03-R	04.09.2020	Vocational Training Institute of Tourism & Hospitality, Maguruoya	129	21	150

Package	Date	Venue	Participants		
			Male	Female	Total
		Watta, New Malkaduwwa, Kurunegala			
Gender wise (%)			86	14	100

The Contractors organized these programmes and used the resource of Ministry of Health Services. The venues selected for the programmes are appropriated. Before the commencement of multimedia presentations, Health Clinical Programme was conducted by obtaining Blood samples from the participants at each programme. In addition to them, education of Non-Communicable Diseases (NCD) such as Kidney Diseases, Drugs using or Tobacco alcohol prevention, Child abuse minimizing methods and Healthy diet planning and family life were included into the programme.

The other important thing of this program is that many kinds of important posters on good habits are demonstrated during the day of programme. Drug prevention, Information of good food habits, Clinical venues of STD treatments, Steps to be followed when symptoms of diseases are appeared, Preventive measures of spreading of HIV/AIDS etc. are exhibited on some posters. Some photos of the programme are shown below.

Moreover, the BMI value was calculated by measuring the Weight and the Height of each participant. Besides, the HIV Rapid Test was done by taking Blood samples while programme was ongoing. Especially, this test was doing only the person who wants to do. And it was never forced to anybody to do it because the American concept of 'No News, Good News' is implementing in Sri Lankan Health sector.



Picture: No. 01: HIV/AIDS Programme – KU 03-R



Picture: No. 02: Opening ceremony of the Programme – KU 03-R



Picture: No. 03: SGRO of PIC 02 speaking at the Programme - KU 03-R



Picture: No. 04: Participants of the Programme – KU 03-R



Picture: No. 05: Blood testing for HIV Rapid Test



Picture: No. 06: Measuring the Weight and the Height to calculate the BMI



Picture: No. 07: Lecture by Consultant Venereologist Shyama Somawardhana



Picture: No. 08: Lecture by Mr. H.M.P.B. Herath (DHEO)

4.6: Field Environmental monitoring carried out by PIC, PIU and ESSD in brief

ARE, CEs, DSESA-KU and TOs are monitor the Environmental Safeguards activities of all the CPs during all working days while they are engaging in civil works. But ESSO/PIC 02 and DSESA-KU monitor CPs especially on Environmental Safeguards. As well as the ESO and AESO of PIU monitor Environmental activities of NWP. The site visits conducted are shown in the following **Table 41**.

Table 41: Site visits conducted jointly with PIC, PIU and Contractor

Serial No.	Date	Site	Participants	Remarks
1.	14.01.2020	PU 01 Road IDs 05 & 07	SGRS/PIC 02, ESSO/PIC 02 and ESO/ Contractor	Involved to evaluate the remaining issues to be rectified before the road handing over inspection.
2.	05.02.2020	PU 01 Road IDs 43 & 05 at Ch. 05+900 LHS	ESSO/PIC 02 and Contractor's ESO	Monitor the Stockpile and Disposal yards rehabilitation before the roads handing over
3.	20.02.2020	PU 01 Road IDs 14, 15 & 01	SGRS/PIC 02, ESSO/PIC 02 and ESO/RDA	Involved to evaluate the remaining issues to be rectified before the road handing over inspection.
4.	24.02.2020	PU 01 Road ID 07	PD, PE & AESO of RDA, SGRS, RE, CE-PU 01, ESSO and TO-PU 01 of PIC 02, DO/Department of Irrigation, Two Contractor's Representatives and the Villagers	to observe the significant outstanding issues which were raised after the completion of Civil works. (GRC meeting)
5.	26.02.2020	PU 01 Road IDs 05 & 01	PE/RDA, RE, SGRS, CE-PU 01, ESSO and TO-PU 01 of PIC 02 and Two Contractor's Representatives	Involved to evaluate the remaining issues to be rectified before the road handing over inspection.
		PU 01 Road ID 43	PE/RDA, RE, SGRS, CE-PU	Involved to evaluate

Serial No.	Date	Site	Participants	Remarks
6.	28.02.2020	& 07	01, ESSO and TO-PU 01 of PIC 02, Two Contractor's Representatives and two Officers of the PRDA	the remaining issues to be rectified before the road handing over inspection.
7.	06.05.2020	KU 03-R Site Office – RR Construction (Pvt.) Ltd, No.372/2, Daduruoya, Thorayaya, Kurunegala.	SGRS & ESSO of PIC 02	To advise and observe the implementation of the preventive and safe working procedures to prevail the COVID-19 pandemic condition
8.	14.05.2020	KU 03-R related MOH Offices	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To inform the PHIs of relevant each road to start civil works under COVID -19 pandemic condition
9.	15.05.2020	-KU 05-R Site Office – Finite Lanka (Pvt.) Ltd, 8 th Km Post, Hiriwewa, Kobeigane and -KU 03-R related MOH Offices	-SGRS and ESSO of PIC 02 -ESO/RDA, ESSO/PIC 02 and ESO/Contractor	-To advise and observe the implementation of the preventive and safe working procedures to prevail the COVID-19 pandemic condition. -To inform the PHIs of relevant each road to start civil works under COVID -19 pandemic condition
10.	16.05.2019	KU 03-R Site Office	ESO/RDA and ESSO/PIC 02	To attend the Awareness programme of

Serial No.	Date	Site	Participants	Remarks
				preventing COVID-19 pandemic
11.	19.05.2020	KU 03-R Road IDs 71 & 20	PE/RDA, SGRS, ESSO, CE and TOs of PIC 02 and ESO and SE of Contractor	Observed technical and environmental issues of the road and public requests also concerned.
12.	21.05.2020	KU 05-R related MOH Offices	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To inform the PHIs of relevant each road to start civil works under COVID-19 pandemic condition
13.	03.06.2020	KU 05-R Road IDs 26 & 29	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
14.	13.06.2020	KU 03-R Road IDs 20 & 87	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
15.	15.06.2020	KU 05-R Road ID 95	ESO and AESO of RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
16.	16.06.2020	KU 03-R Road IDs 71, 20, 68 & 87	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
17.	17.06.2020	KU 03-R Road IDs 20 & 68	PE, ESO and AESO of RDA, SGRS, ESSO and CE of PIC 02 and ESOs/Contractor	To observe the Environmental issue due heavy rain and a drainage issue
18.	18.06.2020	KU 05-R Road IDs 26 & 95	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
19.	25.06.2020	KU 02 Road ID 66	PD, ESO and AESO of RDA, CRE, SGRS and ESSO of PIC 02 and Additional Director of North western Provincial Engineering Department and their 3 TOs	To do an independent investigation for the Mrs. Thamara Kumari's house cracked case

Serial No.	Date	Site	Participants	Remarks
20.	29.06.2020	KU 03-R Road ID 87	ESO and AESO of RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards, Disposal yards and water stagnate issue
21.	30.06.2020	KU 05-R Road ID 26	ESO and AESO of RDA, ESSO/PIC 02 and ESO/Contractor	To observe a Disposal yards
22.	09.07.2020	KU 05-R Road IDs 26, 29 & 95	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
23.	10.07.2020	KU 03-R Road IDs 20, 22 & 87	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
24.	13.07.2020	KU 03-R Road ID 23	ESO and AESO of RDA, ESSO/PIC 02 and ESOs/Contractor	To observe Stockpile yards and Disposal yards
25.	14.07.2020	KU 03-R Road IDs 20, 22 & 40 and KU 05-R Road ID 61	ESO and AESO of RDA, ESSO/PIC 02 and DPM, SE and ESO/Contractor	To observe Stockpile yards and Disposal yards
26.	15.07.2020	KU 05-R Road ID 95	ESO and AESO of RDA, ESSO and SGRO of PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
27.	23.07.2020	KU 05-R Road ID 95 DS Office – Polpithigama and KU 03-R Road ID 87	ESO and AESO of RDA, ESSO and SGRO of PIC 02 and ESOs/Contractor	To observe the By- pass and the Stockpile yard (KU 03-R)
28.	24.07.2020	KU 03-R Road ID 87	PD, PE, ESO and AESO of RDA, ARE, ESSO, SGRO and CE of PIC 02, PM, SEs, ESO/Contractor and GN of the area	To observe water stagnation and drainage issues (Environmental related)
29.	25.07.2020	KU 03-R Road ID 68	ESSO and SGRO of PIC 02	To observe a cross drain issue

Serial No.	Date	Site	Participants	Remarks
30.	27.07.2020	KU 03-R Road ID 68	ARE, ESSO, SGRO of PIC 02	To observe a cross drain issue
31.	28.07.2020	KU 05-R Road IDs 29 & 83	ESO and AESO of RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
32.	31.07.2020	KU 03-R Road IDs 23, 39 & 40 and KU 05-R Road ID 79	ESO/RDA, ESSO/PIC 02 and SE and ESO/Contractor	To observe Stockpile yards and Disposal yards
33.	11.08.2020	KU 03-R Road ID 20	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
34.	12.08.2020	KU 05-R Road ID 29 and KU 04 Road ID 28	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting and to observe civil works activities
35.	14.08.2020	KU 03-R Road ID 20	ESO and AESO of RDA, ESSO and SGRO of PIC 02 and ESO/Contractor	To observe Stockpile yard and Land Donation activity
36.	18.08.2020	KU 05-R Road ID 61 and KU 03-R Road ID 37	ESO/RDA, ESSO and SGRO of PIC 02 and SE and ESO/Contractor	To investigate a public complaint and observe Stockpile yards and Disposal yards.
37.	21.08.2020	KU 04 Road ID 28	Key staffs of the Client, Consultant and Contractor	Road handing over inspection
38.	24.08.2020	KU 02 Road ID 66, KU 05-R Road ID 26 and KU 03-R Road ID 68	PD, PE, ESO and AESO of RDA, CRE, ARE, ESSO, SGRO and CE of PIC 02, ESO/Contractor, GN of that area and the Villager	To compensate for the house cracked issue of Mrs. Thamara Kumari. To observe a By-pass issue To participate a

Serial No.	Date	Site	Participants	Remarks
				GRC meeting
39.	25.08.2020	KU 05-R Road ID 26	PD, PE, ESO and AESO of RDA, CRE, ARE, CE, ESSO, SGRO and TO of PIC 02, PM, DPM, SEs, ESOs/Contractor and GN of that area	To observe and solve a By-pass issue and course way issue
40.	26.08.2020	KU 03-R Road ID 23	ESO and AESO of RDA, ESSO/PIC 02 and SE and ESOs/Contractor	To observe Stockpile yards and Disposal yards
41.	27.08.2020	KU 05-R Road ID 95	ESSO and SGRO of PIC 02	To observe Road Closure implementation
42.	28.08.2020	KU 05-R Road ID 29	ESSO and SGRO of PIC 02	To observe Road Closure implementation
43.	03.09.2020	KU 03-R Road IDs 20 & 87	ESO and AESO of RDA, ESSO/PIC 02 and ESOs/Contractor	To observe Road Closure implementation
44.	08.09.2020	KU 05-R Road IDs 95 & 14	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
45.	09.09.2020	KU 03-R Road ID 23	ESO and AESO of RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards
46.	10.09.2020	KU 05-R Road ID 26 and Site office	ESSO and SGRO of PIC 02	To observe the Environmental issue and Road closure implementation
47.	11.09.2020	KU 05-R Road IDs 95 & 79	PD, PE, ESO and AESO of RDA, CRE, ARE, CE, ESSO, SGRO and TO of PIC 02,	To observe culvert issues, course way issues (GRC

Serial No.	Date	Site	Participants	Remarks
			PM, DPM, SEs, ESOs/Contractor, GN of that area, President of the Pradeshiya Sabha, Agricultural research and production assistant, Officers of Irrigation Department, Development officer and villagers	meeting) and proposed tree to be removed
48.	15.09.2020	KU 03-R Road IDs 68 & 20	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
49.	16.09.2020	KU 05-R Road ID 79	PD, PE, ESO and AESO of RDA, CRE, ARE, CE, ESSO, SGRO and TO of PIC 02, PM, DPM, SEs, ESOs/Contractor, GN of that area, President of the Pradeshiya Sabha, Agricultural research and production assistant, Officers of Irrigation Department, Development officer, Villager and Politicians	To discuss about water pipe laying before the road construction (GRC meeting) and culvert issue shifting issue because of valuable trees located near the it.
50.	18.09.2020	KU 03-R Road ID 39 & 40	ESO and AESO of RDA, ESSO and SGRO of PIC 02 and SE and ESO of Contractor	To observe Stockpile yards
51.	21.09.2020	KU 05-R Road ID 29	PD, PE, ESO and AESO of RDA, CRE, ARE, ME, CE, ESSO, SGRO, LS and TO of PIC 02, PM, DPM, SEs, ESOs/Contractor, GN of that area, President of the Pradeshiya Sabha, Agricultural research and production assistant, Officers of Irrigation Department, Development officer and the Villagers	To discuss and observe culvert issues, drainage issues, construction issues etc. (GRC meeting) and culvert issue shifting issue because of a valuable tree located near to it.

Serial No.	Date	Site	Participants	Remarks
52.	22.09.2020	KU 03-R Road ID 20	PE, ESO and AESO of RDA, ESSO, SGRO and TO of PIC 02 and SE and ESO of Contractor	To observe the public complaints
53.	23.09.2020	KU 03-R Road ID 87 and KU 05-R Road ID 95	ESO and AESO of RDA, ESSO and SGRO of PIC 02	To observe the Environmental issues
54.	24.09.2020	KU 03-R Road ID 20	PD, PE, ESO and AESO of RDA, ARE, ESSO, SGRO, CE and TO of PIC 02, PM, SE, ESO of Contractor, GN of that area, Secretary of the Pradeshiya Sabha and the Villagers	To discuss and observe culvert and water stagnate issue (GRC meeting)
55.	28.09.2020	KU 03-R Road ID 20	ESO and AESO of RDA, ESSO and SGRO of PIC 02	To observe a tree which is proposed to remove and investigate a public complaint
56.	05.10.2020	KU 03-R Road ID 20	ESSO, SGRO and TO of PIC 02 and Staff of the Contractor	To observe the safety issues when Asphaltting
57.	07.10.2020	KU 05-R Road IDs 95 & 14	ESO/RDA, ESSO/PIC 02 and ESOs/Contractor	To process the Land Donation activity and observe the Stockpile yards and Disposal yards
58.	08.10.2020	KU 03-R Road ID 39 & 40	ESO/RDA, ESSO/PIC 02 and ES)/Contractor	To observe Stockpile yards and Disposal yards
59.	09.10.2020	KU 05-R Road IDs 95, 26 & 62	ESO and AESO of RDA, ESSO and SGRO of PIC 02 and SE and ESOs/Contractor	To observe Stockpile yards and Disposal yards and the Environmental issues
60.	12.10.2020	KU 03-R Road ID 23	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe Stockpile yards and Disposal yards
61.	14.10.2020	KU 04	PE, ESO and AESO of RDA,	To do an

Serial No.	Date	Site	Participants	Remarks
		Road ID 27	CE, ESSO and SGRO of PIC 02 and 3 TOs of North Western Provincial Engineering Department	independent investigation for the Mrs. Ashoka Kumari's house cracked case
62.	15.10.2020	KU 03-R Road IDs 20 & 87	Key staffs of the Client, Consultant and Contractor	Common Site visit before the Monthly Progressive Review Meeting
63.	20.10.2020	KU 05-R Road IDs 79, 83 & 77	AESO/RDA, ESSO and SGRO of PIC 02 and SE and ESOs/Contractor	To process the Land Donation activity and observe the Stockpile yards and Disposal yards
64.	22.10.2020	KU 03-R Road ID 84	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe a Stockpile yard
65.	29.10.2020	KU 05-R Road ID 70 & 65 KU 02 Road ID 66	ESSO and SGRO of PIC 02 and SE and ESO/Contractor	To observe the Stockpile yards, Disposal yards and the Environmental issues To post evaluation of completed road
66.	13.11.2020	KU 05-R Road ID 65 & 14	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe the Stockpile yards and Disposal yards
67.	17.11.2020	KU 04 Road ID 27	PE and AESO/RDA and ESSO and SGRO of PIC 02	To compensate for the house cracked issue of Mrs. Ashoka Kumari.
68.	19.11.2020	KU 03-R Road IDs 22 & 23	ESSO and SGRO of PIC 02	To inspect an issue of poor implementation for road closure
69.	20.11.2020	KU 05-R Road IDs 95 & 14	ESO/RDA, ESSO and SGRO of PIC 02 and ESOs/Contractor	To process the Land Donation activity and inspect a public complaint
70.	23.11.2020	KU 05-R	ESO and AESO of RDA,	To observe the

Serial No.	Date	Site	Participants	Remarks
		Road IDs 77, 12 & 65 KU 03-R Road ID 17	ESSO and SGRO of PIC 02 and ESOs/Contractor	Stockpile yards and Disposal yards
71.	26.11.2020	KU 03-R Road ID 40	PE and AESO of RDA, ARE, ESSO and SGRO of PIC 02, PM, ESO and SE/Contractor, Agricultural research and production assistant, GN of the area and the Villagers	To inspect the public requests and suggestions which can be incorporated to the Engineering design.
72.	07.12.2020	KU 03-R Road ID 37	PD and PE of RDA, ARE, ESSO and SGRO of PIC 02, PM and SE/Contractor	A large-scale Rock boulder has been collapsed in to the road. Therefore, to visit the site.
73.	09.12.2020	KU 03-R Road ID 84	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe the Stockpile yards and Disposal yards
74.	11.12.2020	KU 05-R Road IDs 83 & 13	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe the Stockpile yards and Disposal yards
75.	19.12.2020	KU 03-R Road ID 84	ESO/RDA, ESSO/PIC 02 and ESO/Contractor	To observe the Stockpile yards and Disposal yards
76.	23.12.2020	KU 05-R Road IDs 62 & 65	ESO and AESO of RDA, ESSO/PIC 02, PM and ESO/Contractor	To observe the Stockpile yards and Disposal yards
77.	28.12.2020	KU 03-R Road ID 23	ESSO/PIC 02 and ESO and SE of Contractor	To observe the Disposal yards

4.6.1: Some pictures of Site inspections and meetings conducted in PIC 02



Picture: No. 09 – At PU 01 Rd ID 07



Picture: No. 10 – At PU 01 Rd ID 01



Picture: No. 11 – At PU 01 Rd ID 43



Picture: No. 12 – At PU 01 Rd ID 14



Picture: No. 13 – At KU 03-R Rd ID 20



Picture: No. 14 – At KU 03-R Rd ID 87



Picture: No. 15 – At KU 05-R Rd ID 29



Picture: No. 16 – At KU 05-R Rd ID 95



Picture: No. 17 – At KU 03-R Rd ID 20



Picture: No. 18 – At KU 05-R Rd ID 26



Picture: No. 19 – At KU 05-R Rd ID 95



Picture: No. 20 – At KU 03-R Rd ID 87

4.7: Site visits conducted jointly with PIC, PIU and CSD/ESSD

Mr. Saranga Gajasinghe/CSD/SG Specialist assisted when and where the PIC required his assistance to implement the Environmental and Social Safeguards activities in NCP and NWP. In 2019, already completed the NCP and the most of the NWP packages were terminated. Therefore, he didn't attend much due to lack of construction will never raise complicated/critical issues to be complied. Then some packages were re-tendered and newly started civil works in year 2020. But in the end of the year 2019 he was directly joined for the ADB. Hence, in 2020, he is not attended for site visits. As well as there's no any special workshops hold on this year. But he has involved in site visits and mini workshops of Environmental and Social Safeguards conducted for PIU and PIC 02 staff in 2016, 2017 and 2018 very often. All those details in the Annual Environmental Compliance Monitoring Reports of above years.

4.8: Site visits conducted by ADB Missions

The ADB Mission visited PIC 02 for 2 days in one time during the year 2019. That Mission came in September 2019 and visited Kurunegala and Anuradhapura districts. But in year 2020, there were no any ADB missions because of the COVID-19 pandemic.

5.0: Issues observed (Environment related) and status of compliance

Only two newly appointed Contractors for the re-tendered packages engaged in the construction activities in year 2020. Hence, there are no more Environmental issues are evident in their CPs. Additionally, the PU 01 package was ended their contract in end of February 2020.

