

Environmental Monitoring Report

Project Number: 47273-004 /005 /006
Loan Numbers: Tranche 2 – 3221 /3222
Tranche 3 – 3325 /3326
Tranche 4 – 3610
Annual Report
December 2018

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 and Road Development and Petroleum Resources Development 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 2018

REPORT PREPARED BY

PYUNGHWA ENGINEERING CONSULTANTS

In Association with

RESOURCES DEVELOPMENT CONSULTANTS

On behalf of

ROAD DEVELOPMENT AUTHORITY

**MINISTRY OF HIGHWAYS, ROAD DEVELOPMENT
AND PETROLEUM PRODUCTS**

Submitted to

ASIAN DEVELOPMENT BANK



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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
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
NCD	=	Not Communicable Diseases
NCP	=	North Central Province
NWP	=	North Western Province
PC	=	Provincial Council
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
SE	=	Site Engineer
SGRS	=	Social, Gender & Resettlement Specialist
SLRM	=	Sri Lanka Resident Mission
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 – 2018

1.0 Introduction

The iRoad program is currently operated in Southern (Project 1), Sabaragamuwa and Kalutara District (Project 2), Central Province (Project 3), North Central Province (Project 4) and North Western Province (Project 5). In year 2018 program was under Tranche 4 & PIC2 supervise the implementation of civil works contracts of Project 4 & 5.

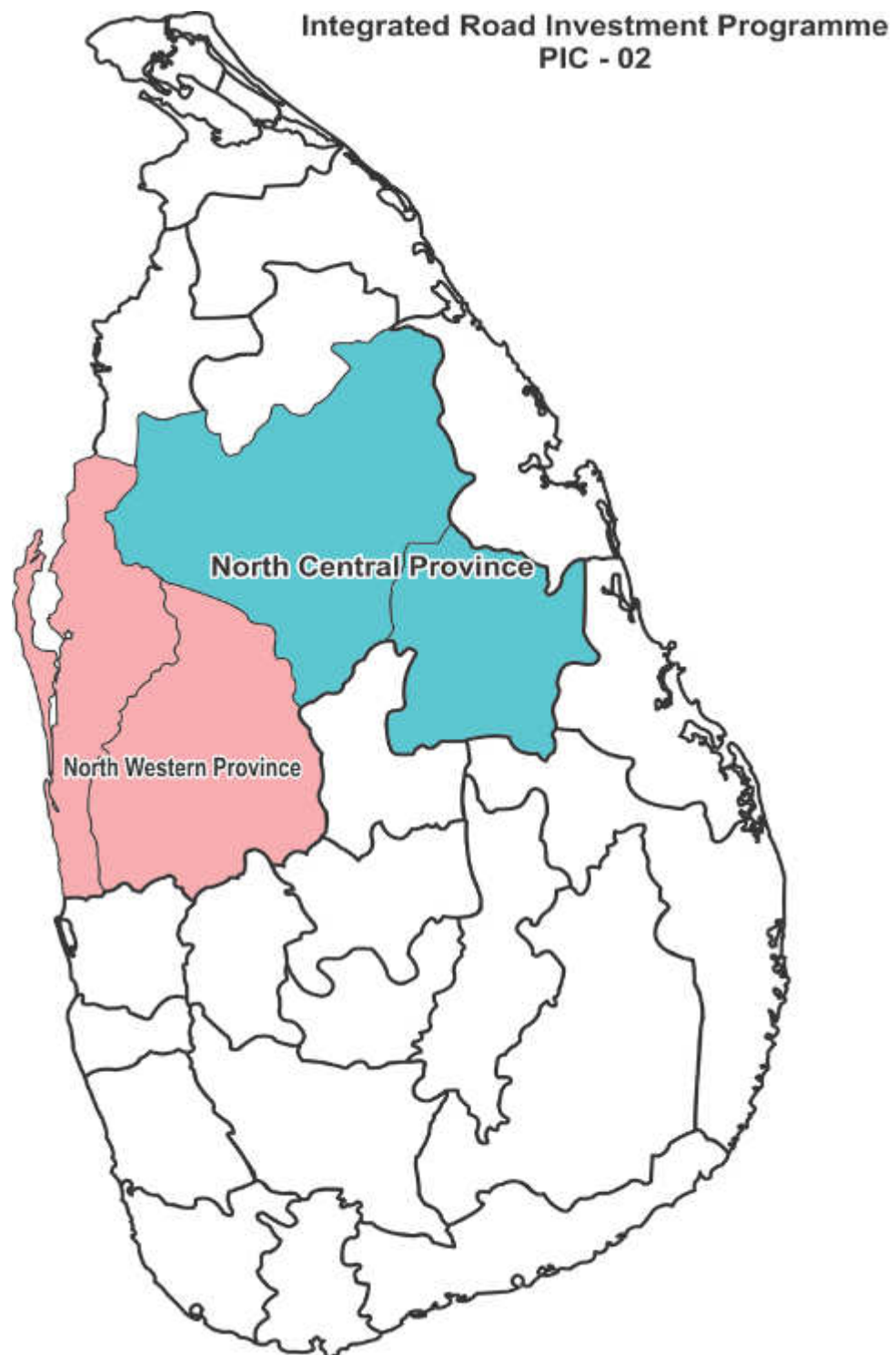
This is the Annual Environment Monitoring Report – 2018 prepared on behalf of the iRoad PIC2 of North Western Province and North Central Province. In accordance with the EARF, this is a compulsory report that should be prepared by the iRoad PIC2.

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 2018 of iRoad Program. In accordance with the agreement, ADB provides \$200 million with \$23.88 million counterpart of Sri Lanka and total amount is \$223.88 million.

The Project Implementation Consultants (PIC2) were deployed from 15th 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.

As per the road categorization, around 560.61km of PS roads, 637.63km of PRDA/PRDD roads and 4.53km of RDA roads are included in this program for rehabilitation. The total length is 1202.77Km. The construction activities have to be completed within 24 months by Contractors and completed roads should be maintained by them for 36 months. The roads will be rehabilitated as Conventional Roads Contracts (CRCs). Figure 1 below presents the location of projects 4 and 5.