5.1: Issues and mitigation measures applied

In Sri Lanka, September, October, November and December got heavy rain in NWP and NCP. It can be understood by the following **Table 42** of Weather condition. In this table, days which have not been mentioned are not rainy days. During drought months, the natural water bodies have been dried out and it will be affected for the aquatic species.

Many of complaints were received from public regarding dust emission and at some roads, public protested against dust emission. In this situation, some Contractors were faced with lot of

difficulties to find out suitable water sources to obtain water to wet the road surface. Many dialogs with community had to be arranged by the contractors to mitigate this issue. And also dust issues are raised because of the terminated packages which are the roads only prime layered. But, during year 2020 the newly started two of the terminated packages.

Following key Environmental issues were recorded during year 2020. **Annexure VII** shows pictures and details.

1. Dust Issues

The significant Environmental issue was the dust emission at road construction sites. The main mitigation measure to reduce dust is to spray water on road surface under construction. However, the year 2020 was a rainy year when comparing to the year 2019 (Refer. **Table 42**). However, attempts were made to reduce dust emission by watering bringing water from available water bodies, controlling vehicle transport at peak times of public places, limiting vehicle speed etc. when needed. But there are no more complaints for dust emission during the year 2020.



Watering at KU 03-R – Road ID 23



Watering at KU 05-R – Road ID 29

Table 42: Weather condition from January to December 2019 according to Contractor's information (No. of Days)

CP	Rainfall (1 – 10) mm												Rainfall (> 10) mm											
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
KU 03-R	N/A	N/A	06	15	07	04	03	04	03	03	01	01	N/A	N/A	01	01	03	10	12	05	17	18	06	08
KU 05-R	N/A	N/A	06	09	04	06	09	03	07	06	10	03	N/A	N/A	05	06	00	03	01	01	08	09	10	09

2. Blockage of drainage

Some drains have been blocked and damaged before and after construction activities. Sometimes lead away has been blocked or there was not a proper existing lead away for a long period. These issues were identified by PIC or PIU or Contractors during their site inspections or Design stage. Some issues were received from public as complaints or requests. Most of these issues were solved at GRC Level 1 and some issues were solved at GRC Level 2 and 3. If some drains had been blocked, they have been cleaned by the Contractor immediately. The both PIUs were involved actively to solve these issues.



Leader way cleared at KU 03-R – Road ID 87



No any harm to the Irrigation Canal at KU 03-R – Road ID 87

3. Flooding issues

Some road sections have been identified to have potential issues of flooding in accordance with the available hydrological records/information of the area and suggestions/requests of the public. In rainy seasons, some roads were heavily flooded. Such sections are redesigned with some pavement modifications.



Hard shoulder with L wall at KU 03-R – Road ID 20



Culvert Construction at KU 03-R – Road ID 20

4. Soil erosion

Soil erosion was evident at two places. One was at embankment construction sites and other is Stockpile yards. After the construction of embankment, erodible areas are turfed immediately to prevent soil erosion and Stockpiles are barricaded by sand bags where erodible sides.

5. Contamination of soils and water

It was identified that the soils and water are contaminated by dust, fuel and lubricant. Dust deposits in the drinking wells located adjacent to road construction sites. As well, fuel or oil is washed out in to soil and water bodies during rainy days when they are loaded or unloaded in the opening space without proper precautions. If drinking water wells are located near the

construction sites, they are covered. Loading and unloading of fuel/lubricants are done under roofed building. To avoid the spillage of fuel, trays are also used to collect them.



**Labelling of Stockpile Yards – KU 05-R
Rd ID 95**



**Labelling of Stockpile Yards – KU 03-R
Rd ID 87**

6. Safety issues

The roads are located in the rural areas and they are very narrow. Most of people are not much concerned on their own safety due to their insufficient knowledge on safety precautions. All the Contractors have been advised to arrange safety measures for public and workers. On the other hand, safety measures applied by the Contactor are monitored by Consultancy staff and PIU staff periodically. As a result of that safety arrangements at work sites are at acceptable level and personal safety gear for workers have been provided by Contractors.



Wearing PPE – KU 05-R Road ID 95



Wearing PPE – KU 03-R Road ID 71

7. Threaten to vegetation

Due to insufficient ROW, some trees have to be removed. But joint inspection is conducted by PIU, PIC and Contractors to identify the trees which could be saved. Many trees were saved in this way. Some roads are stretched through forest covers but not through designated forests of Forest Department or the Department of Wildlife Conservation. There were few roads close to forest reserves but all are not inside of the reserves or at least through the Buffer zones. However, the PIU obtained the general conditions of DWLC and FD to work on some roads to assure the more safety of forests and wildlife.

The summary of removed and planted trees is mentioned in the **Table 43**.

Table 43: Tree re- planting in numbers

District	No. of Trees removed	No. of Trees re- planted
Kurunegala	92	465
Puttalam	15	117
Anuradhapura	71	576
Polonnaruwa	69	480
Total	247	1638

The Contract Package wise information on tree removal and re-planting are shown in **Annexure VI**.

But, in the year 2020 there were no any Tree re-planting programmes were held.

7. Garbage collection

The garbage collection was evident at site offices, project offices and camp sites in all the CPs from beginning of the project. CPs have installed garbage bins at each site in accordance with the type of garbage. Before to dispose them, they are sorted out such as degradable food, papers, polythene etc. and put them in to relevant bins.

In addition to dust emission, garbage management issue, debris disposal issues, soil contamination from fuel at some storages, flood situation or water logging, drainage issues, soil erosion at Stockpile yards, non-rehabilitated Stockpile yards, workers safety issues and

mosquito breeding places were some other Environmental issues. But they are not significant like highways, express ways or hilly terrains. The ***Annexure V*** shows the Environmental issues and Safeguards compliances.



Properly Stockpiled at KU 05-R – Road ID 83



Waste segregation – KU 05-R Site Office

6.0: Public consultation and information dissemination

The Public consultation is a principal requirement of the iRoad Program. The importance of this requirement is described in **Chapter V** of the **EARF**.

When the project is identified, public consultation had been applied during the Transect Walk activity. Public had been consulted individually, group wise and public meeting wise at the Transect Walk of relevant roads.

The same system was followed during the Construction stage where public consultations were conducted. The meetings of GRC formation at DS level and GND level were also used as vehicles to consult public because community leaders, NGO people, women groups, clergies and line agency representatives are invited to participate in. In addition to that, individual consultations, group discussions etc. were also conducted to collect ideas and build awareness in the project. Apart from that, refreshing Transect Walks were done after conducting the meeting. The ideas, suggestions, requests and complaints from the public were received and they are considered as important inputs when designing the roads.

The contractors are implemented their own Transect Walks at each road to identify issues and obtain the community knowledge to design the road. However, the Contractor is bound to conduct a Transect Walk before road design in accordance with the **Foot Note No. 15 of Clause No. 55 in the Updated Facility Manual on 15th of March 2018**.

The Contractors were published posters at public places to inform the public to send their issues related to road constructions. Additionally, complaints/suggestions/requests boxes were erected at all the roads to obtain the community perceptions for the road rehabilitation.

There are two ways of information dissemination in this project. One of them is government officers who are working with day-to-day life of the people such as Grama Niladhari (GN = Village Officer), Divisional Agrarian Services Officer, Agricultural Research and Production Assistants, Economic Development Officers and Divisional Secretaries. All the Field Officers are

aware of the project by participating in the GRC formation at GN level and DS level. Other way is Public Notices (Green Notices) demonstrated at the public places such as Paper notice and Road notice name boards with the basic information.

7.0: Programs and activities to enhance the Environment

Mr. Saranga Gajasinghe/CSD/SG Specialist assisted when and where the PIC required his assistance to implement the Environmental and Social Safeguards activities in NCP and NWP. Very often he participated in the site visits as mentioned above table and involved in mini workshops of Environmental and Social Safeguards conducted for PIU and PIC 02 staff until the end of 2019. Then he was joined to the ADB/SLRM directly as the Focal Point of the Environmental section. But he has guided us to join the 'Online Training Programmes which are organized by the ADB during the lockdown period of the whole country (Sri Lanka) due to the COVID-19 epidemic. The **Table 44** briefs Mini Workshops conducted by PIC 02 and ADB except specially focused Environmental capacity building programs because they are in **Annexure II**. In this table, the HIV/AIDS programme conducted by the Contractor of KU 03-R is mentioned.

Table 44: Environmental related capacity programmes conducted during year 2020

No.	Date	Name of the Programme	Brief Description of the Programme	Resource persons and Target Group	Nos. attended
01.	04.09.2020	Workshop on HIV-AIDS Awareness Program by Contractor – KU 03-R	<p>01. Current situation on HIV/AIDS and STD in Sri Lanka</p> <p>02. Spreading of communicable and non-communicable diseases</p> <p>03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services</p> <p>04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD</p> <p>05. Lectures about 'Happy family' and Healthy life style.</p> <p>06. HIV Rapid Test is done by taking Blood samples of participants if they wish to do.</p>	<p>Doctors from MOH</p> <p>To RDA, PIC02 and Contractor Road related community</p>	150
Online Training Programmes conducted by ADB					
No.	Date	Description of the Work shop			
1.	17.04.2020	Online Training Program of E&S Risk Assessment Workshop, CSRP PMU by Mr. Saranga Gajasinghe.			
2.	21.04.2020	Online training - Land Acquisition Act, Regulations and Directives - Mr. Dayarathne (Sinhala)			
3.	24.04.2020	Online Training - Legal Framework of Involuntary Resettlement safeguards – Mr. Harsha Fernando			
4.	28.04.2020	Online Training - Sinhala Voice Typing and Telling your story using Google Earth. – Eng. Anuradha Piyadasa.			

5.	05.05.2020	Online Training of Screening for Climate Change and Disaster Risks in Development Projects and ADB requirements - Mr. Karma Yangzom
6.	12.05.2020	Online Training - Environmental Compliance Promotion – Mr. Bing Rufo, Environment Specialist, ADB
7.	15.05.2020	Online Training - RAP Compliance Monitoring - Mr. Saifulla Dostogir, Independent Monitor, Akhaura - Laksam Double Track Project, Bangladesh.
8.	19.05.2020	Online Training -Grievance Redress and Complaints Handling" will be delivered by Mr. Bing Rufo, Environment Specialist, ADB
9.	26.05.2020	Online Training - How to write an EIA by Karma Yangzom, Principal Environment Specialist

In 2017, 6 School Awareness Programmes on selected schools have been conducted by KU 01, KU 03, KU 05, PU 02 and AP 03. Details of them had been included in the Environmental Compliance Monitoring Report of 2017. Therefore, only one School Environmental Awareness Programme was conducted in 2018 are mentioned as per the **Table 45**. But in 2019, there are no any School Awareness Programmes have been conducted because NCP packages are already completed the project. And KU 01, KU 02 & PU 01 packages also completed. But other packages were terminated and some were re-tendered during the year 2020. They are KU 03-R, KU 05-R, PU 02-R1, PU 02-R2 and PU 03-R. But they were not done any School Awareness Programmes during the reported period because of the COVID-19 pandemic.

By the end of 2020, all the Contract Packages have removed trees after obtained the approval from DS. The total No. of trees removed is 247 and estimated No. of trees to be replanted is 741 at the ratio of 1:3. However, 1638 number of trees have been planted. This is a very good progress of tree planting programmes. But some plants were dying because of the poor maintenance, drought seasons and lack of nutrients. Again, re-planted the trees in these packages AP 02, AP 03 and KU 02. **Annexure VI** shows the progress of the tree planting programmes of Contract Packages. Most of the Contractors used schools as supportive partners in this programme by arranging Environmental School Awareness Programmes for students and sometimes assisting to help them giving required accessories or constructing a physical requirement such as playgrounds etc.



Picture No: 21 GAP Workshop



Picture No: 22 GAP Workshop



Picture No: 22 – Awareness Programme



**Picture No: 24 – Orientation Programme – KU
03-R**



**Picture No: 25 – Orientation Programme – KU
05-R**



**Picture No: 26 – Orientation Programme – KU
05-R**

Table 45: School Environmental Awareness/Training Programmes

S. No.	CP	Date	School	Theme of the program	No. of Participated Students	Other Participated	Years of Students	Resource Person/s
01.	KU 01	06.12.2017	Rewatha Central School, Udawela (Rd ID 34)	Road Safety	100	30	Grade 9 & 10	Mr. S.K. Delay (Mechanical Engineer - RDA)
02	KU 03	22.06.2017	Watareka Maha Vidyalaya	Climatic Changes and Natural Disasters	145	06	Grade 05 to 13	Mrs. Padmini Weeraratne – ESO
		17.10.2017	Kanawa Vidyalaya	Waste Management	45	10	Grade 01 to 11	Mrs. Padmini Weeraratne – ESO
		30.01.2018	Raddhagoda Maha Vidyalaya, Raddhagoda.	Wetland Conservation	100	08	Grade 04, 05 & 06	Mr. Ranjith Gunarathne
		13.06.2018	Boyagane Vidyalaya	How to protect the Environment	55	10	Grade 08 & 09	Mr. Ranjith Gunarathne
03	KU 05	16.11.2017	Ni/Wa. Naramana Maha Vidyalaya	About Tree Planting	80	15	Grade 03 to 04	Mr. R.A.J. Ranasinghe – ESO Mr. A.A.H.M. Atapattu - ESO
04	PU 01	13.06.2017	Ananda Maha Vidyalaya	Dengue Prevention Program	173	10	Grade 09 & 10	PHI and Police Officer
05	PU 02	25/10/2017	Dhammaloka Vidyalaya, Kelegama (Road ID 26)	About Natural Resources	60	10	Grade 05 to 06	Miss. I.H.A.H.I. Amarasinghe – ESO Miss. H.S.O. Mendis - ESO
		13.06.2017	St. Mary's College	Dengue Prevention Program	198	10	Grade 09 & 10	PHI and Police Officer
06	PU 03	13.06.2017	Carmel Convent	Dengue Prevention Program	169	10	Grade 09 & 10	PHI and Police Officer
07	AP4	19.01.2018	Ho/Ruwanweli Central College-	Garbage management	79	16	Grade 1-5	Mr. Amila Chandana – ESO Environmental Officer (CEA)

8.0 Road handing over and PBM

The roads are handing over to the Client/Employer by the Contractor when after the Civil works are completed. Hence, the Contractor has to comply the list of Environmental related activities before the official handing over process. The Checklist is in the below;

Figure 25: Checklist of Environmental related Road Rehabilitation

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iRoad Program – NCP & NWP

Checklist of Environmental Related Road Rehabilitation

District:

Contract Package: Road ID:

Activity	Yes	No	If 'No' Location	Remarks
Compensatory tree planting Completed				
Cut trees handed over to STC/relevant bodies				
Harmful utilities removed or Barricaded				
No harm to common properties				
No blocked/disrupted drainage system				
No land slide effects are remained due to construction				
No flood or stagnation of water due to Contractor's activity				
Borrow pits have been rehabilitated				
Satisfaction letters from borrow pit land owners obtained				
Stocked pile yards have been rehabilitated				
Satisfaction letters from stocked pile land owners obtained				
Land of offices and storage yards have been restored				
Satisfaction letters from land owners of offices and storage yards Obtained				
Proper slope protection measures applied				
No soil contaminated areas from fuel/lubricants				

Activity	Yes	No	If 'No' Location	Remarks
Any land used for construction activities have been restored to the satisfaction of land owner				
Construction camps and lands have been rehabilitated to the satisfaction of land owner				
No heaps of solid waste at the site.				
Debris has been removed				
Rock boulders spread along the road sides have been removed				
Disposal sites have been rehabilitated to the satisfaction of Land owner.				
Safety/warning signage has been erected adequately.				
Contractor owned quarries have been rehabilitated to the satisfaction of land owner.				
Contractor owned asphalt plant have been rehabilitated to the satisfaction of land owner.				
Contractor owned crushers have been rehabilitated to the satisfaction of land owner.				
Contractor owned batching plants have been rehabilitated to the satisfaction of land owner.				
Others: (Specify)				

.....
Signature of observer

.....
Date

.....
Name and Position

.....

The Contractor has a SAC period after the handing over of a road. Then the PBM is starting. Therefore, the Contractor has to catch up and preventive maintenance. PBM works shall consists of activities necessary in or order to keep the road in compliance with specified

performance of service levels. Maintenance services shall include all activities required to achieve and keep the road with performance of service levels. The PBM shall mainly consists of the following routine maintenance works;

- a) Maintenance of Carriageway.
- b) Maintenance of Road Side.

And also consists of other requirements such as.

- 1.2 . Implementing and managing the site safety.
- 1.3 . Implementing and managing traffic management along the road.
- 1.4 . Maintaining access to adjacent properties.
- 1.5 . Carrying out works without adversely affecting the environment.
- 1.6 . Establishment and Maintenance of a Call Center.
- 1.7 . Performance of works with due care and responsibility.

Note: All the NCP packages, KU 01, KU 02 and PU 01 packages are under PBM period. Therefore, only PU 01 is monitoring by the PIC 02 and others are relevant owners of the roads.

9.0: Special construction activities to mitigate the Environmental issues incorporated into the design for complying the 'All-weather roads' concept.

- ***Rip-Rap protection for mitigate the soil erosion of road embankment and Catch pit implement for excess water drain into the line drains.***



Picture No. 27: AP 04 Road ID 34



Picture No. 28: KU 02 Road ID 101

- ***Hard shoulder constructs for avoid shoulder erosion where there are water flowing areas and Rubble pitching.***



Picture No. 29: KU 02 Road ID 02



Picture No. 30: PU 01 Road ID 43

- *Road sign boards include to where the animals are crossing the roads such as Elephants and safeguard the road users as well.*



Picture No: 31 AP 01 Road ID 36



Picture No: 32 PU 01 Road ID 07

- ***Causeway included to flow the excess water over the roads when heavy rains and Rubble pitching constructing for control the high velocity drains.***



Picture No: 33 PU 01 Road ID 43



Picture No: 34 PU 01 Road ID 43

- ***Guard stones and Chevron boards including as safety precaution.***



Picture No. 35: PU 01 Road ID 05



Picture No. 36: PU 01 Road ID 05

COVID – 19 Epidemic Situation and updates of the PIC 02

On 16th of March 2020, the Country was lock down and the Civil works were stopped until 20th of April 2020. Then, the two newly appointed re-tendered packages which are KU 03-R and KU 05-R were started their construction activities. Therefore, all precautions and preventive methods were implemented at the sites, and offices. Moreover, several meetings were called to aware and discuss about the 'Working under COVID – 19 Epidemic' and given the guidelines as follows;

The Construction Industry Development Authority (CIDA) Sri Lanka under the Ministry of Urban Development, Water Supply & Housing facilities (Established under the Construction Industry Development parliamentary ACT No. 33 of 2014) has prepared a Guideline about Prevention COVID-19 as Health and Safety Guidelines for Sri Lankan Construction Sites to be adopted during COVID-19 outbreak- Version 2.0 (Revised)/ 26th May 2020.

The Guideline is meant to be followed by construction sites operating in Sri Lanka during the critical observation period of Coronavirus COVID-19 epidemic and aim to prevent spreading of the Virus and to promote good health among construction workers and staff.

This is consisting of two parts such as,

Part1 - Contains good practice guidance including the mandatory requirements of the health authorities and directions from selected guidelines of the Ministry of Health and Indigenous Medical Services for Construction sector.

Part 2 - Contains supplementary practices to ensure the sustenance of the sector by enhancing the immunity as recommended by Traditional Native and Ayurveda medical practice.



Meetings conducted for COVID - 19



Meetings conducted for COVID - 19

• Effect of COVID-19 Second Wave on KU3-R Package

The COVID-19 Second wave has directly influenced on KU3-R contract package with the identification of three COVID-19 positive employees.

Mr. W.P.D.H. Wijesundara; Office Engineer of the package was permitted to self-quarantine from 16th of October 2020, with the instructions from the Public Health Inspector – Yaggapitiya as his father was identified positive for COVID -19 on 15th of October 2020. This Office Engineer is from Veyangoda area and he has become a first contactor of his father as he visited home on 04th of October 2020. Details of this Office Engineer as follows.

- Name: W.P.D.H. Wijesundara
- Designation: Office Engineer
- NIC No.: 199616300053
- Permanent Address: 327, Eluwapitiya, Veyangoda.
- Present Address: No.12, “The Breeze”, Deduruoya, Thorayaya.

With the instructions from the PHI – Yaggapitiya, five employees who are living in the same accommodation of Mr. W.P.D.H. Wijesundara, were also quarantined from 22nd of October 2020. Details of these staff members are as follows.