Figure 1: Provincial Locations



1.1 Contract Package Summary

Table 01: CRCs in Kurunegala District

No	Contractor	Accepted Contract Amount (LKR)	Commence-ment Date	RDA (km)	PRDD (km)	PS (km)	Total (km)
1	MAGA Engineering PLC	2,005,790,082.72	01/08/2016	-	60.02	30.18	90.20
2	KDAW-BMG JV	2,124,166,266.00	01/08/2016	-	44.43	38.86	83.29
3	Ranken Railway Construction Group Co. Limited	1,976,721,917.95	01/08/2016	-	58.88	41.57	100.45
4	VV Karunaratne Company	2,091,174,540.00	01/08/2016	-	66.37	23.51	89.88
5	Ranken Railway Construction Group Co. Limited	1,996,560,050.43	01/08/2016	-	56.62	49.21	105.83
	Total	10,194,412,857.10	-	-	286.32	183.33	469.65

The locations of the 469.65Km (76 Nos.) roads in Kurunegala District are shown in **Figure 2**

Figure 2: Project Roads in Kurunegala District

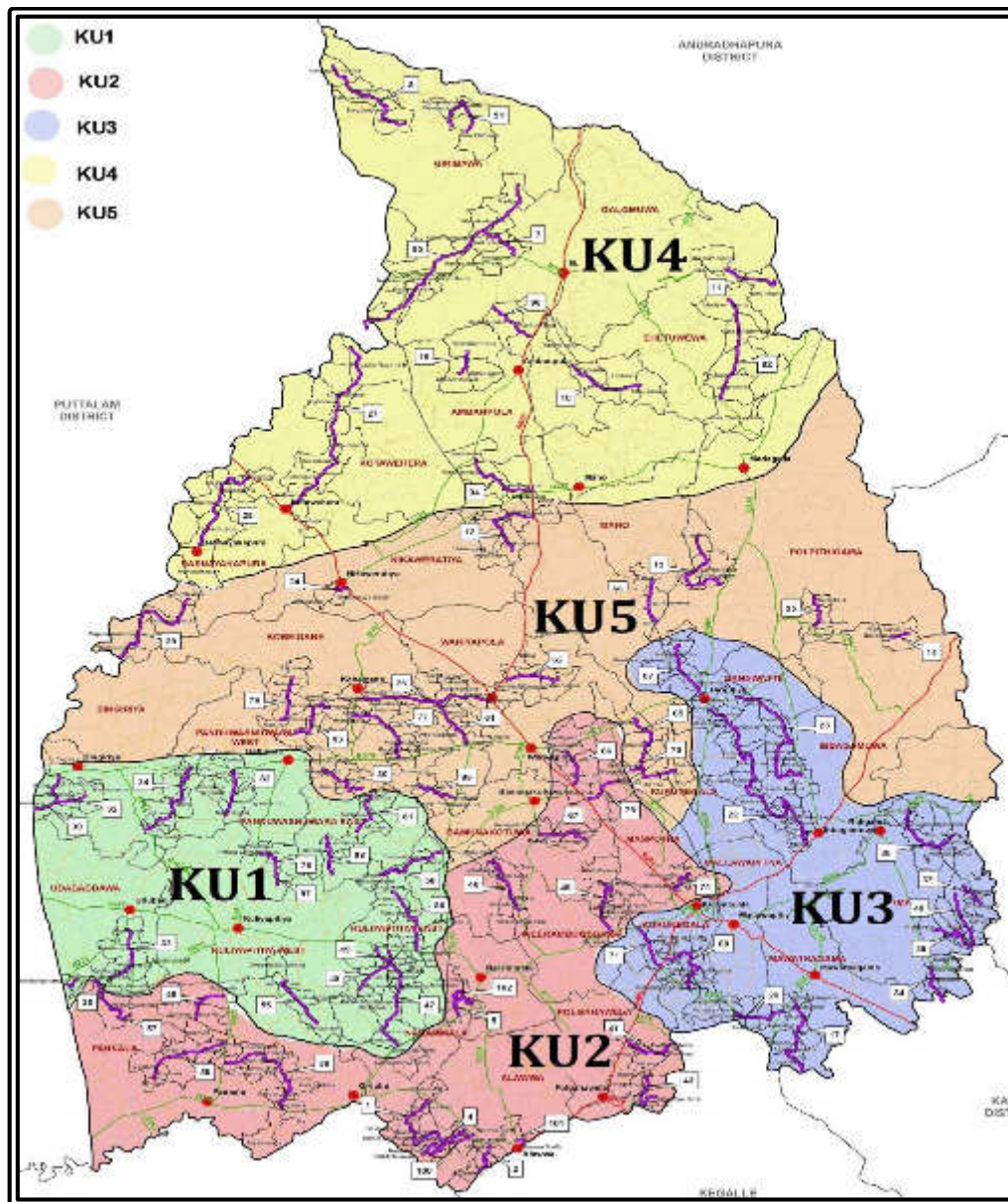


Table 02: CRCs in Puttalam District

No	Contractor	Accepted Contract Amount (LKR)	Commencement Date	RDA (km)	PRDD (km)	PS (km)	Total (km)
1	Ranken Railway Construction Group Co. Limited	1,706,320,523.61	01/08/2016	-	47.30	45.20	92.50
2	VV Karunaratne & Company	1,463,917,284.00	01/08/2016	-	41.15	32.98	74.13
3	VV Karunaratne & Company	1,210,355,904.00	01/08/2016	-	43.35	5.02	48.37
	Total	4,380,593,711.61	-	-	149.86	69.85	219.71

The locations of the 219.71Km (37 Nos.) roads in Puttalam District are shown in **Figure 3**

Figure 3: Project Roads in Puttalam District



Table 03: CRCs in Anuradhapura District

No	Contractor	Accepted Contract Amount (LKR)	Commencement Date	RDA (km)	PRDA (km)	PS (km)	Total (km)
1	MAGA Engineering PLC	1,656,915,760.00	01/08/2016	-	20.49	64.60	85.09
2	MAGA Engineering PLC	1,824,178,003.20	01/08/2016	4.53	36.05	36.27	76.85
3	MAGA Engineering PLC	1,492,772,165.28	01/08/2016	-	53.99	28.66	82.66
4	MAGA Engineering PLC	1,635,133,956.00	01/08/2016	-	60.02	30.18	90.20
	Total	6,608,999,884.48		4.53	170.55	159.71	334.79

The locations of the 334.79Km (60 Nos.) roads in Anuradhapura District are shown in **Figure 4**

The map displays the four administrative regions of Sri Lanka, each color-coded and labeled as follows:

- AP1 (Green):** Western and Central regions.
- AP2 (Yellow):** Southern region.
- AP3 (Blue):** Eastern region.
- AP4 (Pink):** Northern region.

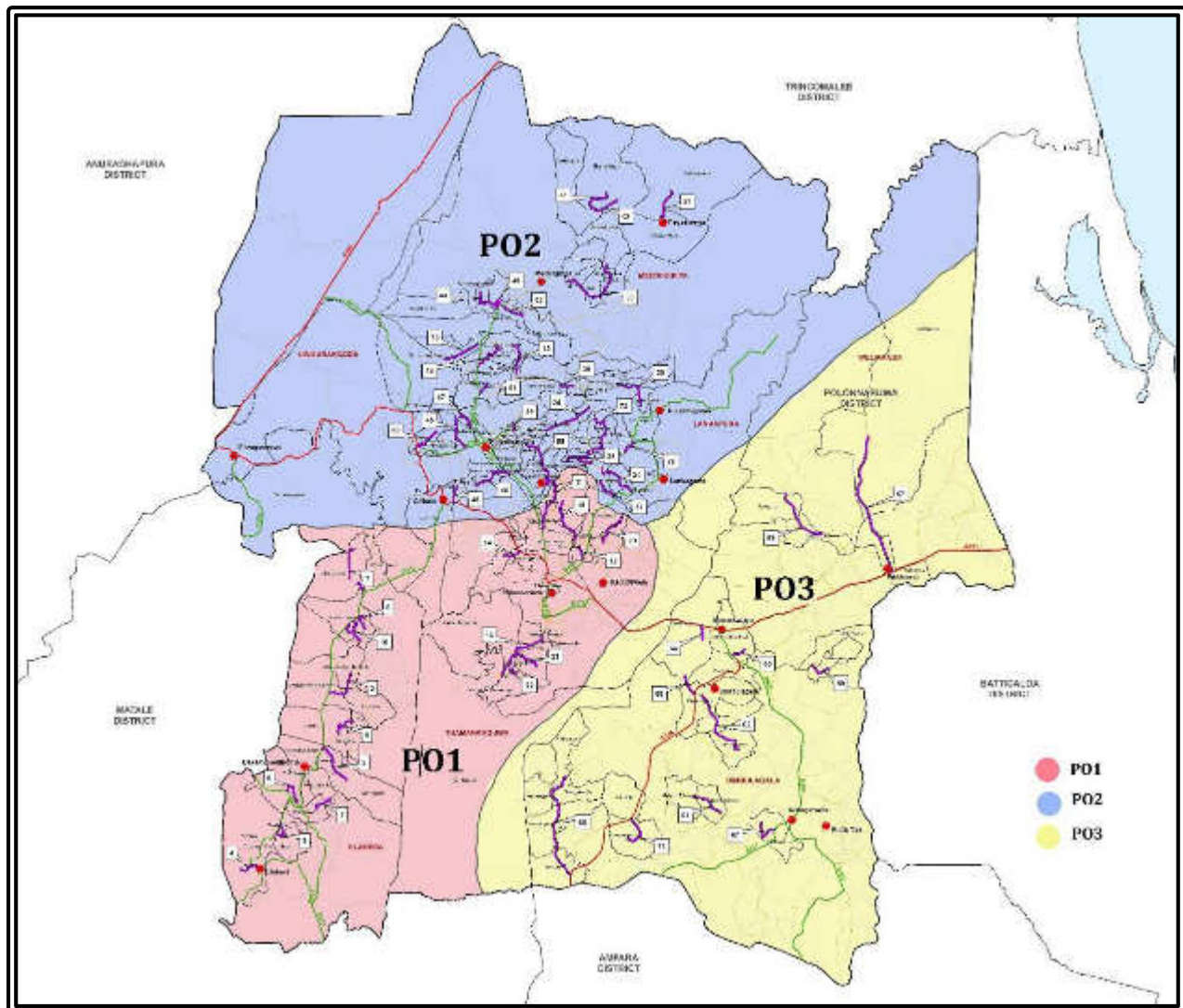
Major cities and districts are marked across the map, including Colombo, Kandy, Galle, and Trincomalee. The legend in the bottom right corner provides a key for the regions.

Table 04: CRCs in Polonnaruwa District

No	Contractor	Accepted Contract Amount (LKR)	Commencement Date	RDA (km)	PRDA (km)	PS (km)	Total (km)
1	MAGA Engineering PLC	1,158,532,987.42	01/08/2016	-	11.59	39.17	50.76
2	MAGA Engineering PLC	1,824,178,003.20	01/08/2016	-	22.31	51.05	73.36
3	TISSA – AMSK JV	1,492,772,165.28	01/08/2016	-	44.30	5.25	49.55
	Total	6,608,999,884.48		-	78.20	95.47	173.67

The locations of the 173.67Km (54 Nos.) roads in Polonnaruwa District are shown in **Figure 5**.

Figure 5: Project Roads in Polonnaruwa District



1.2 Staffing Setup (PIU/PIC/Contractor) with respect to environmental safeguards

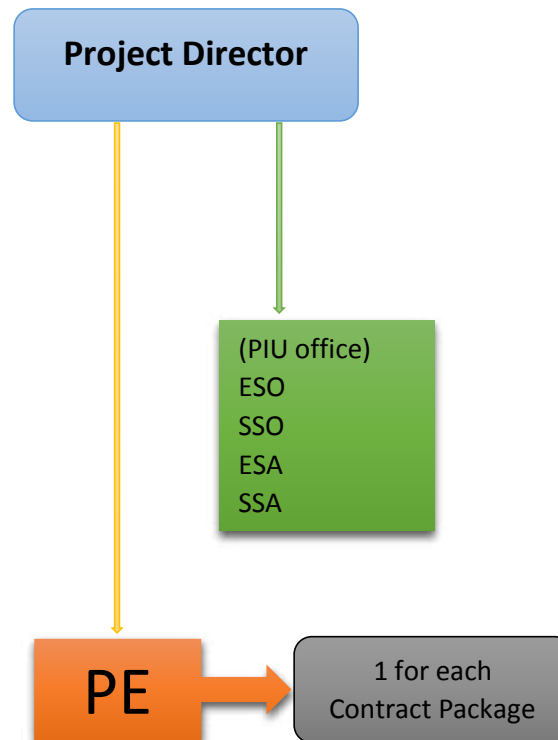
This PIC2 of iRoad program covers 227 roads in two provinces named North Western and North Central Provinces with two Project Implementation Units (PIUs) of two provinces. Hence PIC-2 has to work with 15 Contract Packages. During past period of 29 months, full effort was taken by all parties to recruit Environmental and Social Safeguards Officer (ESSO), District Social and Environmental Safeguards Assistants (DSESAs) and other officers to implement and monitor the environment safeguards component.

1.2.1 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 Environmental Safeguards Officer (ESO) of NCP resigned in December 2017. However, 2 required officers were recruited for NCP in 2018. Unfortunately, the ESO of NCP resigned in the mid of the year.

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 people and line agencies.