S/N	Name	Designation	NIC No.	Permanent Address	Present Address
01	P.M.D.A.R. Philip	Store Keeper	196524100200	2520, Chilaw Road, Waikkala.	No.12, “The Breeze”, Deduruoya, Thorayaya.
02	J.P.S.S. Ayeshmantha	Stores Assistant	983632157V	Galmuna, Dorawaka, Warakapola.	
03	M.D. Dharmapriya	Draughtsman	923640231V	No.260, Pethigamuwa, Halhota, Bandaragama.	
04	B.G. Pushpakumara	Asst. Store Keeper	713560707V	No.352/A, Yalegoda, Handessa, Peradeniya.	
05	V.P.R. Madhushanka	Driver	930130184V	No.4301, Samagipura, Viharagala, Sooriyawewa.	

The 06 persons mentioned above were directed to the PCR tests with the guidance of PHI – Yaggapitiya, on 23rd of October 2020. According to the results of this PCR test received on 27th of October 2020, 05 persons out of these six were detected as negative for COVID-19 and one person's sample was identified as a doubtful sample and he was directed for another PCR test on 28th of October 2020.

Meantime a random PCR test was done from a reputed private laboratory (Durdans Laboratory) on 26th of October 2020 for 19 employees including 02 from the consultant staff as well. All of these 19 samples were detected as negative on 29th of October 2020.

Also the person whose sample was detected as doubtful from the PCR test, was identified as positive for COVID-19 from the PCR test done on 28th of October 2020 followed by the results received on 29th of October 2020. The details of COVID-19 positive person is as follows.

- Name: P.M.D.A.R. Philip
- Designation: Store Keeper
- NIC No.: 196524100200
- Permanent Address: 2520, Chilaw Road, Waikkala.
- Present Address: No.12, “The Breeze”, Deduruoya, Thorayaya.

As per the instructions from the PHI – Yaggapitiya and OIC – Police Station, Wellawa, the site office premises were closed immediately starting from 6.00pm of 29th of October 2020. All the office staff were quarantined in their accommodations and also it was instructed to close the site works and to self-quarantine all site personnel in their accommodations. The patient was accompanied with Government Ambulance service to a Quarantine Center where COVID-19 positive patients are quarantined.

The PCR tests for the quarantined staff personnel were arranged by the relevant Public Health Inspectors assigned for the PHI divisions where accommodations are located. The first PCR test after the beginning of the quarantine period was done on 31st October 2020 for 08 personnel with the guidance of PHI - Yaggapitiya. The results of this test was received on 01st of November 2020 and all 08 persons were negative for the COVID-19 virus infection.

The second PCR test for two members were done on 03rd of November 2020, in Rathnapura and Katupotha (Kurunegala) where these two employees’ residents are located. These two persons were also detected as negative for COVID-19 virus.

Another PCR test was done for 03 staff members from PHI – Bamunawala (Kurunegala) and PHI – Maspotha (Kurunegala) on 04th November 2020. They were also detected as negative for COVID-19 virus.

Next PCR test was done on 05th November 2020 in two locations; PHI Division – Yaggapitiya and PHI Division – Ganewatta. 15 members were checked from Yaggapitiya and 03 members from Ganewatta. According to the results from the PCR tests held in PHI Division – Yaggapitiya, received on 06th November 2020 it was identified that another two employees were positive for COVID – 19 viruses. All other persons were detected as negative for COVID-19 virus. The details of positive persons are as follows.

S/N	Name	Designation	NIC No.	Permanent Address	Present Address
01	V.P.R. Madhusanka	Driver	930130184V	No.4301, Samagipura, Viharagala, Sooriyawewa.	No.12, "The Breeze", Deduruoya, Thorayaya.
02	A.M.T.A. Niranga	Quality Assurance Inspector	871340218V	Medagodella Road, Kurenepola, Rambukkana.	Y.D. Sirisena, Kiriwawula, Thorayaya.

These two persons were also accompanied with Government Ambulance Service on 07th of November 2020 to Ambanpola hospital where there is a quarantine center for COVID-19 patients.

Another PCR test was also done in two locations, Rideegama and Ibbagamuwa for 16 persons on 06th of October 2020. All of these persons were also detected as negative for COVID-19 virus.

Being positive of another two employees, another PCR test round was organized from Durden's laboratory for 37 persons including 02 from consultant staff as well. All of these 37 persons were detected as negative for COVID-19 virus.

Another PCR test round was done on 11th of November 2020 for 16 persons who were quarantined in the accommodations located within PHI Division – Yaggapitiya, including 06 persons from two accommodations where the recent two COVID-19 positive persons were quarantined. All of these 16 persons were detected as negative for COVID-19 virus.

As the quarantine period of most employees was completed on 12th of November 2020, the office works and site works were commenced from 16th of November 2020 with the guidance of PHI-Yaggapitiya. Office premises were disinfected thoroughly before commencing the works.

Another PCR test was done on 19th of November 2020 for 07 employees. Out of these 07 persons, 06 from two accommodations where the recent two COVID-19 positive persons were quarantined. All of these 07 persons were detected as negative for COVID-19 virus. Hence their quarantine period was completed from 22nd of November 2020, they reported to work from 23rd of November 2020.

- **Current Situation in KU3-R Package**

Office and site works were recommenced after the quarantine period, on 16th of November 2020. Other employees who were quarantined until 22nd of November 2020, were also reported to work from 23rd of November 2020.

All of the site works are back to normal now. Works are proceeding while following the COVID-19 preventive guidelines.

Two employees out of the three COVID-19 positive employees are coming back to work after completion of 14 days quarantine period in Ambanpola Hospital Quarantine Center and another 14 days of quarantine in home. The details of these two employees as follow.

S/N	Name	Designation	NIC No.	Permanent Address	Date of attending to Work
01	V.P.R. Madhusanka	Driver	930130184V	No.4301, Samagipura, Viharagala, Sooriyawewa.	07/12/2020
02	A.M.T.A. Niranga	Quality Assurance Inspector	871340218V	Medagodella Road, Kurenepola, Rambukkana.	06/12/2020

- **Preventive Actions taken for COVID-19**

- Providing hand washing facilities at the entrance of the main yard premises, main office premises and laboratory.
 - Measuring and recording of body temperature when entering to the main yard premises.
 - Any person who accounts for body temperature exceeding 37°C is not allowed for entering to the premises.
 - As such situation occurs, the person will be allowed for some time and body temperature will be measured again.
 - If he/she accounts for more than 37°C of body temperature, will be directed to medical treatments.
 - Wearing of a face mask is a mandatory requirement.
 - All the office, stores, laboratory, workshop premises are provided with sanitizers.
 - Disinfection of office, stores, and laboratory premises is carried out in a regular basis.
 - All the site personnel will be aware about the preventive measures that should be adopted for COVID-19.
 - Displaying of posters to aware the people on preventive measures for COVID-19.
- ❖ There is no any Direct effect for the KU 05- R Package and the COVID – 19 Safety Plan was implementing.



Disinfection of Project Office Premises – KU 03-R



PCR test done on 26th October 2020 from Durden's Laboratory for 19 persons – KU 03-R



PCR test done on 26th October 2020 from Durden's Laboratory for 19 persons – KU 03-R



PCR test done on 07th November 2020 from Durden's Laboratory for 37 persons – KU 03-R



COVID – 19 Awareness Programme – KU 03-R



COVID – 19 Awareness Programme – KU 03-R



Hand Washing – KU 03-R Site Office



Hand Washing – KU 05-R Site Office



Awareness Notices – KU 03-R



Hand Washing Place – KU 05 - R



Awareness Notices – KU 03-R



Temperature measuring – KU 05-R



Awareness while Toolbox meetings – KU 03-R



Notices for the awareness – KU 03-R



Measuring temperature – KU 05-R



Distributing leaflets abouts COVID - 19

Daily Progress after Recommencement of works

Name of the Contractor : RR Construction (Pvt) Ltd.

Contract Name : REHABILITATION / IMPROVEMENTS OF 99.10 KM OF RURAL ROADS IN KURUNAGALA DISTRICT IN NW PROVINCE – PACKAGE KU3-R

Contract Package : RDA/ADB/ROAD (NW)/NCB/CP-RR (KU3-R)

Date

From

25th of December 2020

To

31st of December 2020

SE No	Description	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
1	Availability of Contractor's Staff	25/12/2020 26/12/2020 27/12/2020 28/12/2020 29/12/2020 30/12/2020 31/12/2020						
	No of staff personnel above Supervisor	62	61	62	61	62	57	61
		M-55 F-07	M-54 F-07	M-56 F-06	M-56 F-05	M-55 F-07	M-50 F-07	M-54 F-07
	No of Drivers/Operators	27	28	28	28	30	29	36
		M-27 F-00	M-28 F-00	M-28 F-00	M-28 F-00	M-30 F-00	M-29 F-00	M-36 F-00
	No of Labourers	37	39	31	32	37	35	37
2	Staff & Labour Accommodation							
	No of staff members							
	Coming from Home or having individual Accommodation	6	5	5	5	6	5	6
		M-05 F-01	M-04 F-01	M-04 F-01	M-04 F-01	M-05 F-01	M-04 F-01	M-05 F-01
	Coming from Accommodation provided by contractor	45	50	45	50	47	49	45
		M-40 F-05	M-44 F-06	M-40 F-05	M-46 F-04	M-43 F-04	M-43 F-06	M-40 F-05
	No of Drivers, Operators and Labourers							
	Coming from Home	7	7	6	6	7	07	7
		M-06 F-1	M-06 F-01	M-05 F-01	M-05 F-01	M-06 F-01	M-06 F-01	M-06 F-01
	Coming from Accommodation/ Billets provided by contractor	55	60	58	55	62	58	55
		M-55 F-00	M-60 F-00	M-58 F-00	M-55 F-00	M-62 F-00	M-58 F-00	M-55 F-00
3	Work Done (major works)							
	Aggregate Base Course / cum(loose qty)	54	40	41	56	20	60	50
	Concrete Works/ Cum	40	20	20	30	26	40	20
	Earth Filling /cum (loose Qty)	30	40	45	28	30	29	28
	Asphalt Concrete/t	—	—	—	—	—	—	—

List of Roads where works have been recommended

- Road works of Road ID 37, 39, 20, 40, 87, 84, 17 and 23
- Structure works in Road ID 20, 23, 40, 37, 39, 40 and 84

For, 
Contractor/ PM


Engineer/ RE

Comments on practices at site for prevention of COVID 19 Pandemic

1 Contractor's Safeguard officer - COVID 19

Adequate sanitary facilities are provided at the moment in order to prevent from COVID 19 virus.
Also, the COVID 19 Safety work Plan is implementing.
Site and office works were started from 16/11/2020 after disinfection of the office premises.
Quarantine period of all staff members have finished.

2 Engineer's Safeguard officer - COVID 19: Can be satisfied about the implementation of COVID -19 Safety Plan. But unexpectedly effected from the COVID-19 Second wave. Therefore, whole package was quarantined. Anyhow, all the necessary actions were taken by the relevant authorities. Now, the package is backed to normal.
Also, all the preventive methods and guidelines following up.

3 Employer's Safeguard officer - COVID 19

According to the observations by Safeguard officers- COVID 19

	Contractor	Engineer	Employer
Site activities are going on with compliance to the requirements in Guidelines/Health Safety plans prepared for COVID 19 Virus	Highly Satisfactory	Highly Satisfactory	Highly Satisfactory
	Good ✓	Good ✓	Good
	Not Satisfactory	Not Satisfactory	Not Satisfactory


Signature of Safeguard officer
Contractor


(ESSO/PIC OR)
Signature of Safeguard officer
Engineer

Signature of Safeguard officer
Employer

Daily Progress After Resumption of Works

Name of the Contractor :

Finite Lanka (Pvt) Ltd

Contract Name :

REHABILITATION / IMPROVEMENTS OF 104 Km OF RURAL ROADS IN THE KURUNAGALA DISTRICT- CONTRACT 5 INCLUDING PERFORMANCE BASED MAINTENANCE FOR THREE

Contract Package :

RDA/ADB/ROAD(NW)/NCB/CP-RR(KUS-R)

Date

From 25th of December 2020...

To 31th of December 2020...

SE No	Description	Day 1 (Dec-25)	Day 2 (Dec-26)	Day 3 (Dec-27)	Day 4 (Dec-28)	Day 5 (Dec-29)	Day 6 (Dec-30)	Day 7 (Dec-31)
1	Availability of contractor's Staff							
	No of staff personnel above Supervisor	36	42	36	39	36	42	42
		M-34 F-2	M-35 F-7	M-34 F-2	M-34 F-5	M-33 F-3	M-36 F-6	M-36 F-6
	No of Drivers/Operators	39	45	44	52	50	55	52
2	No of Drivers/Operators	M-39 F-0	M-45 F-0	M-44 F-0	M-52 F-0	M-50 F-0	M-55 F-0	M-52 F-0
	No of Labourers	85	100	99	115	108	115	113
		M-77 F-8	M-82 F-18	M-81 F-18	M-93 F-22	M-89 F-19	M-98 F-17	M-98 F-15
	Staff & Labour Accommodation							
2	No of staff members							
	Coming from Home or having Individual Accommodation	10	13	10	13	10	13	13
		M-9 F-1	M-5 F-7	M-8 F-2	M-8 F-5	M-7 F-3	M-7 F-6	M-7 F-6
	Coming from Accommodation provided by contractor	26	26	26	26	26	29	29
2	No of Drivers, Operators and Labourers	M-26 F-0	M-26 F-0	M-26 F-0	M-26 F-0	M-26 F-0	M-29 F-0	M-29 F-0
	Coming from Home	90	100	99	115	108	115	113
		M-82 F-8	M-82 F-18	M-81 F-18	M-93 F-22	M-89 F-19	M-98 F-17	M-98 F-15
	Coming from Accommodation/Billets provided by contractor	34	45	44	52	50	55	52
3		M-34 F-0	M-45 F-0	M-44 F-0	M-52 F-0	M-50 F-0	M-55 F-0	M-52 F-0
	Aggregate Base Course / cum (loose qty)	Scubes	135.7 cubes	14.4 cubes	63.2 cubes	36.5 cubes	5 cubes	5 cubes
	Concrete Works/ Cum	9.2m3	4.6 m3	11.2 m3	8 m3	5.6 m3	7.6 m3	6.8 m3
	Earth Filling /cum (loose Qty)	128cubes	117 cubes	3 cubes	4 cubes	0 cubes	16 cubes	11 cubes
3	Site Clearing for shoulder Work	No clearing works	No clearing works	No clearing works	No clearing works	No clearing works	No clearing works	No clearing works
	Survey Work	RD 29: ABC correction checking & undulation 4+250-4+760	RD 29: Asphalt Levelling 0+000-0+400	RD 29: Centerline & Offset Stakeout 5+070-5+300 RD 61: Chainage Marking	RD 29: Asphalt Levelling RD 77: ABC Level Checking	RD 29: Asphalt Level checking 4+245-4+800 RD 77: ABC Final Level checking	RD 29: Asphalt Level checking RD 77: ABC Final Level checking	RD 29: Asphalt Level checking RD 77: Asphalt Level checking
	Asphalt Concrete/Mt	0	0	0	0	159	0	168

List of Roads where works have been recommenced

1 26

561

229
365
462

670
777
895

9.61
10.79
11.83

[Signature]

Contractor/ PM

[Signature]

Engineer/ RE

Comments on practices at site for prevention of COVID 19 Pandemic

1 Contractor's Safeguard officer - COVID 19

1. 1 m Social distancing was maintained throughout the site.
2. Face masks were compulsory to wear at site & office premises.
3. All the other health practices were strictly observed by SO.

2 Engineer's Safeguard officer - COVID 19

Can be satisfied about the implementation of COVID-19 Safety Plan at the Site Office and the working site. Daily Progress also can be accepted. There is no any effect from the COVID-19 Second wave.

3 Employer's Safeguard officer - COVID 19

According to the observations by Safeguard officers- COVID 19

	Contractor		Engineer		Employer	
	Highly Satisfactory		Highly Satisfactory		Highly Satisfactory	
	Good	✓	Good	✓	Good	
	Not Satisfactory		Not Satisfactory		Not Satisfactory	

Site activities are going on with compliance to the requirements in Guidelines/Health Safety plans prepared for COVID 19 Virus

[Signature]

Signature of Safeguard officer
Contractor

[Signature]
(ESSO/PSC02)
Signature of Safeguard officer
Engineer

Signature of Safeguard officer
Employer

10.0: Conclusions and Recommendations

10.1: Conclusions

1. This is the Annual Environmental Compliance Monitoring Report for the time period from January 2020 to December 2020. In 2020, the NCP was already completed the Civil works. Therefore, the NCP ongoing with their PBM period. In NWP, only KU 01 and KU 02 packages were successfully completed their civil works and their PBM also ongoing now. PU 01 also completed and in the PBM period. Other Packages; KU 03, KU 05 re-tendered and that packages were commencement their Contracts. At the end of 2020, other terminated packages also commenced their civil works.
2. There are six Contractors in NWP as incapable contractors to complete the project. They are lagging to complete the project or they stopped the abandoned work without completing commenced rehabilitation activities. In that incident, a lot of environmental issues are evident, such as debris, public safety, drainage system and etc. Therefore, unsolved environmental issues remain for a long time. But, during the year 2020, newly appointed packages; KU 03-R and KU 05-R were rectified the previous contractors' issues. And no any significant issues were raised except natural disasters during the reported period.
3. The COVID-19 epidemic was critically affected for the KU 03-R package during the month of October to November. Therefore, that package was lockdown close to a month. But, KU 05-R was not faced for direct effect. But, some of their roads were lockdown. Both packages are strictly considered the preventive methods for COVID-19 Epidemic.
4. When considering the Tree Planting for the removed tree of the project requirements have been conducted successfully in the year 2018. But because of the poor maintenance of some trees which have planted earlier have been died. Therefore, relevant contractors have planted trees again for the ADB guidelines for complying the 1:3 ratio for cut trees re-planting. Hence, the tree planting was done successfully 2019. But during the reporting period there were no any tree-planting programmes.

5. At PIC 02, the Contractors have implemented the civil works, according to the Environment requirement by changing the Engineering design in a favorable way for the Environment. According to the 'All Weather Roads' concept in iRoads, this is an enviable trend for achieve Environmental goals.
6. The terminated packages had lots of Environmental issues because of incomplete constructions. Therefore, emergency and safety permanent works were carried out for taking the roads up to motorable conditions. But the new Contractors are considering all the previous Contractors issues and rectified as much as possible considering the project scope, provisions and viability.
7. The CSD TA Specialist/ Mr. Saranga Gajasinghe was the Focal Point of the Environmental section in ADB/SLRM from the middle of the October 2019. Therefore, he is guiding for us to implement Environmental safeguards successfully in the PIC 02.
8. All the staff in the PIC 02, especially ESSO and SGRO were actively committed in the implementation of safeguards component on the ground level. There are some issues when implementing the Environmental safeguards activities because lack of the knowledge about Environmental section and the importance of the Environment. But due to awareness of the protective benefits of Environmental safeguards, then the people understood. Actually, the correct implementation of the Environmental safeguards will induce cost cutting beneficiaries as well.
9. The road PIC 02 has 227 roads scattered everywhere in the North Central Province and North Western Province. Therefore, practically it is very difficult to manage and monitor the activities related to Environment with the limited staff. So, the appointment of ESSO and DSESAs are very useful. Because then the grass root level they can attend very keen for the issues and can involve to mitigate those. But, now only has two districts. Therefore, the staff was curtailed into one Assistant.
10. The ADB/SLRM has introduced a GIS Base Site Specific online monitoring system in 2018, and then lots of updates were happening in 2019. Therefore, at PIC 02, it was successfully implemented. But some constraints also there when implementing it. But considering the environment/green concepts, it is innovative and non-time-consuming

system as well as wasting paper for reporting is reduced. It's more advisable for achieving the Environmental objectives.

11. Both RR and Finite contractors are considering the safety required level. They have supplied personal safety gear for every worker. At many times, staff level some Site Officers have not worn safety gear. Barricading at required works sites not properly erected. Some Contractors have not had SOs. If available, they do not have knowledge and required experiences. Some SOs are staying at their PM's office doing other work not going to the sites. The financial issues faced by the Contractors are the major issue according to the observation. The sub-contractors deployed by some contractors are the reason for safety issues. They do not know the importance of personal safety equipment and community/public safety. The attention paid by contractors in this matter is very least.
12. Some of the contractors have not been paying their strict attention for the PBM, because the contractors are already de-mobilized from the sites and only one office is maintained. Therefore, it is advised to implement it correctly.

10.2 : Recommendations

1. 'The ESOs of Contractors had looked after more than 11 roads scattered everywhere in their contract packages. Many the roads are stretched through the forest areas where wild elephants are roaming. When monitor the Environmental safeguards activities they have to go on the roads very often. On the other hand, they are going to many government offices and other places to obtain environmental related licenses/permits and to collect required data. Except very few PMs, others have not provided suitable transport facilities to ESOs. Therefore, such ESOs are working without job satisfaction. They do the job only for earning money for livelihood. This is a bad and the worst situation faced by more ESOs. In accordance with the ADB and Sri Lanka Government, Safeguards Policies are very significant and powerful component amongst others. The success of this prominent component depends on the compliance and performance of work on the site. If the ESO does not have a suitable vehicle to use in any climatic situation, the objective of the safeguard policies is not achieved.

This issue was mentioned in the 2019 report also. But yet there's no proper solution has implemented for this. Therefore, it is better to consider this problem strictly in future projects and there should be a legal obligation of the Contractor to supply suitable safety vehicle for ESOs to travel transport in difficult areas.

2. The Environment, Conservation is a strict guideline in the ADB Environmental Policy Statement and EARF as well. But practically it is not implemented well, according to the required level. Therefore, it is better to pay attention for this component very keenly and rules and regulations should be considered.
3. A penalty system for Environmental safeguards violations should be encouraged by introducing reasonable penalty. In this way, delay of environmental issues rectifications can be accelerated. The decision of penalty should be decided by the Engineer.
4. The Client should pay more attention to select Environmentally sound and financially capable Contractors when Bid documents are reviewed.

5. In this iRoads, there are no any Environmental quality testing applications such as water quality, air quality and etc. Therefore, in future it is better to implement those for in a favorable way. Additionally, the GIS based SSESMS or Online systems will be implemented in future is an essential.
6. The ESOs of this project (whether PIU or PIC or Contractors) are contributing their fullest support with a team spirit, to achieve the civil works by doing least affect the environment. But the facilities and remuneration are not in a satisfactory level. Therefore, kindly requesting to implement a facility manual for them as well.
7. Online training programmes which were done by the ADB is very useful. Hence, it is better to organize more workshops to capacity building programmes.
8. Most important thing is refreshing workshops should be implemented to extract the innovative systems for the Environmental safeguards. Especially, the green concept implementation is very important.

Annexure I.**Recruitment Details of Environmental and Social Officers (ESOs)****1. Recruitment Details of the Contractor's ESOs (NWP)**

Contract Package	Serial No.	Name of ESO	Appointed Date	Resigned Date
KU 01	1.	Mr. Lanka Wickramaarachchi	20.08.2016	20.03.2017
	2.	Mr. M.A.J.S. Nawarathne	27.03.2017	31.05.2017
	3.	Mr. W.S.M.T. Ubayawardhana	18.04.2017	25.09.2017
	4.	Mr. A.K.U. Rathnasekara	23.05.2017	31.01.2019
KU 02	1.	Mr. G.M.K.G. Dissanayake	15.08.2016	15.02.2017
	2.	Miss. D.P. Attanayake	06.03.2017	16.10.2017
	3.	Mr. M.A.M. Weerasinghe	10.06.2017	17.10.2017
	4.	Mr. T.D.N. Gunathilake	08.12.2017	29.12.2017
	5.	Miss. Tharaniya Joganathan	17.01.2018	25.02.2019
	6.	Miss. Hamsathuwany Muthukumarasamy	17.01.2018	19.10.2019
KU 03	1.	Mrs. S.D.P. Weerathne	01.09.2016	05.09.2018
	2.	Mr. G.P.R. Gunarathne	05.06.2017	23.11.2018
KU 03-R	1.	Miss. N. A. Gayani Nisansala Dias	13.02.2020	Still working
	2.	Miss. R. M. Nirosha Madhushani Rathnayake	29.05.2020	Remotely working
KU 04	1.	Mr. J. Bragathieswaran	25.10.2016	26.01.2017
	2.	Mr. V.G. Sunil Piyasiri	26.01.2017	10.02.2019
	3.	Mr. R.M. Amarasekara	15.02.2017	17.02.2018
	4.	Miss. A.F. Fayasa	17.02.2018	13.06.2018
	5.	Mr. Mohamed Cassim Najmul Hussain	26.06.2018	28.02.2019
	6.	Mr. A.A.H.M. Atapattu	18.03.2018	04.06.2019
KU 05	1.	Mr. Ajith Samansiri	14.08.2016	31.01.2017
	2.	Mr. R.A.J. Ranasinghe	15.03.2017	01.06.2018
	3.	Mrs. M.C.P. Dilrukshi	22.06.2017	24.10.2017
	4.	Mr. A.A.H.M. Atapattu	09.11.2017	23.12.2018
	5.	Mss. K.H. Siriwardhane	05.06.2019	07.08.2019
KU 05-R	1.	Mr. Suranga Madhura Kumara	20.05.2020	11.10.2020
	2.	Mr. M. D. P. K. Gunathilake	01.07.2020	25.10.2020

Contract Package	Serial No.	Name of ESO	Appointed Date	Resigned Date
	3.	Miss. Y. A. P. Arunoda Amarasena	14.09.2020	Still working
	4.	Mr. S. M. Hewavitharana	28.09.2020	Still working
PU 01	1.	Mr. R.M. Amarasekara	01.09.2016	14.02.2017
	2.	Mr. D.B. Jayathilake	06.09.2016	02.04.2017
	3.	Mr. W.M. Weerakoon	13.05.2017	21.08.2018
	4.	Miss. M.W.P.N.S. Senanayake	01.12.2017	15.11.2018
	5.	Miss. T.H.A. Darshani	20.08.2018	28.02.2020
PU 02	1.	Miss. I.H.A.H.I. Amarasinghe	20.10.2016	31.07.2019
	2.	Miss. H.S.O. Mendis	26.02.2017	25.08.2018
PU 03	1.	Mr. Nishan De Silva	14.09.2016	14.09.2017
	2.	Mrs. M.N. Niroshika	19.09.2017	04.01.2018
	3.	Mr. W.K. Palliyaguru	26.02.2017	27.02.2018
	4.	Miss. Lakmini Jayasinghe	08.01.2018	11.03.2018
	5.	Mr. R. Manoj	26.02.2018	18.09.2018
	6.	Mr. R. G. C. Jayathilaka	23.04.2018	15.03.2019
	7.	Mr. T. A. D. Savinda	29.08.2018	11.01.2019

2. Recruitment Details of the Contractor's ESOs (NCP)

Contract Package	Serial No.	Name of ESO	Appointed Date	Resigned Date
AP 01	1.	Mr. A.M.R.S. Adhikari	13.09.2016	25.11.2018
	2.	Mr. K.R. Fernando	20.03.2017	07.09.2017
	3.	Miss. P.H.K. Geethanjalee	25.09.2017	31.10.2018
AP 02	1.	Mr. B.M.S.E. Basnayake	03.10.2016	06.05.2017
	2.	Mr. G. Theavivirathan	12.03.2017	25.08.2017
	3.	Mr. R.A.D.M.S. Sanjeewa	02.06.2017	31.07.2017
	4.	Mr. N.M.N.K.T. Gunathilake	17.08.2017	19.06.2018

	5.	Mr. K. Asirith Sachira Rupasena	19.06.2018	19.06.2019
AP 03	1.	Mr. K.A.R. Dharmakeerthi	22.08.2016	09.05.2018
	2.	Mr. Lakmal Gunarathne	01.11.2017	05.11.2018
	3.	Miss. M.W.P.N.S. Senanayake	19.11.2018	11.11.2019
AP 04	1.	Mr. S.J.K. Gamage	03.12.2016	31.12.2016
	2.	Mr. S.D.N.A.N.A.N. Weerasinghe	24.01.2016	14.06.2016
	3.	Mr. G.G.K.S. Pathirana	05.06.2016	01.01.2019
	4.	Mr. L. Weerasinghe	17.08.2017	09.05.2018
PO 01	1.	Mr. D.S.C.K. Wijesinghe	16.10.2016	12.07.2018
	2.	Miss. A. U. C. Niranjala	02.01.2017	01.03.2018
	3.	Miss. Chalani Jayakody	07.07.2018	08.01.2019
PO 02	1.	Mr. H.M.S.W.K. Jayasundara	18.08.2016	06.07.2017
	2.	Mrs. P.H.D. Dayarathne	01.12.2016	06.07.2017
	3.	Mr. G.W.N.T. Kumara	26.06.2017	20.01.2018
	4.	Mrs. S. Silojah	06.09.2017	15.12.2017
	5.	Mrs. U.U.I. Somarathne	18.12.2017	02.03.2018
	6.	Mr. Gamini Ambalathenna	01.02.2018	31.07.2018
	7.	Mr. W.M. Weerakoon	03.09.2018	28.02.2019
PO 03	1.	Mr. R.M.T.O. Dissanayake	01.08.2016	30.06.2019

Annexure II.**Integrated Road Investment Program (iRoad)****Environmental Safeguards Capacity Building Programmes conducted through iRoad/PIC 02 during 2020**

No .	Date and Venue	Name of the Programme	Brief Description of the Programme	Resource persons and Target Groups	Nos. of attended
1.	06.02.2020 & 07.02.2020 At the Golden Crown Hotel in Kandy	Gender Officer's Training and Quarterly GAP updates	<ul style="list-style-type: none">Discussion about implementation of GAP activities and Quality improvement of quarterly GAP update.	Mr. Sudarshana Jayasundara/ Senior Social Development and Gender Specialist of ADB/SLRM Mr. Francesco Tornieri/ Principal Social Development Officer, SAOD-PR, SARD, ADB Ms. Shadeepa Ranmini Vithanagama/ Gender Specialist, Consultant, SLRM, ADB Ms. Puri Gamon/ Associate Social Development Officer, SAOD-PR, SARD, ADB To Key staffs of Client, Consultants and Contractor in iRoad Program and ADB	Total: 50 Male - 25 Female - 25

No .	Date and Venue	Name of the Programme	Brief Description of the Programme	Resource persons and Target Groups	Nos. of attended
				funded Projects	
2.	28.05.2020 At CE's Office (KU 03-R) of PIC 02, iRoad Project, NWP	An Orientation programme for newly appointed Contractors for re-tendered package KU 03-R about 'Environmental and Social Safeguards Compliance in iRoad'	<ul style="list-style-type: none"> • Discussion of objectives and importance of the Project completion. • Environmental Safeguards implementation during the project period. • Social Safeguards implementation during the project period. 	<p>Mr. N. Maddugoda, Social Gender Resettlement Specialist – PIC 02 (iRoad Project) NCP & NWP</p> <p>Miss. Saubhagya N. D. Amaratunge, Environmental Social Safeguards Officer – PIC 02 (iRoad Project) NCP & NWP</p> <p>To Key staffs of the Client, Consultant and the Contractor</p>	<p>Total: 17</p> <p>Male - 14</p> <p>Female - 03</p>
3.	02.06.2020 At CE's Office (KU 05-R) of PIC 02, iRoad Project, NWP	An Orientation programme for newly appointed Contractors for re-tendered package KU 05-R about 'Environmental and Social Safeguards Compliance in iRoad'	<ul style="list-style-type: none"> • Discussion of objectives and importance of the Project completion. • Environmental Safeguards implementation during the project period. • Social Safeguards implementation during the project period. 	<p>Mr. N. Maddugoda, Social Gender Resettlement Specialist – PIC 02 (iRoad Project) NCP & NWP</p> <p>Miss. Saubhagya N. D. Amaratunge, Environmental Social Safeguards Officer – PIC 02 (iRoad Project) NCP & NWP</p> <p>To Key staffs of the Client, Consultant and the Contractor</p>	<p>Total: 20</p> <p>Male - 18</p> <p>Female - 02</p>

No .	Date and Venue	Name of the Programme	Brief Description of the Programme	Resource persons and Target Groups	Nos. of attended
4.	21.07.2020 At CRE's Office of PIC 02, iRoad Project, NWP & NCP	An Awareness Program on Environmental and Social Safeguards – No. 01	<ul style="list-style-type: none"> • Discussion about Environmental and Social Safeguards implementation and issues. • The updating and manipulating of the Public Complaint Registers by considering the previous Contractor's Public Complaint Registers. • Discussion about the importance of doing pre-crack surveys. 	<p>Miss. Saubhagya N. D. Amaratunge, Environmental Social Safeguards Officer – PIC 02 (iRoad Project) NCP & NWP</p> <p>Mrs. S. D. P. Weeraratne, Social Gender Resettlement Officer – PIC 02 (iRoad Project) NCP & NWP</p> <p>To ESOs of the Contract Packages in the iRoad Project, RDA, PIC 02</p>	<p>Total: 10</p> <p>Male - 06 Female - 04</p>
5.	17.09.2020 At CRE's Office of PIC 02, iRoad Project, NWP & NCP	An Awareness Program on Environmental and Social Safeguards – No. 02	<ul style="list-style-type: none"> • Environmental Safeguards; <p>1. Environmental issues and mitigation procedures.</p> <p>2. Specifications about selecting Stockpile yards and Disposal yards.</p> <p>3. Procedures about tree removal and Re-planting programs.</p>	<p>Miss. Saubhagya N. D. Amaratunge, Environmental Social Safeguards Officer – PIC 02 (iRoad Project) NCP & NWP</p> <p>Mrs. S. D. P. Weeraratne, Social Gender Resettlement Officer – PIC 02 (iRoad Project) NCP & NWP</p>	<p>Total: 08</p> <p>Male - 03 Female - 05</p>

No .	Date and Venue	Name of the Programme	Brief Description of the Programme	Resource persons and Target Groups	Nos. of attended
			<p>4. Submission of relevant Reports; SSEMAPs, EMCs, Tree planting reports and etc.</p> <p>5. Monthly Progressive Review Presentation and Monthly Progressive Report - Environmental</p> <ul style="list-style-type: none"> • Social Safeguards; <p>1. Implementation of Road Closure and Road Safety.</p> <p>2. HIV/AIDS Awareness Programme.</p> <p>3. Complaint Boxes and Green Notices (Public Notices).</p> <p>4. Land Donation procedure.</p> <p>5. Monthly Progressive Review Presentation and Monthly Progressive Report - Social</p>	To ESOs of the Contract Packages in the iRoad Project, RDA, PIC 02	

Attention paid for complains, requests and suggestions made at Transect walks, GRC meetings and Complaint Registers.

Current Status: North Central Province, Anuradhapura has been completed – AP 01, AP 03 on 30th of April 2019, AP 02 on 31st of January 2019 and AP 04 on 31st of December 2018.

Polonnaruwa - PO 01, PO 02 and PO 03 have been completed on 02nd of October 2018, 23rd of December 2018 and 31st of October 2018 with respectively.

North Western Province, Kurunegala – KU 01 and KU 02 have been completed on 31st of January 2019 and 15th of September 2019 with respectively. But other three packages which are (KU 03 and KU 05) and KU 04 have been terminated on 26th of February 2019 and 02nd of August 2019 with respectively. The Road IDs 27 & 28 at KU 04 has been started to complete the permanent works up to motorable condition to comply the outstanding Environmental and Social issues by MAGA Engineering PLC and KDAW-BMG JV. The KU 03 and KU 05 already retendered and currently undergoing the civil works as KU 03-R and KU 05-R. Their commencement date is 20th of February 2020.

Puttalam – PU 01 is already handed over all the roads to the Employer. PU 02 and PU 03 have been terminated on 02nd of August 2019 and 13th of November 2019 with respectively. But Emergency works have been done in above packages by PU 01 package Contractor, Ranken Railway Construction Co. LTD. Then the PU 02 and PU 03 already retendered and currently undergoing the civil works as PU 02-R1, PU 02-R2 and PU 03-R. Their commencement date is 15th of December 2020.

Hence, the updated complains, requests and suggestions up to 31st of December 2020 is mentioned by describing the rejected issues due to reasonable matters as well.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
Project 4 – Anuradhapura (NCP)					
AP 01	244	229	15	00	<ul style="list-style-type: none"> ▪ The requests/suggestions are house or land accesses more than one or two for each. But according to the project scope and BOQs cannot give multiple accesses without reasonable matter. ▪ The request/suggestion is, soil which are used for by-roads for compact and landing the Paddies. But according to the Agrarian Law strictly prohibited to landing the Paddies. ▪ The requests/suggestions are new culverts. But according to the engineering observations they are not relevant in those places and also side drains solve the water runoff or flooding issues. ▪ The request/suggestion is to do shoulder constructions while asphaltting. But in technically have to do shoulder constructions after the asphalt paving.
AP 02	212	195	17	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to construct a new culvert. But only repaired and cleaned the existing culvert without constructing a new culvert. ▪ The two requests/suggestions are to increase the culvert size. But only provide earth drains and cleaned the culverts due to lack of fund. ▪ The request/suggestion is to construct new culverts, but due to lack of provisions only provide earth drains and cleaned the culverts.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to construct damaged lake dam, but it is forwarded to Department of Irrigation. ▪ The request/suggestion is to construct new culverts, but only increased the sizes of identified some existing culverts. ▪ The request/suggestion is to construct concrete drainage structures along the road especially near the paddy fields. But due to lack of funds it cannot be done. Hence, proper earth drainage facilities will be introduced. ▪ The request/suggestion is to construct new box culvert in large size instead of existing present culverts. But PIU is not accepted it. ▪ The request/suggestion is to lay the pipe lines cross the road. But it is discussed and banned the illegal pipe line crossing. ▪ The request/suggestion is to construct a bridge over spill. But due to lack of funds, it cannot be accepted. ▪ The request/suggestion is to widen the Match - box Bridge. But due to lack of funds, it cannot be accepted. ▪ The request/suggestion is to renew Irrigation structures in parallel to the road. But it cannot implement in this project, so that forwarded into the Department of Irrigation. ▪ The request/suggestion is to renew all the culverts across the road. But only two culverts will be renewed. ▪ The request/suggestion is to renew the bathing places including steps also. But access roads will be provided to those places. ▪ The request/suggestion is to renew the irrigation structure due to leakage in it. But it cannot do in this project due to