Chart 1: PIU Staff (Environmental Related) as per the project requirement

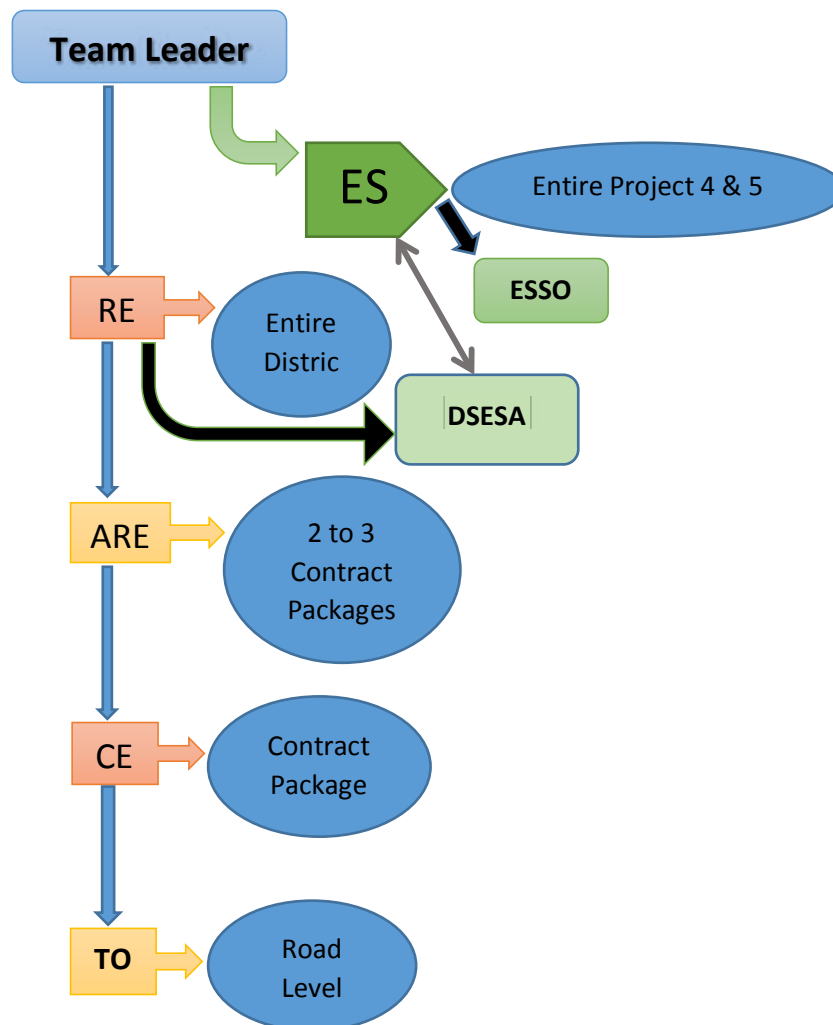


1.2.2 PIC Staff

The PIC2 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 PIC2. In addition, a Social, Gender & Resettlement Specialist has been appointed from the beginning. ES covers many activities related to environmental safeguards in accordance with contractual guidelines. 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.

Chart 2: PIC Staff (Environmental Related)

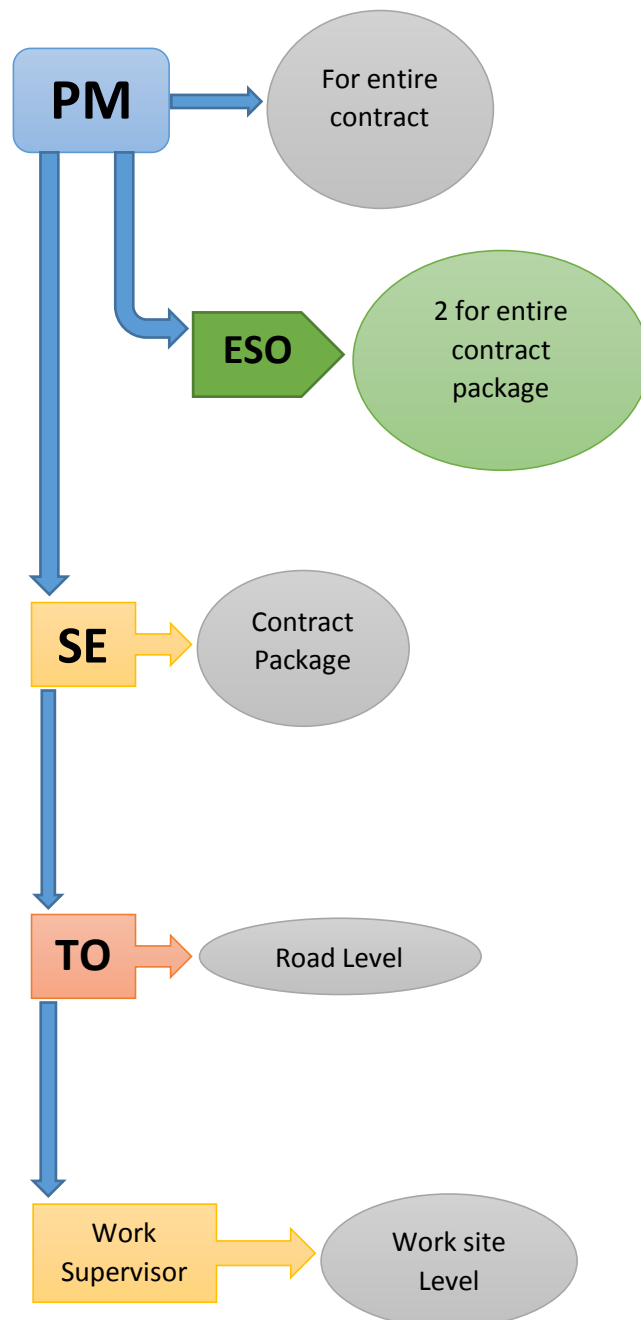


1.2.3 Contractor's Staff

According to Clause 5 - Personnel under Supplementary Information of Volume 5b of the Contract Agreement, the Contractor obliges to recruit 2 Environmental and Social Officers (ESOs) for their 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 and Contractors faced a big problem to recruit new

ESOs again and again. **Annexure I** shows the situation of this issue faced by Contractors. By the end of year 2018, most of Contractors had to recruit qualified ESOs into some extent. Even though, 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 3: Contractor's Staff (Environmental Related)



1.3 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 1202.77 km of 227 roads in NWP and NCP.

Under this program, following components are included.

1. Road improvement component will design, improve and maintain 694.30 km in NWP and 508.47 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.

2.0 Progress of civil works during the reporting period

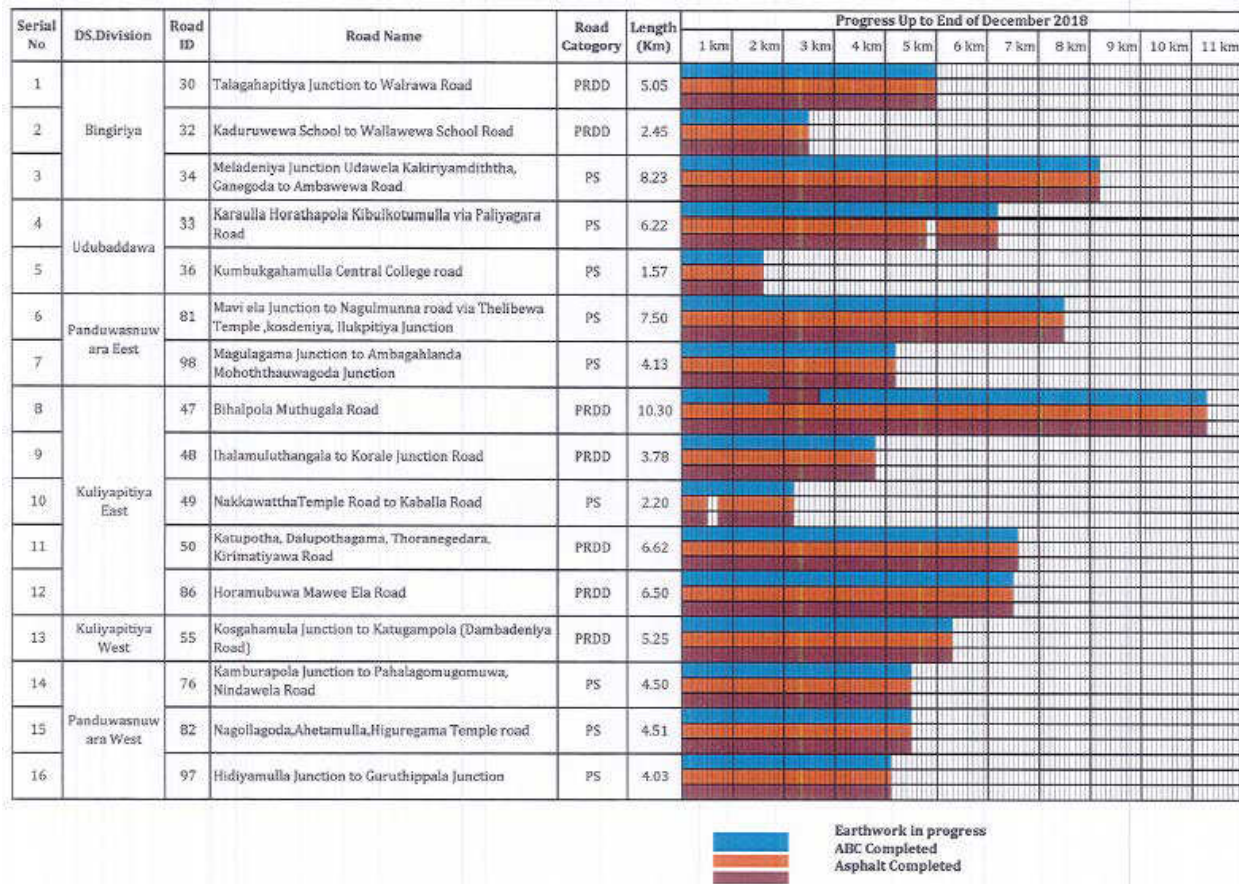
2.1 Contract KU1 – Contractor Maga Engineering PLC