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<p>lack of funds. So that it is forwarded to Department of Irrigation.</p> <ul style="list-style-type: none"> ▪ The request/suggestion is to concrete a road section. But it cannot implement due to lack of funds. ▪ The request/suggestion is to construct a side drain on Lake Dam side. But already earth drain will be facilitated.
AP 03	346	332	14	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to construct a new culvert. Actually decided to reconstruction. But when after constructed a proper leader way and an earth drain, technically confined there is no need a new culvert. ▪ The request/suggestion is to construct a new culvert. But the land owner disagreed to release his own land for leader way. Therefore, it was not accepted. ▪ The request/suggestion is to increase the culvert capacity. Then cleaned the leader way and earth drain. Therefore, no need to capacity improvement. ▪ The request/suggestion is to construct a new culvert. But it is no need a new culvert because earth drain is suitable for proper water runoff. ▪ The request/suggestion is to construct a new culvert because water flows over the road surface and stagnating. So raised the road level and formed the earth drains. ▪ The request/suggestion is to construct a new bridge. But in this project there is no bridge constructions. So that it was rejected by PIU. ▪ The request/suggestion is to construct a Hume pipe. But only can get action after handed over to the PRDA.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to construct a new culvert. But the requested people mentioned location is not given permission for the lead away by the land owner. So it is rejected. ▪ The request/suggestion is to construct a new culvert. But according to the technical aspects there is no need a culvert for that location. ▪ The requests/suggestions are house or land accesses more than one or two for each. But according to the project scope and BOQs cannot give multiple accesses without reasonable matter.
AP 04	432	367	65	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to construct a new culvert. But villagers said that they do not a culvert for that location. ▪ The request/suggestion is to carpet the Tank bund also. But it has given to the relevant party to get the permission. ▪ The request/suggestion is to increase the culvert capacity. But the land owner doesn't like to give his land for leader way. ▪ The request/suggestion is to construct an additional opening in the culvert because water stagnating due to insufficient opening in the existing culvert. But the downstream people don't like it. ▪ The request/suggestion is to increase the capacity of the existing culvert. So the lead away cleaned and formed the earth drain. Hence no need capacity improvement.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to remove the Koon tree. But it is not effect for the visibility of the road. So no need to remove it. ▪ The request/suggestion is to construct a new culvert. So the lead away cleaned and formed the earth drain. Therefore no need a new culvert. ▪ The request/suggestion is to repair the course way. But technically decided that it is no need. ▪ The request/suggestion is to improve the capacity of the culvert. But it is reconstructed and made a proper leader away. So that no need to improve the capacity. ▪ The request/suggestion is to improve the capacity of the culvert. But it is reconstructed and made a proper leader away. So that no need to improve the capacity. ▪ The request/suggestion is to increase the capacity of the existing culvert. So the lead away cleaned and formed the earth drain. Hence no need capacity improvement. ▪ The request/suggestion is to construct a new Box culvert. But cleaned the leader away and formed the earth drain. Then no need a Box culvert. ▪ The request/suggestion is to construct a new culvert at the end of the road outlet. But technically it is not accepted. ▪ The request/suggestion is to increase the capacity of the existing culvert. So the lead away cleaned and formed the earth drain. Hence no need capacity improvement. ▪ The request/suggestion is to construct a new culvert because water flows over the road surface and stagnated.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<p>But the lead away cleaned and formed the earth drain. Hence no need capacity improvement.</p> <ul style="list-style-type: none"> ▪ The request/suggestion is to increase the capacity of the existing bridge. So after the joint inspection it is accepted to establish a new Box culvert. ▪ The requests/suggestions are house or land accesses more than one or two for each. But according to the project scope and BOQs cannot give multiple accesses without reasonable matter.
Project 4 – Polonnaruwa (NCP)					
PO 01	160	150	10	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to construct new bridges on course way locations. But BOQ quantities are limited and therefore it is not accepted. Also Bridge construction is out of the project scope. ▪ The request/suggestion is to construct an earth drain system in the area which is not belong to the project. (Section where the road has been already constructed under a separate project). Hence it cannot accept because BOQ quantities are limited. ▪ The request/suggestion is to reconstruct a culvert with a higher discharge capacity, in order to eliminate the following storm water across the road during rainy periods. So as per the observation, existing one was a course way bridge, and there were no provisions and also a necessity to replace it with a fly – over bridge. ▪ The request/suggestion is to increase the discharge capacity of the existing culvert, in order to prevent water over

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<p>flowing during rainy season. But it was identified that the existing culvert is having enough discharge capacity, hence no need to reconstruct it, but having necessary repairs to the culvert.</p> <ul style="list-style-type: none"> ▪ The request/suggestion is to reconstruct a new culvert or a new bridge at the locations where there is a course way is located. But the BOQ quantities are limited and so it is not possible to construct a bridge. ▪ The request/suggestion is to remove the existing culvert and divert the water flow into the next culvert. But when considering the water flow, it's unable to remove the existing culvert and the distance to next culvert is 200m. So it is hard to implement it. ▪ The request/suggestion is to construct a culvert on an access road to control the risk of a local flood. But no need a culvert to accommodate the water flow, instead a properly maintained earth drain system would suffice. ▪ The request/suggestion is to construct a new culvert to control the massive water flow from the road. But no need a culvert to accommodate the water flow, instead a property-maintained earth drain system would suffice. ▪ The request/suggestion is to Increase the road width up to 4m. In this project there are no widening of roads. Only rehabilitate the existing width up to 3m. So that according to the BOQ quantities it cannot be accepted. ▪ The request/suggestion is to Increase the road width up to 5m and shoulder width 1m either side. In this project there

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<p>are no widening of roads. Only rehabilitate the existing width up to 3m. So that according to the BOQ quantities it cannot be accepted.</p> <ul style="list-style-type: none"> ▪ The request/suggestion is to include a rounder bout at the 3-way junction. But the available space is not adequate for a rounder bout. But it was decided to do road surface marking as a rounder bout.
PO 02	187	166	21	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to construct a new culvert. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to implement proper drainage system at junction. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to construct a new culvert. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to construct a Box culvert. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to construct the bend location properly visually ahead. But cannot be applied in this project. ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to widen the bridge otherwise it is not enough for movement of vehicles. ▪ The request/suggestion is to construct a new culvert otherwise water flows across the road in this area. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to provide removing interlock for by roads. It is handed over to Pradeshiya Sabha. ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to provide removing interlock for by roads. It is handed over to Pradeshiya Sabha. ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to construct a new culvert. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to expand the culvert width and height to prevent any flood. But the BOQ quantities are not enough to do it.
PO 03	119	107	12	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to reconstruct the existing culvert. But because of the lack of the provision, it cannot be accepted. ▪ The request/suggestion is to construct the drains on the both sides of the road. But the BOQ quantities are not enough to do it.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to widen the road width minimum up to 4m. But in this project only existing width is rehabilitating. ▪ The request/suggestion is to construct a Box culvert at the starting point. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to changed design from culvert to bridge. But the BOQ quantities are not enough to do it. ▪ The request/location is to shift the culvert in to the leader way location. But the BOQ quantities are not enough to do it. And also, technically it is not needed. ▪ The request/suggestion is to construct the drains on the both sides of the road. But the BOQ quantities are not enough to do it. ▪ The request/suggestion is to construct a new culvert. But the BOQ quantities are not enough to do it.
Project 5 – Kurunegala (NWP)					
KU 01	433	320	113	00	<ul style="list-style-type: none"> ▪ The requests/suggestions are to asphalt the entrance of shops/Medical Centers/any other government or private offices. But according to the project there is no allocation for those. They are out of the project scope. ▪ The requests/suggestions are house or land accesses more than one or two for each. But according to the project scope and BOQs cannot give multiple accesses without reasonable matter. ▪ The requests/suggestions are to change the culvert positions to avoid drainage issues. But existing culvert positions cannot change, therefore solutions implemented for the drainage issues relevantly.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The requests/suggestions are to provide accesses with the Hume pipes. But those areas have earth drains, therefore it was not needed Hume pipes. ▪ The complaint is about crack formation due to road works and asking compensation. But according to Pre-crack surveys they were happened before the construction have been started. ▪ The request is about a Hume pipe access. But according to the villager's opinions it is contradicted. Therefore, it is rejected reasonably.
KU 02	730	575	155	00	<ul style="list-style-type: none"> ▪ The request/suggestion is to Construction of side drain along the road. But it is out of the scope. ▪ The request/suggestion is to construct Pipe crossings for water lines. But no allocation for those. ▪ The request/suggestion is to improve the Road which is connected to Katupotha. But no allocation for the extra works. ▪ The request/suggestion is to widen the road width. But in this project no widen is allowed. ▪ The request/suggestion is to take existing paved interlock blocks for the temple. But those are belonging to Pradeshiya Sabha and it was given to them. ▪ The requests/suggestions are to asphalt the entrance of shops/Medical Centers/any other government or private offices. But according to the project there is no allocation for those. They are out of the project scope. ▪ The requests/suggestions are to increase the width of the accesses. But according to the project scope no allowing widening. Therefore such requests cannot complied.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The requests/suggestions are to provide new accesses. But their existing accesses are not damaged by road rehabilitation. Therefore, they were rejected reasonably. ▪ The requests/suggestions are to asphalt their access roads. But according to the project scope there is no allocation/BOQs for those. Completely out of the project objectives. ▪ The requests/suggestions are to provide Disposal Soil for the houses which are not in the iRoads. Therefore, no authority to give Disposal soil for them. ▪ The Complaint as the water in adjacent wells have dropped due to dragging water from the newly dragged well at the land of Mr. E.M. Laxman Sri Rajawansha. But that was not agreed because another well in the same land did not show water deference due to dragging. Though, water consumption was stopped at 1 time due to another source was found nearby. ▪ The request/suggestion is to build Line drain. But according to the Engineer's technical solutions already it was constructed a hard drain and a Kerb drain. ▪ The request/suggestions is to construct a retaining wall/Protecting wall for the near Paddy areas and other sloppy areas. But already wing wall/other required protective constructions were done according to the Engineer's advice. ▪ The complaints are about crack formations due to road works and asking compensation. But according to Pre-crack surveys they were happened before the construction have been started.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is access to Paddy field over canal with retaining wall. But it was out of the project scope. ▪ The requests/ Suggestions are for implement U-drains for the accesses. But according to the site conditions, the Engineer and the other parties concluded to provide Hume pipes. Otherwise implementing U-drains is time consuming and need more allocation. Therefore, difficult to maintain the budget of the project when providing the U-Drains.
KU 03	308	289	11	08	<ul style="list-style-type: none"> ▪ The request/suggestion is to construct the Irrigation channel, but Irrigation channels are not constructing by our project. ▪ The request/suggestion is to widen the road by taking addition land strip, nut no any land acquisition in this project. ▪ The request/suggestion is to rehabilitate the two bridges in this road, but bridges are not constructing by in this project. ▪ The request/suggestion is to widen the road width, but road can't be widened up to 4m because not enough of the available funds as well as no widen take place in this project. ▪ The request/suggestion is to construct drains along the road side 0+000 to end, but it is impossible due to limited funds.
KU 03-R	139	76	44	17	<ul style="list-style-type: none"> ▪ Some are reasonably rejected because they are out of the project scope, there no provisions to go further rehabilitations and technically no need to apply any construction activities.
KU 04	494	437	27	30	<ul style="list-style-type: none"> ▪ The request/suggestion is that Land acquisition has been required from Kasikote Temple side. But it is not required.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to provide house accesses. But in this project only provide which are removed while construction purposes. No other accesses are providing. ▪ The request/suggestion is the road lengthen up to the Meeoya Bridge. But BOQ quantities are not sufficient for it. ▪ The request/suggestion is to widen the road width. But it is not widening the roads width in this project. Only existing width is concerning. ▪ The request/suggestion is to widen the Lake bund area. But there is no sufficient funds for implement it. ▪ The request/suggestion is to need to widen within the bund area during rainy season, otherwise flooding the paddy field near Nelumpathwewa Lake. But BOQ quantities are not sufficient. ▪ The request/suggestion is to mark the demarcation of the road reservation area. But there is no authority to do it from the RDA.
KU 05	233	208	04	21	<ul style="list-style-type: none"> ▪ The request/suggestion is to elevate the Tank Bund, but cannot be widened or elevated because it is a property of Pradeshiya Sabha. ▪ The request/suggestion is to remove the clock tower located at the end point of the road. But amount of land along the road is limited. So, it needs donated land strip for the implement the request. ▪ The request/suggestion is to reconstruct the damaged culvert, but there is no any culvert at that location. ▪ The request/suggestion is to reconstruct the insufficient culvert openings, but there are no any culverts at those locations, so that willing to construct retain walls.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
KU 05-R	383	168	89	126	<ul style="list-style-type: none"> Some are reasonably rejected because they are out of the project scope, there no provisions to go further rehabilitations and technically no need to apply any construction activities.
Project 5 – Puttalam (NWP)					
PU 01	194	136	34	14	<ul style="list-style-type: none"> The request/suggestion is to build a concrete drain at flood areas. But recommended for only suitable places. Not each and every flooding areas. There is not an allocation fund for that. The request/suggestion is to remove the boundary wall at the sharp bend. The general permanent structures will not be removed. The request/suggestion is for construct a bridge instead of a coarse way. But money is only allocated for the culverts. The request/suggestion is to construct culverts for each and every flooding areas. But in this project cannot construct all the culverts according to allocated funds. The three requests/suggestions are for provide new culverts. But when after considered the locations, technically decided to construct another relevant place. The request/suggestion is to construct a new culvert, but technically decided to construct it another suitable place. The request/suggestion to construct the road surface rougher by using asphalt or concrete on the sharp bend areas. But there is no such mechanism available in technically justifiable for making the road surface rough. Alternatively, it has decided to increase the road width at each and every sharp bends which are risky.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to construct new culverts, but technically recommended to construct new culverts according to suitable locations. ▪ The request/suggestion is to construct new culverts, but technically recommended to construct new culverts according to suitable locations.
PU 02	237	212	07	18	<ul style="list-style-type: none"> ▪ The request/suggestion is to increase the number of culverts due to flood inundation area. But this is not convenient according to the technical aspects as well as the due to limited funds, it cannot be accepted. ▪ The request/suggestion is to widen the culvert. But due to lack of provisions it cannot be accepted. ▪ The request/suggestion is to Asphalt another 25m at the Junction which is connectivity roads. But due to lack of BOQ quantities it cannot proceed. The request/suggestion is to reconstruct the anicut due to insufficient width. But it is responsible of Department of Agriculture. ▪ The request/suggestion is to provide a hump near the Mohottimulla School. ▪ The request/suggestion is to increase the road width. But there is no road widening in this project. ▪ The request/suggestion is to provide vehicle weight confining system. But it cannot provide due to lack of funds.
PU 03	155	124	00	31	<ul style="list-style-type: none"> ▪ The request/suggestion is to reconstruct the anicut due to insufficient width. But it is responsible of Department of Agriculture. ▪ The request/suggestion is to provide a hump near the Mohottimulla School.

Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matter	No. of cases Solution In-progress	Remarks
					<ul style="list-style-type: none"> ▪ The request/suggestion is to increase the road width. But there is no road widening in this project. ▪ The request/suggestion is to provide vehicle weight confining system. But it cannot provide due to lack of funds.

Annexure IV.

Licences and Approvals

Table 01: Licences - KU 01 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	07.12.2018	06.06.2019	31.12.2018	31.12.2019	01.06.2018	31.05.2019
Crusher	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	19.07.2018	18.07.2019	31.12.2018	31.12.2019	N/A	
Asphalt Plants	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	02.08.2018	01.08.2019	31.12.2018	31.12.2019		
Batching Plants	N/A						

Table 2: Licences - KU 02 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	K.D.A.W., Wadakada	01.01.2019	31.12.2019	01.01.2019	31.12.2019	04.12.2018	03.12.2019
Crusher	K.D.A.W., Wadakada	30.06.2019	30.12.2019	01.01.2018	31.12.2019 (Renewal in progress)	N/A	
Borrow Pits	Dampitiya Estate	Extension is in progress		01.01.2019	31.12.2019	Extension is in progress	
Asphalt plants	K.D.A.W , Neboda	09.07.2019	31.12.2019	01.07.2019	31.12.2019	N/A	
Concrete Batching Plants	K.D.A.W., Pothuhera	28.03.2019	28.12.2019	01.01.2019	31.12.2019		
Precast Yard	Batching plant & concrete block manufacturing industry	02.11.2018	01.11.2019	Extension is in progress			
Sand	Use crusher fines for the construction						

Table 3: Licences - KU 03 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Seltec Group PVT Ltd, Kaduruwella, Wadakada	28.05.2018	27.05.2019	06.02.2018	31.12.2018	01.05.2018	30.04.2019
Crusher	Seltec Group PVT Ltd, Kaduruwella, Wadakada	28.05.2018	27.05.2019	22.01.2018	31.12.2018	N/A	
	Basnayake metal Crusher, Weerasinghe watta, Banneggama.	11.04.2018	10.04.2019	10.03.2018	31.12.2018		
Asphalt Plants	Business promoters & partners Engineering (Pvt) Ltd, Dodangaslanda.	23.09.2017	22.09.2018	01.01.2018	31.12.2018		
Gravel	P.D.S.A. Sandaruwan, Eth Dembatagahamula hena, Dodamgas landa.	19.07.2018	18.01.2019	N/A		19.07.2018	18.10.2018
Sand	Commercial Suppliers						

Table 4: Licences - KU 03-R – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	To:
Quarry	WKK Crusher Plant - Wadakada	06.03.2020	05.03.2021	01.01.2020	31.12.2020	10.06.2020	09.06.2021
Crusher	WKK Crusher Plant - Wadakada	06.03.2020	05.03.2021	01.01.2020	31.12.2020	N/A	
Burrow Pits	L.A. Shelton, Rambukkana.	05.05.2020	04.05.2021	29.01.2020	29.01.2021	22.10.2020	21.12.2020
Asphalt Plant	Access Engineering PLC, Kotadeniyawa	13.10.2019	12.10.2020	01.01.2020	31.12.2020	N/A	
Concrete Batching Plant	Sathuta Builders (Pvt) Ltd., Malkaduwwa.	06.03.2020	05.03.2021	01.01.2020	31.12.2020	N/A	
Sand	-	-	-	-	-	-	-

Table 5: Licences - KU 04 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Pilassa, Mawathagama.	13.12.2017	12.12.2018	13.12.2017	12.12.2018	03.03.2018	31.03.2019
	Pabasara Mettle Crusher and Quarry, Ihala Giribawa.	02.11.2017	01.11.2018	10.03.2017	31.12.2018	31.03.2017	31.12.2018
Crusher	Pilassa, Mawathagama.	15.12.2017	14.12.2018	31.12.2018	30.12.2019	N/A	
	Pabasara Mettle Crusher, Ihala Giribawa.	02.11.2017	01.11.2018	10.03.2017	31.12.2018		
Burrow Pits	R.M.Cyril Rathnayake. Moragallagama.	02.03.2018	01.09.2018	02.03.2018	01.09.2018	02.03.2018	01.09.2018
Asphalt Plant	Pilassa.	16.09.2018	15.09.2019	31.12.2018	30.12.2019	N/A	

Table 6: Licences - KU 05 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Business Promoters & Partners (Pvt) Ltd. Nuwarayaya Watta, Lihinivehara, Dodangaslanda.	23.12.2017	22.12.2018	01.01.2018	31.12.2018	23.02.2018 (Renewal in progress)	01.08.2018 (Renewal in progress)
	The G.W Rock Wadakada, Hiripathwella, Wadakada.	12.07.2018	11.07.2019	(Renewal in progress)		07.03.2018	06.03.2019
Crusher	Business Promoters & Partners (Pvt) Ltd. Nuwarayaya Watta, Lihinivehara, Dodangaslanda.	23.12.2017	22.12.2018	01.01.2018	31.12.2018	N/A	
	Jaya Metal Crusher, Aluthwewahena Watta, Radaliyagoda, Katupotha.	15.12.2017	14.12.2018	12.02.2018	31.12.2018		
Borrow Pit	H.M Dharmasena, Waduressa, Aulegama.	28.02.2018	27.08.2018 (Renewal in progress)	(Renewal in progress)		13.07.2018	12.10.2018
Asphalt Plants	Business Promoters & Partners (Pvt) Ltd. Nuwarayaya Watta, Lihinivehara, Dodangaslanda.	23.12.2017	22.12.2018	01.01.2018	31.12.2018	N/A	

Table 7: Licences - KU 05-R – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To	From	From:
Quarry	Finite Lanka Quarry, Maveehena, Katuwakele, Ambepussa	01.07.2020	30.06.2021	01.01.2020	31.12.2020	24.06.2020	23.06.2021
Crusher	Finite Lanka Crusher, Maveehena, Katuwakele, Ambepussa	20.01.2020	19.01.2021	01.01.2020	31.12.2020	N/A	
Burrow Pits	S.W.M.T.S Bandara	12.01.2020	11.01.2021	01.01.2020	31.12.2020	31.01.2020	30.01.2021
Asphalt Plant	E.M.A.K. Ekanayake	20.05.2020	19.11.2020 Renewal Pending	01.01.2020	31.12.2020	17.06.2020	16.12.2020
	Access Engineering Asphalt plant Kotadeniyawa	13.10.2019	12.10.2020 Renewal Pending	01.01.2020	31.12.2020	N/A	
Concrete Batching Plant	Mobile truck mixer	N/A		N/A		N/A	
Sand	W.M.L.W.K. Wijesinghe, Mudannapola Estate Land, Wellegala.	17.05.2020	16.11.2020 Renewal Pending	04.08.2020	03.11.2020 Renewal Pending	04.08.2020	03.11.2020 Renewal Pending

Table 8: Licences - PU 01 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Dhammika Metal Crusher	22.02.2018	21.02.2019	04.07.2018	31.12.2018	02.10.2018	01.04.2019
Crusher	Dhammika Metal Crusher	22.02.2018	21.02.2019	04.07.2018	31.12.2018	N/A	
	Deshani Metal Crusher	08.12.2017	07.12.2018	01.01.2018	31.12.2018		
Borrow Pit	R.M. Ajith Ruwan Kumara	N/A				01.04.2019	31.05.2019
Asphalt Plants	Access Engineering PLC.	13.10.2018	12.10.2019	20.02.2018	31.12.2018	N/A	