The Contract Package KU1 consists of 16 roads totaling 83.29 km and the accepted contract value is LKR 2,005,790,082.72. The Contractor has provided the Engineer's facilities as per the contract with the Resident Engineer's Office located in Kurunegala and the Construction Engineer's office located at Kuliypitiya. The Contractor has established his own office and yard along with his material testing laboratory located at Bihalpola all now fully operational.

Table 5: Progress of Culvert construction/rehabilitation – KU1

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert									Head wall reconstruction Culvert									Cleaning & Repairing of Culvert			
		Nos.	Submitted	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Both Side			LHS			RHS			Both sides			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	Total Nos.	Completed	In progress	Total Nos.	Completed			
30	10	10					3	3											1	1			2	2		1	1		1	1		2	2	
32	7	7					3	3															1	1				1	1		2	2		
33	21	21		2	2		7	7					2	2									2	2							8	3		
34	36	36		2	2		12	12					1	1		5	5		1	1			13	13							2	2		
36	2	2					1	1																							1			
47	29	29		1	1		6	6		4	4					1	1		2	2											15	15		
48	12	12		1	1		1	1		1	1											1	1		1	1				7	7			
49	11	11		2	2					1	1					1	1											2	2		5	5		
50	27	27		3	3		6	6					1	1		1	1					1	1		3	3		1	1		11	11		
55	29	29					2	2		2	2					1	1					5	5								19	19		
76	29	29		1	1		14	14					2	2		1	1		1	1		2	2								8	8		
81	40	40					10	10					1	1		2	2					4	4		1	1		1	1		21	15		
82	14	14					4	4					1	1					1	1											8	8		
86	22	22		1	1		5	5											1	1											15	15		
97	18	18					4	4					1	1		1	1		1	1											11	11		
98	13	13		2	2		4	4											1	1		1	1								5			
Page Total	320	320	0	15	15	0	82	82	0	8	8	0	9	9	0	13	13	0	9	9	0	32	32	0	6	6	0	6	6	0	140	123	0	

Chart 4: Road construction activities – KU1



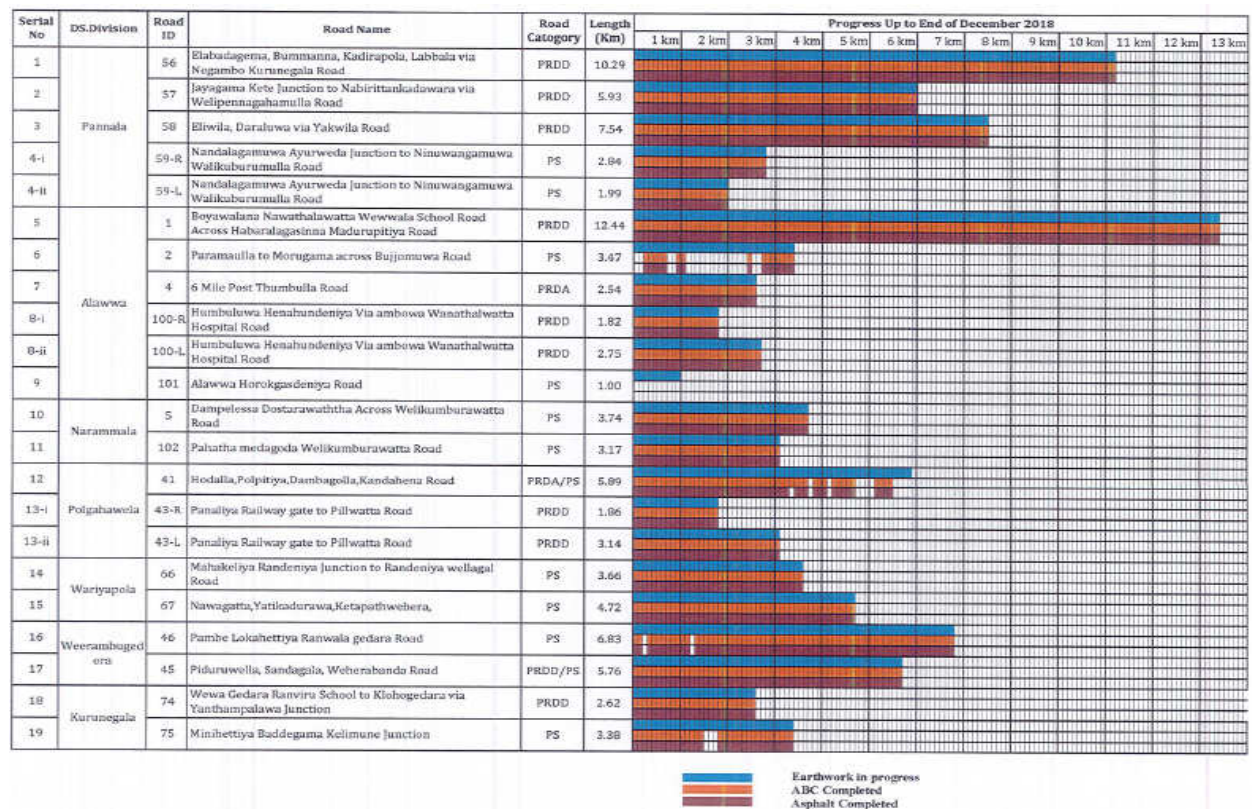
2.2 Contract KU2 - Contractor KDAW-BMG Joint Venture

The Contract Package KU2 consists of 19 roads totaling 100.45 km and the accepted contract value is LKR 2,124,166,266.00. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineers office located at Mahameruwatta near Giriulla. The Contractor has established his own office and yard along with his material testing laboratory located at Mahameruwatta all now fully operational.

Table 6: Progress of Culvert construction/rehabilitation – KU2

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	BOTH			LHS			RHS			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
1	54	48		6	6		6	6					2	2		5	5		2	2		33	13	1
2	16	14		2	2		5	3	2							1			1	1		7		1
4	11	11					4	4					1	1					2	2		4		1
5	18	14		4	4		3	3					1	1								10	3	
41	50	50					27	25	1							3	3		4	4		16		
43	35	34		1	1		10	10														24	14	
45	20	20					10	10								1	1					9	1	
46	24	23		1	1		8	8					1	1								14	12	1
46R	9	9					6															3		
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57	18	16		2	2		5	5								1	1		1	1		9	8	
58	22	22					2	2								2	2					18	2	
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66	15	15					3	3					2	2								10	3	2
67	30	28		2			3	3					3	3		2	2		3	2		17	5	
74	11	11					1	1								1	1					9	9	
75	15	15					9	9														6	6	1
100	39	39					8	8		1	1		2	2		8	8		2	2		18	2	
101	7	7					2									1						4		
102	23	21		2	2		6	6					1	1		2	2		3	3		9	9	
Page Total	462	441	0	21	19	0	124	112	3	1	1	0	17	17	0	28	26	0	20	19	0	251	109	8

Chart 5: Road Construction Activities – KU2



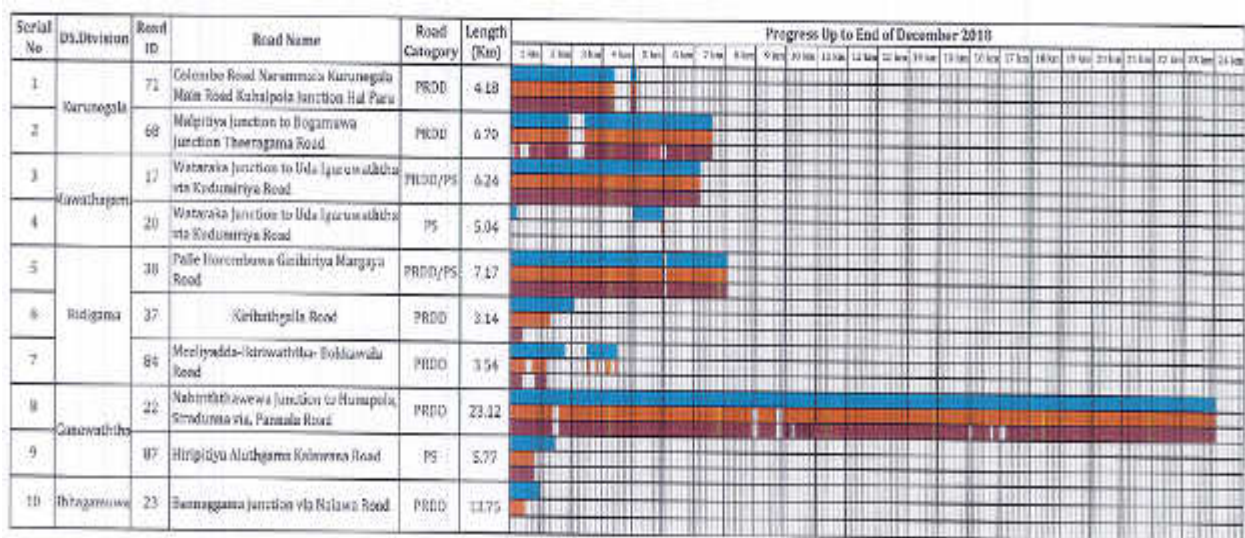
2.3 Contract KU3 – Contractor Ranken Railway Construction Co. Ltd.

The Contract Package KU3 consists of 12 roads totaling 89.88 km and the accepted contract value is LKR 1,976,721,917.95. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's office selected and almost equipped. The Contractor has established his own office, yard and main material testing laboratory near Kurunegala and these are operational and fully equipped.

Table 7: Progress of Culvert construction/rehabilitation – KU3

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		
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						22		
40	68	68		1									1									66		
68	39	39		1	1								7	5	0	5	3	0	1		0	25	5	0
71	16	16					4	4											2	2		10	6	
84	26	26					4	1	0				2	1		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

Chart 6: Road construction activities – KU3



Notes: Road ID No. 39, 40 Earth Work Construction Still Has Not Started.

Earthwork in progress
 ABC Completed
 Asphalt Completed

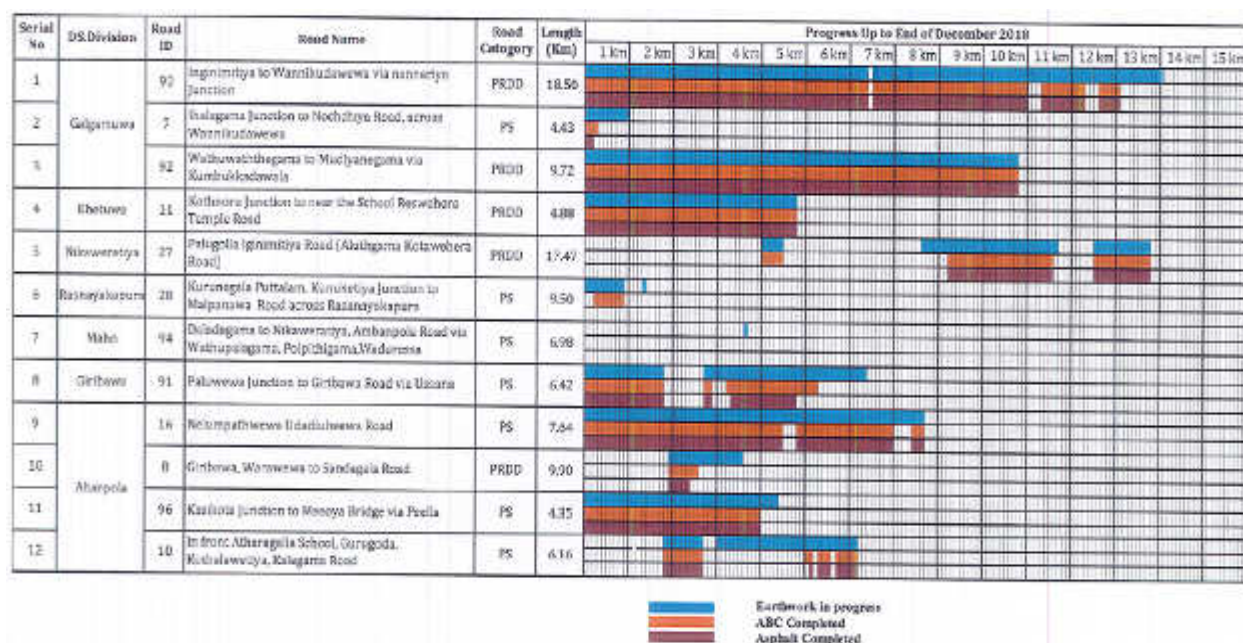
2.4 Contract KU4 – Contractor VV Karunaratne & Company

The Contract Package KU4 consists of 12 roads totaling 105.83 km and the accepted contract value is LKR 2,091,174,540.00. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's office near Ambanpola established and operational. The Contractor has established his own office with yard. His main laboratory building is complete, equipped and operational.