Table 9: Licences - PU 02 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	V.V.K. Quarry, Pilassa, Mawathagama.	31.12.2018	30.12.2019	01.01.2019	31.12.2019	25.05.2019	21.10.2019
Crusher	V.V.K. Crusher Plant, Pilassa, Mawathagama.	(Renewal In process)		01.01.2019	31.12.2019	N/A	
	Nawalanka Metal Crusher, Rasnayakapura.	18.10.2018	19.10.2019	01.01.2019	31.12.2019		
Borrow Pits	Palugahahena Borrow Pit, Sembukuliya, Mahakumbukkadawala.	09.01.2019	08.07.2019	N/A		10.01.2019	09.02.2019
Asphalt Plants	V.V.K. Asphalt Plant, Pilassa, Mawathagama.	16.09.2018	15.09.2019	01.01.2018	31.12.2018	N/A	
Batching Plants	N/A						
Sand	Sand Washing Plant, Pallama.	N/A		26.03.2018	25.03.2019	N/A	

Table 10: Licences - PU 03 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	V.V Karunaratne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	31.12.2018	30.12.2019	01.01.2019	31.12.2019	28.05.2019	21.10.2019
Crusher	V.V Karunaratne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	(Renewal In process)		01.01.2019	31.12.2019	N/A	
Burrow Pits	B 84/2 street, Bandara mawatha, Nattandiya.	(Renewal In process)		(Renewal In process)		(Renewal In process)	
Asphalt Plant	V.V Karunaratne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	16.09.2018	15.09.2019	01.01.2019	31.12.2019	N/A	

Table 11: Licences - AP 01 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Sumith – Mihintale.	22.07.2018	21.07.2019	22.07.2018	21.07.2019	22.07.2018	21.07.2019
Crusher	Sirasa Nochchiyagama.	10.08.2018	10.08.2019	26.08.2018	31.08.2019	26.08.2018	27.08.2019
Asphalt Plants	Kapugollawa.	02.07.2018	01.07.2019	04.01.2018	31.12.2018	N/A	
	Madawachchiya.	21.11.2018	21.11.2019	22.11.2018	22.11.2019		

Table 12: Licences - AP 02 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	J-Lanka Metal Crusher, Wadakada.	16.07.2018	16.10.2019	04.01.2018	31.12.2018	04.10.2018	03.01.2019
Crusher	J-Lanka Metal Crusher, Wadakada.	16.07.2018	16.10.2019	04.01.2018	31.12.2018	04.10.2018	03.01.2019
Borrow Pits	D.M.D.J.K. Dasanayaka.	01.12.2018	01.02. 2019	01.12.2018	31.12.2018	01.12.2018	01.02.2018
Asphalt Plants	Horowpothana.	01.06.2018	03.06.2019	04.01.2018	31.12.2018	N/A	
	Madawachchiya.	09.08.2018	08.08.2019	04.01.2018	31.12.2018		
	Wadakada.	30.05.2018	29.05.2019	05.01.2018	31.12.2018		

Table 13: Licences - AP 03 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Maga Engineering(Pvt)Ltd, Dunuwattegama Forest, Kapugollegama	13.10.2018	12.10.2019	20.02.2018	31.12.2018	02.02.2018	31.03.2018
Crusher	Wajira Metal Crusher.	27.08.2018	26.08.2019	10.01.2018	31.12.2018	N/A	
Borrow Pit	Upuldeniya Namal (Private borrow pit).	28.09.2017	27.03.2019	03.10.2017	02.10.2018	28.09.2017	27.03.2019
	SDW Construction (Private)	20.09.2017	27.03.2019	03.10.2017	02.10.2018	28.09.2017	27.03.2019
Asphalt Plants	Maga Engineering (Pvt), Ltd Dunuwattegama Forest, Kapugollegama.	13.10.2018	12.10.2019	20.02.2018	31.12.2018	N/A	

Table 14: Licences - AP 04 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	Kapugollawa.	07.06.2017	12.09.2018	12.06.2018	13.06.2019	(Applied for Renewal)	
Crusher	Maga – Kapugollawa.	02.10.2018	02.12.2018	01.01.2018	31.12.2018	N/A	
Borrow pit	Seneviratne borrow pit (Private supplier).	(Applied for Renewal)	(Applied for Renewal)	01.01.2018	31.12.2018	02.06.2018	01.09.2018
Batching Plants	N/A						

Table 15: Licences - PO 01 – 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	KMCC - Siripura	21.09.2017	20.09.2018	03.01.2018	31.12.2018	09.08.2018	09.12.2018
Crusher	KMCC - Siripura	21.09.2017	20.09.2018	03.01.2018	31.12.2018	N/A	
	Darshana Metal Crusher-Attanakadawala.	07.04.2018	06.04.2019	02.01.2018	31.12.2018		
Burrow pits	Maga Engineering (Pvt) Ltd. - Konduruwawa – Lot No. 6189	02.10.2017	01.10.2018	N/A			
	Maga Engineering (Pvt) Ltd. - Konduruwawa – Lot No. 6186	02.10.2017	01.10.2018				
	Maga Engineering (Pvt) Ltd. - Konduruwawa – Lot No. 6219	02.10.2017	01.10.2018				
Asphalt plants	KMCC-Pelatiyawa.	21.09.2017	20.09.2018	10.01.2018	31.12.2018	09.08.2018	09.12.2018
Sand	GSMB Technical Services (Pvt) Ltd.	√	√	√	√	√	√
Water	Girithale Tank.	√	√	√	√	√	√
Batching Plants	N/A						

Table 16: Licences - PO 02 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Quarry	KMCC	25.06.2017	24.06.2018	01.01.2018	31.12.2018	25.11.2018	24.06.2018
	Araliya	08.08.2018	07.09.2018	01.01.2018	31.12.2018	08.02.2018	07.05.2018
Crusher	KMCC	25.06.2017	24.06.2018	01.01.2018	31.12.2018	25.11.2018	24.06.2018
	Wadakada - MAGA	09.06.2017	08.06.2018	01.01.2018	31.12.2018	11.02.2018	10.06.2018
Borrow pit (sub)	ABLE Construction	27.03.2018	26.09.2018	27.03.2018	31.12.2018	13.01.2018	06.04.2018
	DMN Construction	25.02.2018	24.06.2018	25.02.2018	31.12.2018	21.03.2018	20.06.2018
	Shine Construction	20.04.2018	19.09.2018	20.04.2018	31.12.2018	15.05.2018	14.08.2018
Asphalt plants	KMCC	25.06.2017	24.06.2018	01.01.2018	31.12.2018	N/A	
	Wadakada - MAGA	11.06.2017	2018.06.10	01.01.2018	31.12.2018		
Sand	Direct from GSMB	N/A					

Table 17: Licences - PO 03 - 2020

Type	Name(s)	EPL/ER (EC) from CEA		Certificate of Conformity/Trade License (TL) or Consent Paper		IML from GSMB	
		From:	To:	From:	To:	From:	From:
Asphalt	KMCC plant Palatiyawa	21.09.2018	20.09.2019	10.01.2018	31.12.2018	09.08.2018	08.08.2019
Crusher	KMCC Metal Crusher	27.11.2017	26.11.2018	09.01.2018	31.12.2018	30.11.2017	29.11.2018
Rubble	LBN Metal Quarry	10.03.2018	10.03.2019	18.01.2018	31.12.2018	07.09.2018	06.09.2019
Ready-mix concrete	KMCC plant Palatiyawa	18.06.2018	18.06.2019	31.12.2017	30.12.2018	25.07.2018	24.07.2019
Burrow Pit	KMCC Mahasenpura Burrow Pit	23.08.2017	22.08.2018	N/A		07.09.2017	06.08.2018
	Magulthamana Burrow Pit	04.10.2017	03.10.2018			26.11.2017	07.07.2018

Annexure V.

Environmental Issues as Contract Package wise

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
North Western Province (Kurunegala)						
KU 01	Disposal material were badly affected for the safety of the road users.	Both side of the road cleared	ID 98 (Ch.02+200)	No	No	Yes
	Non rectified Stockpile yard	The land was reinstated to owner's satisfaction	ID 98 (Ch.06+000 RHS)	No	No	Yes
KU 02	Water logging during rainy season	Hume pipe was constructed proper access	ID 74 (Ch.02+372 LHS)	No	No	Yes
	Debris which may be harmful to residents	Stock yard was rectified	ID 74 (Ch.01+900 LHS)	No	No	Yes
	Washing away the private land.	U drain system was provided with proper access	ID 01 (Ch.03+200 RHS)	No	No	Yes
	Washing away the private land.	Runoff water was diverted through cross drain and directed to U drain.	ID 01 (Ch.12+663 RHS)	No	No	Yes
	Embankment eroded to a private land	A toe wall was constructed to avoid eroding	ID 41 (Ch.01+750 RHS)	No	No	Yes
	Erosion of the road edge	A retaining wall was constructed	ID 41 (Ch.03+840-3+845 LHS)	No	No	Yes
	Inundating road due to blocking culvert.	Existing lead away was shifted and constructed it proper way	ID 02 (Ch.01+810 RHS)	No	No	Yes
	Runoff water contamination to well water in rainy days	Common well was conserved with proper drain system	ID 01 (Ch.09+610 RHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Disrupted drainage and access	A proper access was provided	ID 01 (Ch.09+620 RHS)	No	No	Yes
	Inundating pavement of the bus halt	Pavement was constructed	ID 46R (Ch.00+000)	No	No	Yes
	non reinstatement of stock pile yard	Stock pile yard rehabilitated.	ID 56 (Ch. 04+500 LHS)	No	No	Yes
	non reinstatement of stock pile yard	Stock pile yard was rehabilitated.	ID 05 (Ch. 02+930 LHS)	No	No	Yes
	An Inundating low land area due to heavy runoff water that comes along road.	Surface Runoff water was collected in to a small catch pit. Then this water was diverted away from the house entrance.	ID 02 (Ch. 01+930 RHS)	No	No	Yes
	Damaging house access due to construction activities	House access was rehabilitated to facilitate parking.	ID 02 (Ch. 00+105 LHS)	No	No	Yes
	Damaged house access	House access was rehabilitated	ID 41 (Ch. 03+720 RHS)	No	No	Yes
	Water logging	New cross drain was constructed	ID 67 (Ch. 03+415)	No	No	Yes
	Inundating area	New Built-up drain was provided	ID 67 (Ch. 03+480 to 03+810 both side)	No	No	Yes
	Flooding	Opening of the culvert was enlarged	ID 75 (Ch. 02+673)	No	No	Yes
	Safety issue due to causeway destruction	Cause way was reconstructed	ID 75 Ch. 01+710)	No	No	Yes
	Washed out access	Temple access was asphalted	ID 02 (Ch. 02+900 RHS)	No	No	Yes
	Eroded area	Kerb drain was provided	ID 41 (Ch. 02+735 to Ch. 02+765 LHS)	No	No	Yes
	Washing out the base of the BO tree	Kerb wall was provided around foot of the Bo tree	ID 41 (Ch. 00+000)	No	No	Yes
	Safety issue due to narrow bend	Curve widening done	ID 41 (Ch. 01+430 RHS)	No	No	Yes
	Debris was both side of the road	Both side of the road was cleared	ID 75 (Ch. 03+388)	No	No	Yes
	Safety issue	By road access was reconstructed.	ID 41 (Ch. 00+820 LHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Washing out road surface	U-Drain was provided and rehabilitated the road.	ID 41 (Ch. 01+516 to 01+540 LHS)	No	No	Yes
	Embankment eroding	Kerb wall was raised	ID 41 (Ch. 03+795 RHS)	No	No	Yes
	Wall of the Buddha statue eroded from nearby earth drain.	Raised wall of the u-drain	ID 56 (Ch. 09+625 LHS)	No	No	Yes
	flooding of private land	U-drain was constructed	ID 01 (Ch.12+300 RHS)	No	No	Yes
	Wall of the Buddha statue eroding due to nearby drain.	Rip Rap protection was done	ID 01 (Ch. 11+965 to Ch. 12+098 RHS)	No	No	Yes
	Erosion due to heavy rain	Retaining wall was constructed	ID 01 (Ch. 09+800 to Ch. 09+850 LHS)	No	No	Yes
	Debris was both side of the road	Both side of the road was cleared	ID 75 (Ch. 03+388)	No	No	Yes
	Unsafe telephone post in the road side,	Telephone post was shifted	ID 58 (Ch.05+520 LHS)	No	No	Yes
	Eroding road embankment	Retaining wall was constructed	ID 67 (Ch. 02+598 RHS)	No	No	Yes
	Wall of the Buddha statue eroding due to nearby drain.	Raised wall of the u-drain	ID 56 (Ch. 09+625 LHS)	No	No	Yes
KU 03	Embankment Erosion	Kerb wall construction	ID 37 (Ch. 01+260)	No	No	Yes
	Poor safety	Safety was improved in this location	ID 20 (Ch. 00+619 LHS)	No	No	Yes
	Dust emission	DGABC construction was done	ID 20 (Ch. 04+830 to Ch. 04+860)	No	No	Yes
	Dust emission	Tack coat was applied immediatly	ID 20 (Ch. 04+290 to Ch. 04+425)	No	No	Yes
	Unsafe Broken bridge	Bridge was reconstructed	ID 22 (Ch. 02+873)	No	No	Yes
	Poor safety due to eroded embankment	Gabion wall was constructed to prevent erosion	ID 22 (Ch. 10+275 LHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Poor road maintenance and poor safety	Road maintenance was done improving safety	ID 22 (Ch. 01+480 to 01+560)	No	No	Yes
	Poor safety	Safety was improved in this location	ID 22	No	No	Yes
	Poor safety	Safety was improved in this location	ID 22 (Ch 01+590)	No	No	Yes
	Poor safety	Safety was improved in this location	ID 22 (Ch. 03+290 to Ch.03+320)	No	No	Yes
	Poor safety	Safety was improved in this location	ID 23 (Ch. 07+914 RHS)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 23 (Ch. 00+000)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 84 (Ch. 02+620 to Ch. 02+524)	No	No	Yes
	Dust emission	Root maintenance was done	ID 87 (Ch. 00+825 to Ch. 01+800)	No	No	Yes
KU 03-R	Dust Emission because of the Shoulder Laying	Watered during the construction	ID 71 (Ch. 02+500 LHS to 03+450 LHS)	No	No	Yes
	Construction debris were scattered everywhere Nuisance to public and environment due to dust emission	Disposed into an authorized place	ID 20	No	No	Yes
		Watered to the road using a water bowser	ID 87	No	No	Yes
	Improper disposal of garbage	Provided garbage bins for waste segregation	Site office and Labour camps	No	No	Yes
	Safety hazards from working activities	Providing of adequate PPE for relevant personnel	ID 87 & 20	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Traffic safety issues	Deployed a Safety officer and provided relevant Traffic signs.	ID 17	No	No	Yes
	Impacts to trees in stockpile yards from stock materials	Removing of stock materials from tree trunks to prevent these impacts.	ID 23 (Ch 04+381/RHS)	No	No	Yes
	Tree to be removed	Removal of necessary branches instead of the whole tree	ID 23 (Ch. Ch.02+070/RHS)	No	No	Yes
	Temporary loss of accesses	Preparation of the permanent access or providing temporary access	ID 20	No	No	Yes
KU 04	Drain has blocked due to debris	Cleaned the drain and disposed to authorized places	ID 11 (Ch.02+630/RHS)	No	No	Yes
	Soil piles scattered in the unauthorized places	Soil piles to be Removed to authorized places	ID 11 (Ch.02+900/LHS)	No	Being complied	No
	Embankment washed away	Line drain constructed where the arising out wall of drain for covering bankside	ID 11 (Ch.02+930)	No	No	Yes
	Debris and unnecessary Asphalt parts in the road sides	Cleaned and disposed into authorized places	ID 11 (Ch.02+933 Both side)	No	No	Yes
	Debris and unnecessary Asphalt parts	Cleaned and disposed into authorized places	ID 11 (Ch.02+933)	No	No	Yes
	Removed Hume pipes scattered in the Paddy areas	Disposed into relevant places	ID 92 (Ch.02+790/RHS)	No	No	Yes
	Debris scattered in many places	Cleaned and disposed into authorized places	ID 92 (Ch.2+816/RHS), (Ch.07+860/Both side), (Ch.07+880/RHS), (Ch.01+833 to Ch.1+870/Both side) and (Ch.1+833 to Ch.1+870/Both side)	No	No	Yes
	Flooded area	Road section elevated and road	ID 16 (Ch.00+225)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		rising required by Sub Base material				
	Water logged area	Road raised by using Sub Base material	ID 16 (Ch.00+281)	No	No	Yes
	Inundated area	Deepened the earth drain in both sides	ID 16 (Ch.01+200)	No	No	Yes
	Inundated area	Road raised up to suitable height	ID 16 (Ch.01+940 to Ch.02+200)	No	No	Yes
	Flooded area	New causeway constructed	ID 16 (Ch.05+700 to 07+481)	No	No	Yes
	In the project area landslide occurred. specially along the lake bund area	Mechanical soil conservation methods are enough to minimize the soil erosion such as drainages, culverts and lead ways	ID 16 9 (Ch.00+000 to 07+500)	No	No	Yes
	To prevent soil compaction in the adjoining productive lands	Protected the adjoining productive lands	ID 16 (Ch.00+820/RHS, Ch.01+360/LHS) and (Ch.01+580/RHS)	No	No	Yes
	Gravel - stock pile yards	Every Disposal yards and Stock pile yards compliance with the Government regulation and Environmental establishment	ID 16	No	No	Yes
	Site office	Use flood less, dried prone, impenetrable surface, covered lands and incombustible area to store the fuel and lubricants.	ID 16 (Ch.03+474)	No	No	Yes
	Tank spill water overflow through the road	Culvert and drain cleared	ID 90 (Ch.04+000)	No	No	Yes
	Tank spill water overflow through the road	Causeway reconstructed	ID 90 (Ch.04+350 to Ch.04+450)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	water stagnated	Culvert to be cleared	ID 90 (Ch.05+300)	No	No	Yes
	Flooded area	Culvert constructed and drains cleared	ID 90 (Ch.05+400 to Ch.05+450)	No	No	Yes
	Flooded area	Road raised	ID 90 (Ch.05+750 to Ch.05+900)	No	No	Yes
	Water flew over the road	Pavement improved	ID 90 (Ch.06+600 to Ch.06+900)	No	No	Yes
	Flooded area	Proposed concrete pavement	ID 90 (Ch.09+500 to Ch.09+520)	No	No	Yes
	Water flew over the road	Proposed new culvert	ID 90 (Ch.11+300)	No	No	Yes
	Embankment slope along the road	Shrubs planted along the contour line because embankment slope width is very narrow along the road	ID 96 Applicable along the road (Ch. 01+250 to Ch.01+300)	No	No	Yes
	In the project area water logged, flooded areas and road shoulder damaged	Mechanical soil conservation methods used for soil erosion such as drainages, culverts and lead ways	ID 96 (Ch.00+000 to Ch.04+030)	No	No	Yes
	Tank water leaked to the road	Apply geo textile and constructed sub surface drain	ID 96 (Ch.03+109 to Ch.03+240)	No	No	Yes
	Throughout the project road with special attention to schools, hospitals and religious places located along the roads.	Vehicles covered by covering material to prevent dust emission and spilling. Dust suppression measures such as water sprinkling applied in all dust prone locations	ID 96 (Ch.01+265 - Preschool), (Ch.01+300 - Temple) and (Ch.01+470 - School)	No	No	Yes
	Flooding	Culvert rehabilitation	ID 92 (Ch.00+450)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Embankment Erosion	Hard shoulders construction	ID 92 (Ch.04+650)	No	No	Yes
	Unsafe bend	Safety improvement	ID 92 (Ch.09+300)	No	No	Yes
	Inundation	Culvert rehabilitation	ID 07 (Ch.00+700)	No	No	Yes
	Inundation	Culvert rehabilitation	ID 07 (Ch.01+100)	No	No	Yes
	Inundation	Culvert rehabilitation	ID 07 (Ch. 01+710)	No	No	Yes
	Flooding	Culvert construction	ID 92 (Ch.06+600)	No	No	Yes
KU 05	Poor maintenance	Root maintenance was done	ID 12 (Ch. 05+700)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 12 (Ch. 05+400)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 13 (Ch. 09+300 to Ch. 09+410)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 29 (Ch. 06+300)	No	No	Yes
	Dust emission	Root maintenance was done	ID 79 (Ch. 03+900)	No	No	Yes
	Poor maintenance	Root maintenance was done	ID 89 (Ch. 00+470 to Ch. 00+600)	No	No	Yes
	Dust emission	Asphalted	ID 99 (Ch. 01+590)	No	No	Yes
KU 05-R	Dust generation	Sprinkled water as much as possible	ID 29	No	No	Yes
	Issues had to be occurred due to disposable asphalt portions	Remaining asphalts disposed to an authorized place	IDs 29 and 95	No	No	Yes
	Discharge nutrient enriched agricultural land drainage in	Prevent agricultural land drainage from reaching surface water.	IDs 26 and 61	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	surface water.	(House access, drain paths provided)				
	Dust Generation	Sprinkled water	IDs 29 and 26	No	No	Yes
	Solid waste generated by clearing and grubbing / construction	Disposed to authorized places	IDs 26,29,61,79,83 and 95	No	No	Yes
	Issues had to be occurred due to disposable asphalt portions	Remaining asphalts disposed to an authorized place	IDs 29 and 95	No	No	Yes
	Noise generated by heavy equipment	New heavy equipment was replaced.	ID 26	No	No	Yes
	3 trees had to be removed for existing culverts reconstruction.	Decided to shifting one culvert location to save two trees. ("Bulu", "Kohomba/Neem")	ID 26	No	No	Yes
	Waste generated by staff, workers	Waste separates as the food waste, polythene and papers before disposal.	Site offices	No	No	Yes
	Health & safety during asphaltting	Used PPE's to mitigate injuries / accidents, Followed the safety instructions.	IDs 29 and 95	No	No	Yes
	Delays due to 1+597 culvert construction	Traffic management plan has implemented	ID 26	No	No	Yes
North Western Province (Puttalam)						
PU 01	All construction material areas (Stockpile yards) were not rehabilitated.	All the Stockpile yards rehabilitated.	ID 05 (Ch. 05+690 and Ch. 01+220) ID 07 (Ch. 01+224) ID 01 (Ch. 02+450 and Ch.03+050) ID 14 (Ch. 00+080 section C and Ch. 01+250 section A)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
			ID 15 (Ch. 00+070 Section A and No 167 main road Kalpitiya) ID 43 (Ch. 09+600, Ch. 05+819LHS, Ch. 00+350 and Ch. 02+300)			
	All excavated material dumping areas (Disposal yards) were not rehabilitated.	All the Disposal yards rehabilitated.	ID 05 (Ch. 05+100) ID 07 (Ch. 01+224) ID 01 (Ch. 02+450) ID 14, Road End point Ch. 01+730 Section A ID 15, 628 Palliwasaturei (GN office land) Natthikalliya, Musalpitiya Palliwasaturei. ID 43 (Ch. 02+300 and Ch. 09+600)	No	No	Yes
	Borrow pit areas were not rehabilitated.	Burrow pit areas rehabilitated.	ID 05 (Ch. 04+465)	No	No	Yes
	Excavated soil was dump in to the canal.	That soil removed and dumped in to the authorized place.	ID 07 (Ch. 10+396)	No	No	Yes
	Construction debris was piled at road edge. (Curve widening areas)	That was removed and dumped in to the Authorized places.	ID 07 (Ch. 00+155)	No	No	Yes
	Weeding was not removed by cutting.	Weeding cut properly.	Entire road ID 07	No	No	Yes
	Safety issues due to incomplete	House access completed.	ID 05 (Ch. 00+290 RHS	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	house access.		and Ch. 01+205 RHS).			
	Access culvert's head wall has been damaged	The headwall re-constructed	ID 07 (Ch. 01+224 RHS)	No	No	Yes
	Safety issue were raised due to partially constructed shoulder eroded.	The shoulder was constructed completely.	ID 07 (Ch. 08+065 /both side)	No	No	Yes
	Temporarily Stockpile is not in a safe condition.	Temporarily Stockpile barricaded and separated. Also it was deviated from the Road edge.	ID 07	No	No	Yes
	Safety issue was raised due to partially constructed shoulder and Embankment eroded;	Shoulder constructed in a proper manner with embankment too.	ID 07 (Ch. 09+500 RHS)	No	No	Yes
PU 02	Safety issues for Road users due to hazardous places (Culvert constructions)	Emergency works done and reduced the riskiness of the Culvert Deck.	ID 09 (Ch. 03+121)	No	No	Yes
	Safety issues for Road users due to hazardous places (Asphalt constructions)	Emergency works done and reduced the riskiness of the incomplete asphalts.	ID 04 (Ch. 02+038 to Ch. 02+074, Ch. 02+300 to Ch. 02+580, Ch. 05+000 to Ch. 05+053, Ch. 05+270 to Ch. 05+950, Ch. 08+990 to Ch. 09+300, Ch. 09+320 to Ch. 09+500, Ch. 10+700 to Ch. 11+150 and Ch. 11+180 to Ch. 11+810) ID 09 (Ch. 00+000 to Ch. 00+950)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
			ID 26 (Ch. 03+060 to Ch. 03+170, Ch. 04+275 to Ch. 04+310, Ch. 04+400 to Ch. 04+451, Ch. 05+390 to Ch. 05+400, Ch. 09+046 to Ch. 09+470 and Ch.09+580 to Ch.10+220)			
	Safety issues for Road users due to hazardous places (ABC and Prime constructions)	Emergency works done and reduced the riskiness of the incomplete construction.	ID 04 (Ch. 02+038 to Ch. 02+074, Ch. 02+300 to Ch. 02+580, Ch. 05+270 to Ch. 05+950, Ch. 08+990 to Ch. 09+300, Ch. 09+320 to Ch. 09+500 and Ch. 11+180 to Ch. 11+810) ID 09 (Ch. 00+000 to Ch. 00+950) ID 26 (Ch. 05+490 to Ch. 05+505, Ch. 09+790 to Ch. 10+220 and Ch. 09+790 to Ch. 09+980)	No	No	Yes
	Safety issues for Road users due to hazardous places (Shoulder construction)	Emergency works done and reduced the riskiness of the incomplete construction of shoulders of the roads.	ID 26 (Ch. 09+980 to Ch. 10+220)	No	No	Yes
	Dust Issues	Reduced the vehicle speed Water Sprinkled to the road	IDs 09, 13, 27, 04 and 26	No	No	Yes
PU 03	Safety issues for Road users due to construction activities and due to hazardous places (such as culvert constructions)	Proper traffic control and Sign boards used and flagmen added to that places. Aware the	IDs 17, 21, 22, 39, 38, 40 and 42	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		road users using notices.				
	Dengue disease was spread because of the water stagnated.	Weekly used the BTI bacteria to prevent dengue disease & dispose the empty barrels properly.	Main laboratory & stores	No	No	Yes
	Dust Issues	Reduced the vehicle speed Water Sprinkled to the road	IDs 17, 21 and 38	No	No	Yes
	Waste material near the roads edges	Collected the waste material and dumped in to the authorized places.	IDs 17, 21 and 38	No	No	Yes
	Safety issues for Road users due to hazardous places (Culvert constructions)	Emergency works done and reduced the riskiness of the Culvert Deck.	ID 21 (Ch. 03+725)	No	No	Yes
	Safety issues for Road users due to hazardous places (Asphalt constructions)	Emergency works done and reduced the riskiness of the incomplete asphalts.	ID 17(Ch. 00+856 to Ch. 00+920 and Ch. 01+340 to Ch. 02+210) ID 21(Ch. 02+615 to Ch. 02+650, Ch. 03+480 to Ch. 03+650, Ch. 03+790 to Ch. 04+110, Ch. 04+210 to Ch. 04+750, Ch. 05+580 to Ch. 06+040, Ch. 06+410 to Ch. 06+520 and Ch. 06+540 to Ch. 06+645) ID 22 (Ch. 03+372 to Ch. 03+500) ID 34 (Ch. 03+970 to Ch. 04+050 and Ch. 03+210 to Ch. 03+290)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
			ID 38 (Ch. 00+020 to Ch. 02+330)			
	Safety issues for Road users due to hazardous places (ABC and Prime constructions)	Emergency works done and reduced the riskiness of the incomplete construction.	ID 17 (Ch. 01+340 to Ch. 02+210) ID 21 (Ch. 03+510 to Ch. 03+650, Ch. 03+790 to Ch. 04+110, Ch. 04+210 to Ch. 04+750, Ch. 06+410 to Ch. 06+520 and Ch. 06+540 to Ch. 06+645) ID 22 (Ch. 03+372 to Ch. 03+500) ID 33 (Ch. 01+600 to Ch. 01+730) ID 34 (Ch. 03+970 to Ch. 04+050 and Ch. 03+210 to Ch. 03+290) ID 38 (Ch. 00+350 to Ch. 02+330)	No	No	Yes
	Safety issues for Road users due to hazardous places such as hard shoulder, embankment and demolishing the brick wall)	Emergency works done and reduced the riskiness of the incomplete construction.	ID 17 (Ch. 03+810 to Ch. 03+845) ID 33 (Ch. 01+600 to Ch. 01+730) ID 38 (Ch. 00+965 to Ch. 01+015)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
North Central Province (Anuradhapura)						
AP 01	Because of the civil works were completed in the starting of year	<div>1. Turfing, remove debris and Drainage Clearing was done.</div> <div>2. Stock pile yard rehabilitation.</div> <div>3. Vegetation Control; over grown tree branches have removed for increasing visibility of carriageway and sign boards and Vegetation Control.</div> <div>4. Use proper slope protection methods (Turfing).</div> <div>5. Cleared by road locations.</div> <div>6. Cleared disrupted drainage systems.</div>	All the roads in 4 packages.	No	No	Yes
AP 02	2019, there is no significant issues to be completed. But before the PBM period, some of the common issues were complied.					
AP 03						
AP 04						
North Central Province (Polonnaruwa)						
PO 01	All Civil works were completed and there is no significant issues to be completed. Therefore, the PBM period is ongoing in these packages.	.N /A	N/A	N/A	N/A	N/A
PO 02						
PO 03						