Table 8: Progress of Culvert construction/rehabilitation – KU4

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 Side			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
7	9	9		1			4		1	3			2		2	3			2		1	3		
8	25	25		3			2		1				1	1		3			1		1	11		
10	12	12		2	2		3	3														11		
11	22	22		3	2		3	2					1	1								12	7	
16	26	26		2	2		6	6		1	1		2	2								15	8	
27	45	45					6	1		1			1	1		3	2	1				37	2	
28	48	48					9	1	1	1			2			3			2			34		
90	44	44		5	3	1	9	6													42	4		
91	20	20		1		1	4	4								2	2		3	2		16	3	
92	41	41		1	1		10	10		5	5		1	1		2	2		5	1	2	23	5	
94	27	27		1			4						2									25		2
96	17	17		2	1	1							1	1		1	1					9	3	
Page Total	336	336	0	21	11	3	60	33	3	11	6	0	13	7	2	17	7	1	13	3	4	238	32	2

Chart 7: Road construction activities – KU4



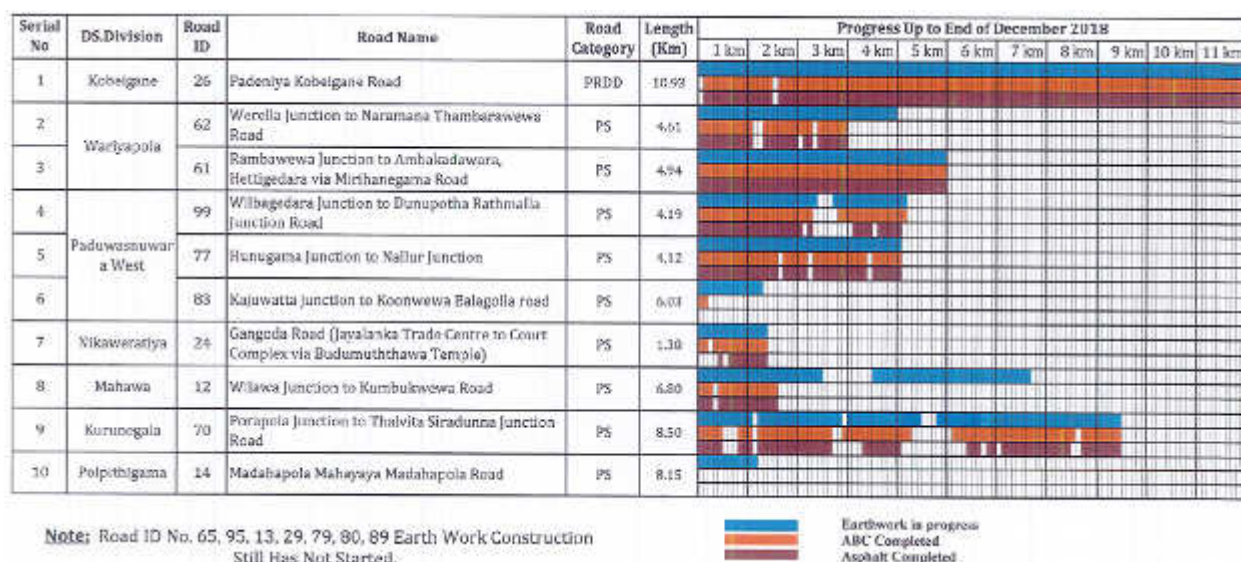
2.5 Contract KU5 – Contractor Ranken Railway Construction Co. Ltd.

The Contract Package KU5 consists of 17 roads totaling 99.85 km and the accepted contract value is LKR 1,996,560,050.43. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineers offices near Wariyapola are completed. The Contractor's office which was previously established at Wariyapola has been relocated to new premises near Padeniya. The contractor's main testing laboratory is functional. His field laboratories have been completed and are functioning as intended.

Table 9: Progress of Culvert construction/rehabilitation – KU5

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

Chart 8: Road construction activities – KU5



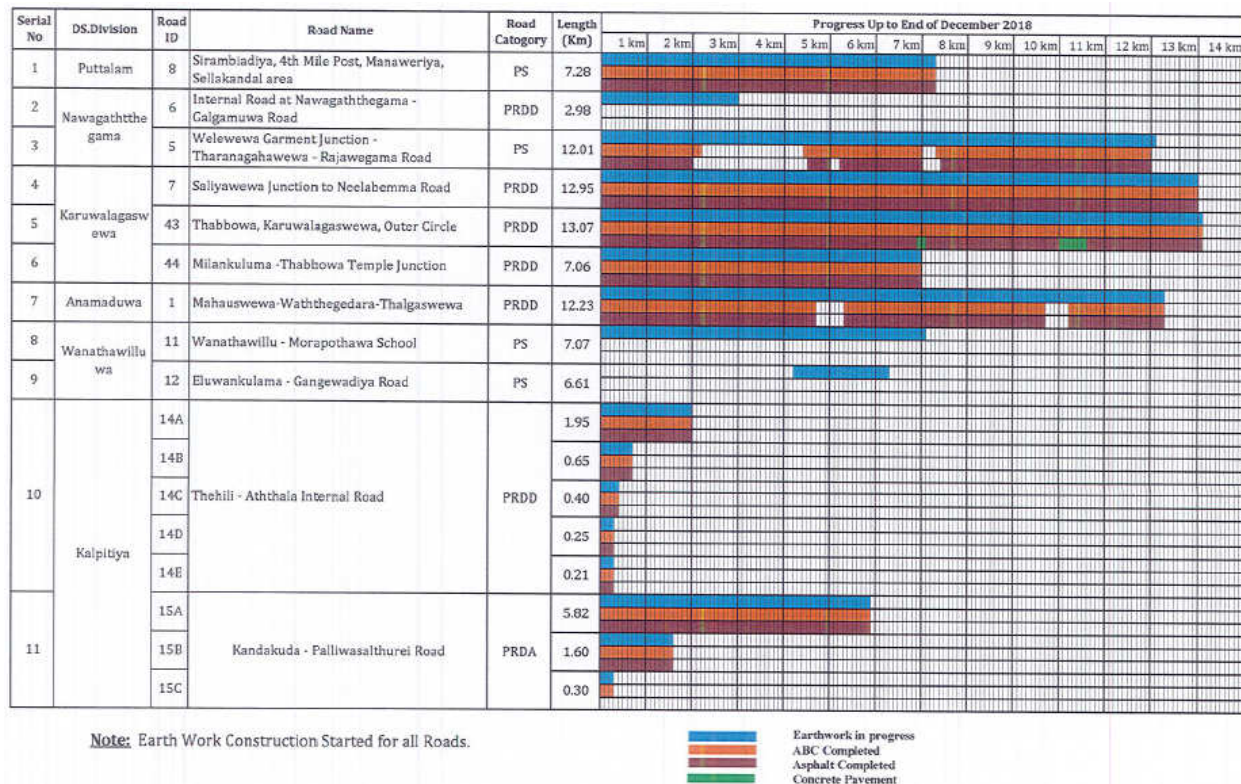
2.6 Contract PU1 – Contractor Ranken Railway Construction Co. Ltd.

The Contract Package PU1 consists of 11 roads totaling 92.50 km and the accepted contract value is LKR 1,706,320,523.61. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineers Office in Puttalam is now completed. The Contractor's offices, yard, laboratory and accommodation is also in Puttalam. Contractor's staff mobilization at site is now at a satisfactory level.