Annexure VI.

Tree removal and re-planting progress

Table 1: Tree Planting Progress

Contract Package	No. of Trees to be removed	No. of Trees removed	No. of Trees to be planted	No. of Trees re-planted
Kurunegala (NWP)				
KU 01	68	66	198	266
KU 02	04	02	06	40
KU 03	17	13	39	60
KU 03-R	02	01	03	Pending
KU 04	05	00	00	12
KU 05	09	06	18	87
KU 05-R	04	04	12	Pending
Puttalam (NWP)				
PU 01	11	02	06	52
PU 02	16	07	21	55
PU 03	06	06	18	10
Anuradhapura (NCP)				
AP 01	07	03	09	100
AP 02	74	27	81	188
AP 03	61	33	99	177
AP 04	11	08	24	111
Polonnaruwa (NCP)				
PO 01	263	56	168	170
PO 02	09	07	21	60
PO 03	70	06	18	250
Total				
	637	247	741	1638

Table 2: Tree Planting Programs of NCP

S. No.	CP	No. of trees removed	No. of trees to be planted	No. of trees planted	Species	Location	No. of balance trees to be planted
1	AP 01	03	09	100	Diwul, Kohomba, Ma dam, Mee	Keerikkulama – Road IDs 41 & 43	-
2	AP 02	27	81	21	Kumbuk, Ahetu, Mango	Along Jaya Mawatha in between 48km post to 50 km post	-
				127	Mee, Mango, Kumbuk, Domba, Ehatu, Nuga	Road side of the ID 26.	
				40	Lime and Mango	Road ID 26, Karawilagala School	
3	AP 03	33	99	35	Cashew, Mango, Mee	A/Siyabalagaswewa Vidyalaya, Seeppukulama	-
				17	Jack, Kumbuk, Lime, Ehela, Kohomba	Isurumuniya Raja Maha Viharaya, Anuradhapura	
				77	Kohomba, Bulu, Karanda, Mee	Forest land Road ID 24, Ch.01+875 LHS	
				23	Nelli, Bulu, Mee, Na, Jack Tree	Purana Gal Anda Viharaya-Road ID 25- Ch.01+175 RHS	

S. No.	CP	No. of trees removed	No. of trees to be planted	No. of trees planted	Species	Location	No. of balance trees to be planted
				25	Mango	A/ Siyabalagaswewa Vidyalaya, Seepukulama.	-
4	AP 04	08	24	50	Mango, Guava, Governor's Plum, Pomegranate, Ox-Heart, Ambaralla, Rose Apple, Ceylon Olive, Orange	Ho/ Ruwanweli Central College	-
				15	Kumbuk Trees	Road ID 32 – Ch. 00+010 Ch. 00+500 Both sides	-
				10	Mee (<i>Madhuca longifolia</i>)	Road ID 33 - Ch. 01+100 LHS	-
				36	Mee (<i>Madhuca longifolia</i>), Kumbuk	Road ID 57 – Ch. 04+800 to Ch. 05+000 - LHS, Ch. 02+600 to Ch. 02+400 – RHS Ch. 01+900 - RHS	-
5	PO 01	56	168	40	Mango, Cashew	Yaya 14, Kotta pitiya	-
				130	<i>Khaya senegalensis</i> (<i>African Mahogany</i>).	Konduruwawa Yaya – 32	
6	PO 02	07	21	10	Mango	Temple – Road ID 25 (Ch. 02+860 LHS)	-
				25	Mango, Nelli, Kumbuk, Jack Trees, Panimora, Karanda and Ehela	Road ID 46 - Vivekaramaya Hathamuna.	
				25	Mango, Nelli, Kumbuk, Jack Trees, Panimora, Karanda and Ehela	Road ID 46 - Gangaramaya, Hathamuna.	
7	PO 03	06	18	250	Burutha, Kohomba, Na, Kumbuk, Mango, Jack Tree, Mee	Medagama Maha Vidyalaya, Dimbulagala.	-

Table 3: Tree Planting Programs of NWP

S. No.	CP	No. of trees removed	No. of trees to be planted	No. of trees planted	Species	Location	No. of balance trees to be planted
01	KU 01	66	198	42	Kohomba, Ehela, Delum, Mango, Kumbuk, Mee, Madatiya, Madan	Ranagalla primary school (Ch. 07+800 Km LHS/RHS) Wayamba Sri Siddhartha Vidyalaya (Ch. 03+700 Km LHS)	-
				93	Welan, Madan, Karanda, Mee, Kobo Leela, Kumbuk	Sri Bodhi MMV, Kumbukgahamulla (Ch. 00+565 Km- Ch. 00+690 Km RHS)	
				21	Kohomba, Welan, Halmilla, Kumbuk, Ehela, Mee	Nakkawattha Primary school (Ch. 02+200 Km LHS)	
				12	Kohomba, Welan, Halmilla, Kumbuk	Sri Sambuddhaloka primary school, Karaula. (Ch. 00+080 Km – CH. 00+170 Km LHS)	
				50	Kohomba, Welan, Madan, Karanda, Mee, Madatiya, Na	Wellarawa central college (Ch. 02+400 Km LHS/RHS)	
				16	Welan, Kumbuk, Halmilla, Ehela	Kamburapola Maha Vidyalaya (Ch. 00+050 Km- Ch. 00+110 Km RHS)	
				12	Madatiya, Pihimbiya, Mee, Ehela	Kosdeniya Maha Vidyalaya (Ch. 06+200 Km LHS/RHS)	
				20	Kumbuk, Madatiya, Ma Dan, Pihimbiya, Mora, Mee, Kohomba, Ehela	Udawela Rewatha Central College (Ch. 02+350 Km LHS)	
2	KU 02	05	15	10	Kohomba, Mango and Avocado	Sri Meththarama Raja Maha Viharaya. (Road ID 102)	-
				30	Mango, Rambutan, Wood apple, Jambu, Guava, Belly	Giri/ Wickramanayake Maha Vidyalaya, Abbowa.	
3	KU 03	13	39	25	Veralu, Ehela, Uguressa, Dewadara, Orange, Kamaranka, Jambu, Nelli, Anoda, Mee	Kanawa Maha Vidyalaya, Kanawa (Road ID 22)	-
				10	Kohomba, Nelli, Kohomba, Hathawariya, Delum, Saman Pichcha, Orchid Tree, Dehi, Anoda	Watareka Maha Vidyalaya (Road ID 17)	-
				25	Fruit and Medicinal Plants	Boyagane Maha Vidyalaya. (Road ID 68)	-

S. No.	CP	No. of trees removed	No. of trees to be planted	No. of trees planted	Species	Location	No. of balance trees to be planted
4	KU 03-R	01	03	-	-	-	-
5	KU 04	00	00	12	Bud Ehela and Kohomba	Kasikote Primary School	-
6	KU 05	01	03	87	Savandana, Ela Nithulla, Nika, Marathodu, Welme, Ath Nithulla, Walas Adiriya, Pawatta, Bim Kohomba, Masbedda, Thembu, Thota Thimbula, Komarika, Deththa, Nelli, Eth Demata, Kaha, Hathawariya, Thippili, Akkapana, Anoda, Mango, Jambu, Guava, Cashew, Kamaranga, Iron wood, Naran, Ugurassa, Lovi, Orange, Kumbuk, Nebada, Nuga	Ni/Wa. Naramana Maha Vidyalaya	-
7	KU 05-R	04	12	-	-	-	-
8	PU 01	-	-	52	Godarathmal, Daduha, Dan, Karanda, Halmilla, Maara, Boalpana, Kukuru Maha, Kuratiya, Kaluwara, Weera, Bokala, Kumbuk, Kota Dimbula, Mee, May mara, Yaki naran, Kohomba	Kalewewa Vijaya Maha Vidyalaya, Anamaduwa.	-
9	PU 02	07	21	15	Magul karanda, Kumbuk, Coconut	At Muslim Vidyalaya, Madawakkulama (Road ID 03)	-
				20	Magul karanda, Bo, Ahetu	At Dhammaloka Vidyalaya, Kelegama, Adippala. (Road ID 26)	-
				10	Magul karanda, Akeshiya, Ahetu	At Thissogama Primary School (Road ID 29)	-
				10	Magul karanda, Kaduru, Kohomba	Ch/Ar. Aththanganaya Government School.	-
10	PU 03	06	18	10	King Coconut	Sri Nadeeemathikaramaya, Muttibandiwi.	08 (This package is terminated and the Contractor could not be replanted the trees).

Annexure VII.

Property Condition Survey/Pre-cracked Survey

Property Condition survey/Pre-crack survey is a mandatory requirement of a standard project. Because, normally when heavy machineries such as 4 Ton Roller, 10 Ton Roller and Rammers' ***vibrational effect*** is cause to make damages into the common properties, houses, buildings, monuments etc. **Pre-Crack Survey** consists of a review of a property adjacent to a site where construction activities are about to begin. The main objective of the survey is to visually identify all existing signs of exterior, interior damage, roof damage or any signs of structural settlement, before construction begins. A PCS can protect the subject property owner and the contractor/developer of the site where construction activities will take place. For a property owner, the PCS documents the existing conditions so that any damage or structural settlement caused by the construction is appropriately attributed to the construction activities and, therefore, the responsibility of the contractor/developer to rectify. From the contractor/developer perspective, the PCS is primarily a loss control and claims defense mechanism. If a property owner alleges that damage was sustained due to construction activities, the pre-construction survey can be referenced to confirm what visible damage pre-existed the construction activity. This PCS document will provide written evidence to both parties to settle the dispute without costly legal proceeding. Hence, in this iRoad Project, currently the Pre crack surveys are properly doing because previously there were lots of house cracked issues involved. Then it was very difficult to evaluate condition of the damage without a Pre-crack survey document. Moreover, the Insurance companies are objecting to accept the claims lack of proper evidence/report. Also, in this project, there are two incidents which were raised critically about house cracks. Therefore, the compensations were given by using the Employer's claim. However, newly appointed Contractors are doing Pre-crack survey properly. And, they are monitoring by the SGRO/PIC 02. ESSO also supported to review.

Scientific reason of the vibrational effect: Direct vibration damage is caused by vibration energy transmitted to the foundation through direct contact with the bearing soils. Ground vibrations travel most often, in construction, as surface waves. This type of wave decreases in magnitude, or attenuates, with greater distance from the source of the vibrations.

Conditions of the iRoad Project: The Initial Environmental Examination (IEE) under Content No. V – Anticipated Environmental Impacts and Proposed mitigation measures - Sub Clause: B

and APPENDIX – 5: Environmental Management Plan - “Contractor shall take appropriate action to ensure that construction works do not result in damage to adjacent properties due to vibration. If any damages occur, contractor will be responsible for rectifying the damage.”



10 Ton Roller – Vibrational effect



Rammer – Vibrational effect



**Independent house cracked damage evaluation
at Mrs. Thamara Kumari's house**



**Independent house cracked damage evaluation
at Mrs. Ashoka Kumari's house**



**Compensating to Mrs. Thamara Kumari at Road
ID 66 – KU 02**



**Compensating to Mrs. Ashoka Kumari at Road
ID 27 – KU 04**

Case study 01

Package	: KU 05-R
Road IDs	: 1. 26 2. 79
Location	: 1. Ch. 01+597 LHS 2. Ch. 03+212 RHS
Issues	: 1. Proposed to remove 5 trees to construct a culvert's By-pass 2. Proposed to remove 2 trees to rehabilitate an existing culvert

Introduction:

1. A joint site inspection was conducted at Road ID 26 of KU-05(R) to comply a By-pass issue by PD, ESO, PE and AESO of RDA, CRE, ARE, ESSO, SGRO and CE of PIC 02 and the PM, DPM, ESO and SE from the Contractor on 25th of August 2020.
2. A joint site inspection was conducted at Road ID 79 of KU-05(R) to comply an issue of existing culvert by PD, ESO, PE and AESO of RDA, CRE, ARE, ESSO, SGRO and CE of PIC 02 and the PM, DPM, ESO and SE from the Contractor on 25th of August 2020.

Observation:

1. There were five trees which considered as native species located near the culvert and the Contractor has proposed to remove those trees and make a By-pass for the culvert construction.
2. There were two trees which considered as native species and common species located near the existing culvert was going to be removed

Problem:

1. It is useless to remove valuable trees for the By-passes. Therefore, ESSO & SGRO of PIC 02, ESO & AESO of RDA and ESOs/Contractor pointed out it clearly not to remove those and go to another option.
2. Especially, that culvert is located near a paddy field and the owner of it specially asked save that's trees because he needs that shade while farming.

Outcome:

1. **Instead of By-pass road option, decided to construct the culvert with half-half option.**

The protected trees are Helamba (*Mitragyna parvifolia*) and Karanda (*Pongamia pinnata*).

2. **Decided to shift one culvert location to save two trees the trees.**

The protected trees are Neem (*Azadirachta indica*) and Bulu (*Terminalia belerica*) trees.



At KU5-R on Rd ID 26 – Saved trees - 1



At KU5-R on Rd ID 26 – Saved trees - 1



At KU5-R on Rd ID 79 – Owner of the Paddy land (The Farmer who requested to not to remove) - 2



At KU5-R on Rd ID 79 – Saved Trees - 2

Case Study 02

Package	: KU 03-R
Road ID	: 37
Location	: Ch. Ch. 01+925 LHS to Ch. 01+934 LHS
Issue	: A large-scale Rock boulder has been collapsed in to the road.

Introduction: A joint site inspection was carried out to this location with PD-NWP, PE-KU 03R, ARE-KU, ESSO-PIC 02, SGRO-PIC 02 and PM-KU 03R on 07th of December 2020.

Observation:

Collapsed boulder is being blasted and removed using Chemical blasting technique.

Especially the place where the Rock boulder was embedded before it is collapsed is now in an unstable situation. If any heavy rain fallen the surface drainage will be happened. Therefore, the loosed soil will be eroded and it cause an unsafe slope.

Problem statement: Collapsed boulder will be removed as soon as possible and It is clearly understood that the slope protection should be done and Bio-engineering techniques can be used for it.

Outcome: Finally, a culvert was constructed at Ch. 01+830 and then 40 ft Hume pipes were laid to divert water from the right side of the land. After that above problem was solved with the satisfaction of all the parties.

Solution: ***The Proposal*** of applying the Bio-engineering technique for the Slope protection is prepared by ESSO/PIC 02 and it was sent to NBRO District office of Kurunegala for as a Pilot project. Pending for the outcome.

Title: The Proposal of applying the Bio-engineering technique for the Slope protection

Introduction: Bio-engineering is the application of Engineering Technology to biological systems or vice versa. It includes the use of vegetation in engineering layout to protect natural terrain and manmade systems from slope failure and soil erosion issues. This has been practiced in many parts of the world for centuries and an accepted method for landslide prevention. But the slope protection is comparatively new and is continuously evolving and has recently been adopted as a viable soil stabilization method.

There two terms which called **soil bioengineering** and **soil biotechnical** techniques used in concurrence. The Soil bioengineering is a technique that uses plants (grasses and shrubs, especially deep-rooted species) and plant material alone which are an important structural component in reducing the risk of slope erosion and its measures are designed to aid or enhance the reestablishment of vegetation. And the Biotechnical techniques use plants in conjunction with more traditional engineering measures and structures to stabilize slopes are currently employed to alleviate shallow, rapid landslides and eroding stream banks.

In addition to **engineering, ecological, and economic benefits**, both above systems are contributing to sustainable development practices as they enhance the aesthetics of the environment and reduce the ecological impacts of **construction, maintenance, and operations**.

Apart from that frequently mimics nature by using **locally available materials** and **minimal heavy equipment**, and is **an inexpensive way to treat slope stabilization**. Anyhow the general perspective is that properly designed and installed vegetative portions of systems should become self-repairing, with only minor maintenance to maintain healthy and vigorous vegetation.

The following basic concepts aid in the selection of soil bioengineering and biotechnical treatments.

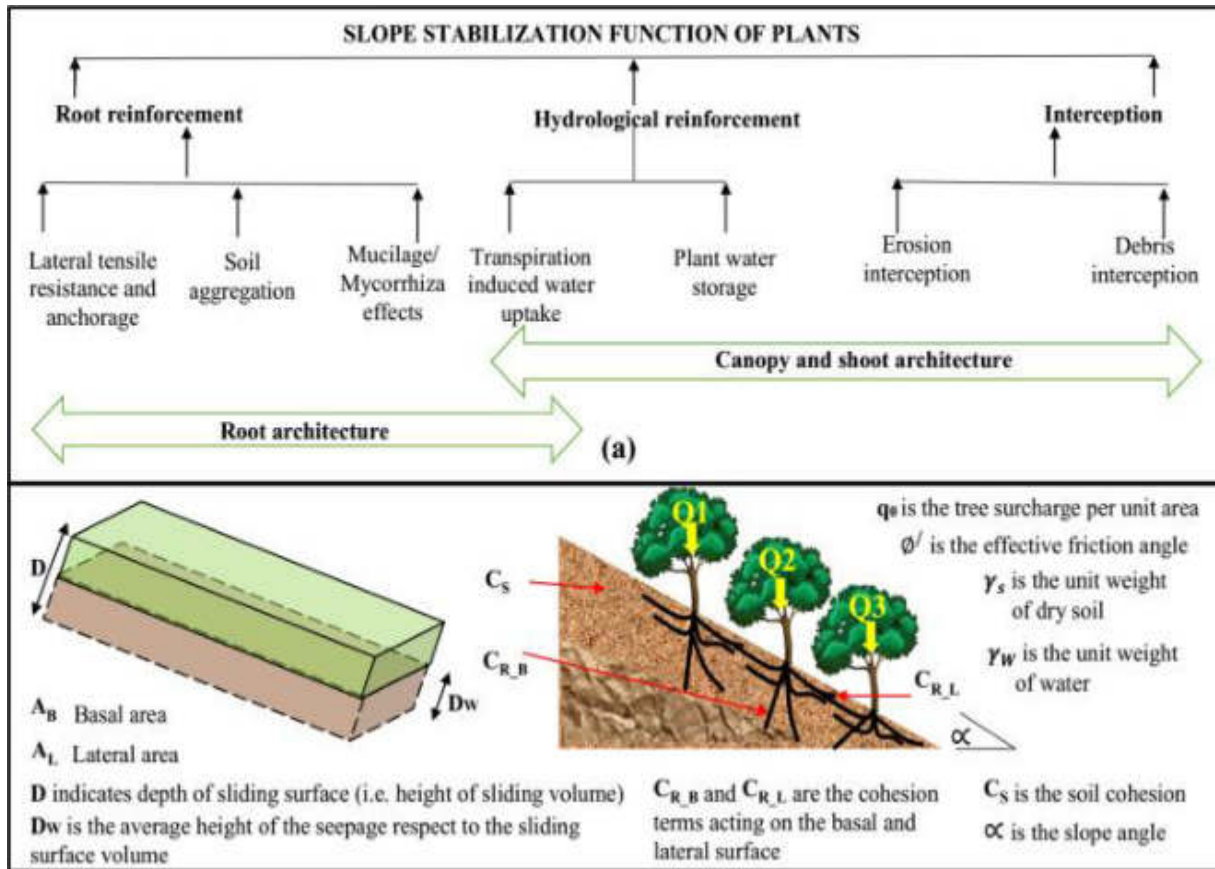
- **Fit the system to the site.**
- **Consider topography, geology, soils, vegetation, and hydrology.**
Avoid extensive grading and earthwork in critical areas.
- **Test soils to determine if amendments are necessary.**
- **Use on-site vegetation whenever possible.**
- **Limit the amount of disturbed area at each site. Any displaced materials are to be kept on site and re used if possible.**
- **Clear sites during times of low precipitation.**
- **Stockpile or protect the topsoil and reuse during planting.**
- **Utilize temporary erosion and sediment control measures.**
- **Divert, drain, and/or store excess water.**

The selection of plants or vegetation for bioengineering applications should consider the views of several disciplines and is often a collaborative exercise between soil scientists, hydrologists, botanists, engineering geologists, maintenance personnel, civil engineers, and landscape architects. The role of vegetation in protecting the soil from erosion has long been recognized. The effectiveness of plants for erosion control, slope protection, and landslide prevention depends on the plant architecture and mechanical properties. Anyhow some plants will be more suitable than others for erosion control, but may be less effective against slope failures and landslides.

Thus, the selection of suitable plant species to achieve the desired objective requires a careful balance of considerations. For each field site and each set of objectives, different factors should be considered.

Soil bioengineering has six main functions:

- i. **To catch eroded materials with physical barriers (e.g., walls, vegetation);**
- ii. **To armor the slope from erosion caused by runoff or rain splash using vegetative cover / to create partial armoring using lines of vegetation;**
- iii. **To reinforce soil physically with plant roots;**
- iv. **To anchor surface material to deeper layers using rock bolts or large vegetation with deep roots;**
- v. **To support soil by buttressing with retaining walls or large vegetation; and**
- vi. **To drain excess water from the slope through the use of drains and vegetation.**



Problem Statement: A Large-scale rock boulder has been collapsed in to the road (At Ch. 01+925 LHS to Ch. 01+934 LHS of Road ID 37) which was initially embedded in the soil overburden of the upper slope near to Mr. Wickramapala's house. Therefore, especially the place where the Rock boulder was embedded before it is collapsed is now in an unstable situation.

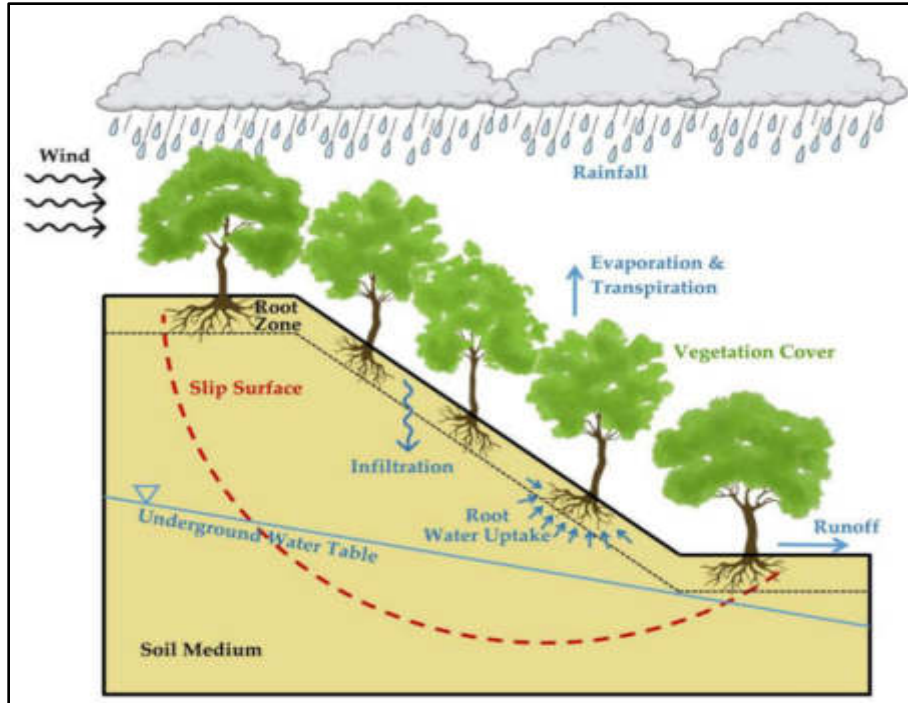
Scope of study: A suitable plant or plants should be selected and planted for slope stabilization by considering the basic concepts and functions of bioengineering for slope protection. Because considering soil, bioengineering has advantaged that rock and cement do not have. As an example, plant life can provide air pollutant uptake and carbon sequestration. Plants additionally offer visual benefits such as distraction screening, steering and navigation enhancement, and aesthetic pride.

Objectives: The objective of bioengineering plants and their use for slope stabilization, instead of using a non-ecological solution such as concrete are **catching raindrops, armoring the soil surface, and reinforcing, supporting, anchoring, and draining the soil.**

Moreover, conventional methods for slope stabilization have drawbacks such as unsightliness and higher cost. Therefore, the vegetation can be used to enhance slope balance in a number of ways; **such as by mechanical reinforcement, controlling erosion, increasing the infiltration ratio, decreasing runoff, and soil moisture adjustment.**

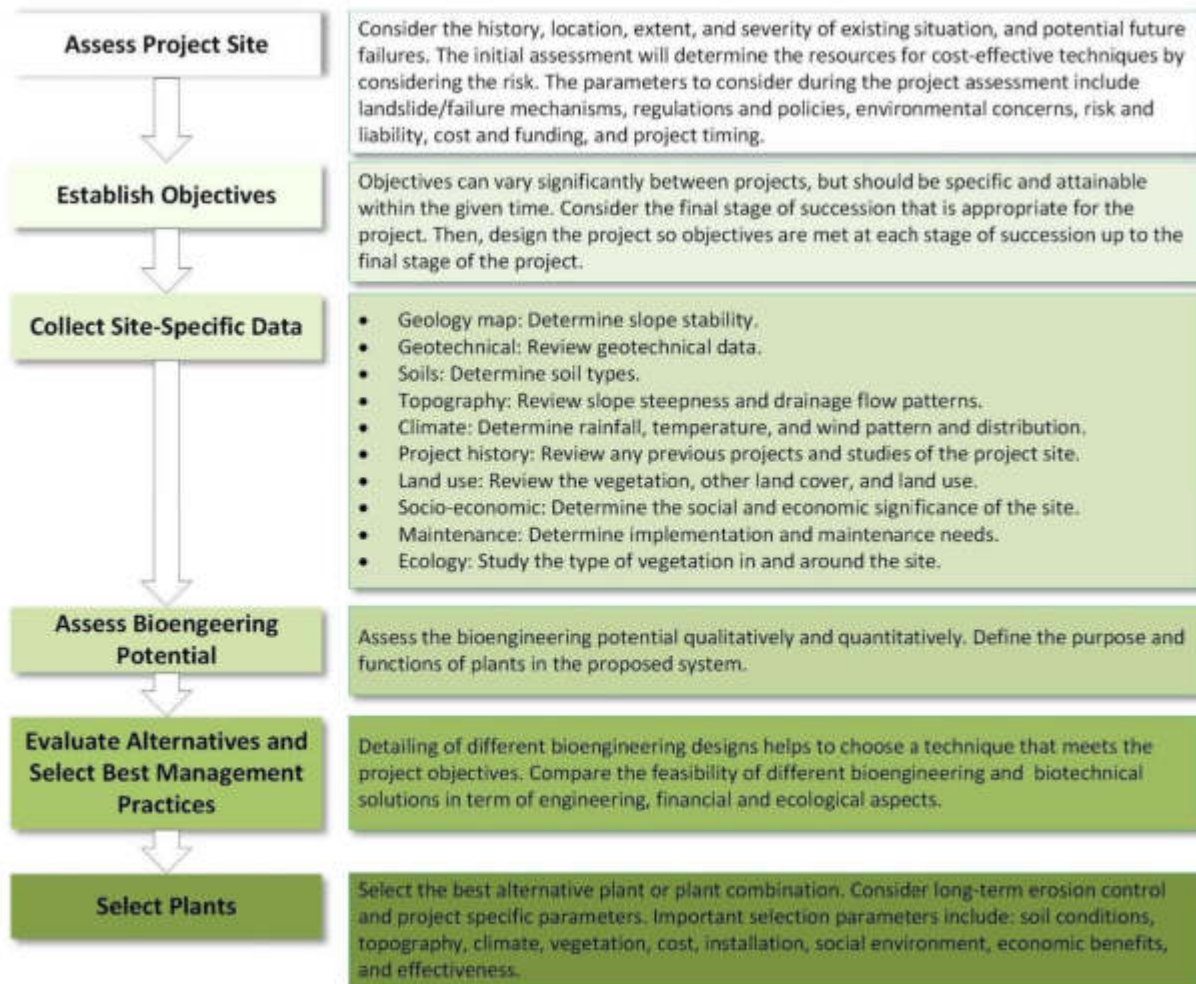
Apart from that the beneficial effects of vegetation on the mass balance of slopes are:

- (1) **Root reinforcement**: roots automatically reinforce a soil via switch of shear strain inside the soil to tensile resistance inside the roots. (Li et al, 2016)
- (2) **Soil moisture depletion**: evapotranspiration and interception in the foliage can restrict buildup of tremendous pore water pressure.
- (3) **Buttressing and arching**: anchored and embedded stems can act as buttress piles or arch abutments to counteract downslope shear forces.
- (4) **Surcharge**: weight of plants can (in certain instances) increase balance through elevated confining (ordinary) pressure on the failure surface.



Materials and Methods:

The six steps of the plant selection process



Recommendation:

According to the referred field, it is a **hilly terrain** and **immature brown loamy soil** can be seen that particular area. Therefore, by considering above all the aspects, the suitable plant is,

Botanical name: -*Vetiveria zizanioides*

English name: -Khas-Khas, Vetiver grass

Family name: -POACEAE

Sinhala name: - Savandara

Local name: - Savandara

Tamil name: -Vettver, Kuruver

Sanskrit name: - Usira, Nalada, Amrunala, Sevya, Samagandhika

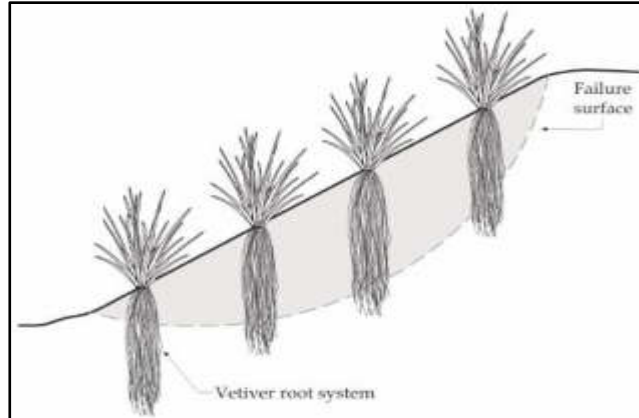
Status: -Native

Grows in: -Sri Lanka, India, Haiti, Java

Ayurvedic usage: Treatment for: - Skin diseases, Diarrhea, Dyspepsia, Coughs, Hiccough

Parts used to make medicine: - Roots, Barks, Seeds, Twigs.

Propagation: - By roots



Photographs:



The place where the Rock boulder was embedded before it is collapsed



Deep sloppy area (Proposed area for apply the Bio-engineering Technique)



Collapsed Rock Boulder



Reference figure: Slope protected by using *Vetiveria zizanioides*

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- https://www.vetiver.org/ICV3-Proceedings/THAI_slopestab.pdf (Accessed on: December 15th, 2020)
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