Table 10: Progress of Culvert construction/rehabilitation – PU1

Road No.	Total Culvert	Culvert Condition Report		New Culvert			Reconstruction Culvert			Redecking Culvert			Widening Culvert						Cleaning & Repairing of Culvert		
		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			
1	45	22		8	8		9	9					3	2		3	2		26		
5	34	16		3	3		3	3					5	5		5	5		10		1
6	11	7		2	2		3	3					1	1		1	1		4		
7	48	8		1	1		4	4								3	3		39		
8	13	7		2	2		3	3								2	2		6	3	
11	16	15		4	3		1	1					3	3		4	4		4		
12	14	11		4	1		1						3	3		4	4		3		
14	6	6		3	2	0	2	2													
15	11	11		1	1		3	3	0				1	1		1	1		3		
43	37	11		4	3		9	9					5	5		5	5		17	10	
44	11	11		2	1		2	2		1	1		1	1		1	1		5	5	
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Chart 9: Road construction activities – PU1



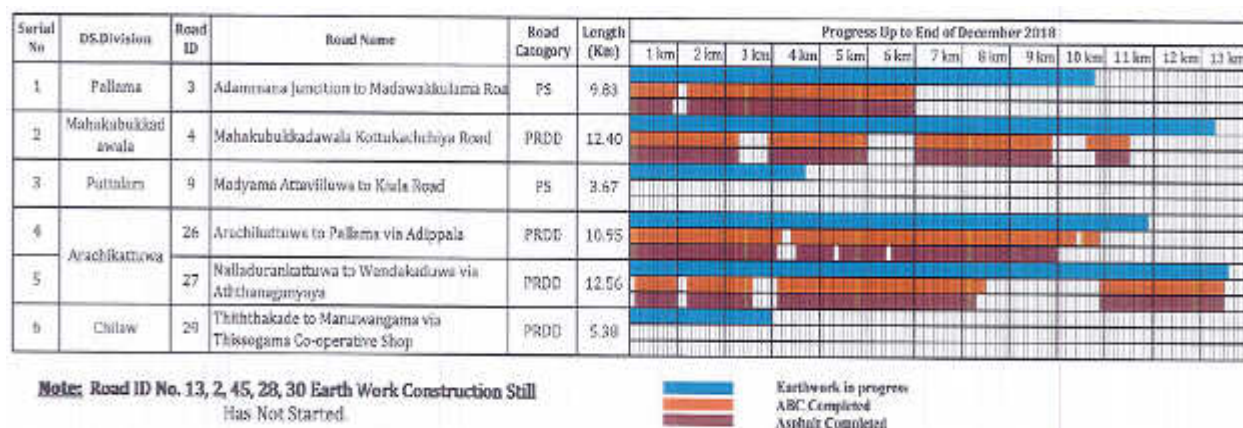
2.7 Contract PU2 – Contractor VV Karunaratne & Company

The Contract Package PU2 consists of 11 roads totaling 74.13 km and the accepted contract value is LKR 1,463,917,284.00. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's Office situated in Chilaw is completed. The standby generator has still to be supplied for CE's office. The Contractor's offices, yard and accommodation has been completed. The contractor's main laboratory is operational. The contractor's key staff mobilization at site is now acceptable and he has employed a planning engineer. The contractor has sufficient plant at site.

Table 11: Progress of Culvert construction/rehabilitation – PU2

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 Side			Total Nos.	Completed	In progress
													Total Nos.	Completed	In progress	Total Nos.	Completed	In progress	Total Nos.	Completed	In progress			
2	26	26		5			6						1						2			12		
3	43	43					15	13		1	1		4	1		1			9			11	11	
4	50	50					10	2		1						1			3			35		
9	7	7		1	1		4	2														2		
13	12	12		4			2	2					1			1			2			2		
26	30	30		2	1		7	7								1	1		1	1		15	15	
27	44	44					4	2								3	2		4	1		24	24	
28	8	8					3						1			1						3		
29	21	21		1			11	5					2			1	1		2			4		
30	5	5					3												2					
45	9	9					1									1			3			4		
Page Total	255	255	0	13	2	0	66	33	0	2	1	0	9	1	0	10	4	0	28	2	0	112	50	0

Chart 10: Road construction activities – PU2



2.8 Contract PU3 – Contractor VV Karunarathne & Company

The Contract Package PU3 consists of 15 roads totaling 48.37 km and the accepted contract value is LKR 1,210,355,904. The Consultant's Resident Engineer's Offices are established in Marawila and the Construction Engineer's Office is established at Kirimatiyana and both are completed. The Contractor's main offices, yard and accommodation completed. The contractor's main laboratory has been completed with the equipment supplied. Contractor's staff mobilization has improved.


Table 12 - Progress of Culvert construction/rehabilitation – PU3

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	-	-	-	-	2	1	-	1	-	-	9	1	-	-	-	-	-	-	-	-	-	-	-
18																															
21	20	20	-	2	-	-	8	3	2	-	-	-	1	-	1	1	-	-	10	-	-	-	-	-	-	-	-	-	1	-	-
22	8	8	-	-	-	-	3	-	1	-	-	-	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	-	-	-	-	-	-	-	-	-	-	-	-
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	10	5	1	0	0	21	8	1	21	6	2	63	10	1	0	0	0	0	0	0	2	0	0	0

Chart 11: Road construction activities – PU3

Serial No	DS.Division	Road ID	Road Name	Road Category	Length (Km)	Progress Up to End of December 2018						
						1 km	2 km	3 km	4 km	5 km	6 km	7 km
1	Madampe	31	Madampe Ihlagama Road	PS	1.69							
2		32	Suduwella Junction to Mukunuwatawana Road	PS	2.42							
3	Nattandiya	16	Megahawilla Junction to Yakkdessawa Primary School Road	PRDD	2.65							
4		17	Bandirippuwa to Maningala via Sadanangama Katuwagoda Road	PRDD	3.86							
5	Mahawewa	21	Waduraba BO Tree to Walahapitiya Cemetery via Muttibadivila Post office Road	PRDD	6.79							
6		22	Yatakalana temple to Thabbowa kotabagaha Road	PRDD	5.09							
7		24	Gurugodalla to Kuliyaipitiya Nattandiya main Road	PS	1.49							
8	Wennappuwa	33	Srigampola Church to Zinnor Junction via Aubowan Junction	PRDD	2.89							
9		34	Weralugaha road Balldi junction Bandaranayake Janapadaya to Dummaladeniya Haldaduwana Road	PRDD	4.27							
10		36	Bandirippuwa-Kirimetiya Jerad mawatha to end of Jaya Mawatha	PRDD	4.29							
11		39	Atiyawela Road (North)	PRDD	1.85							
12	Dankotuwa	40	Atiyawela Mohottimulla Road	PRDD	2.91							
13		41	Kirimatiyana Varalla Watta Road	PRDD	3.40							
14		42	Morukkuliya to Dankotuwa	PRDD	2.45							

Note: Road ID No.38 Earth Work Construction Still Has Not Started.


 Earthwork in progress
 ABC Completed
 Asphalt Completed

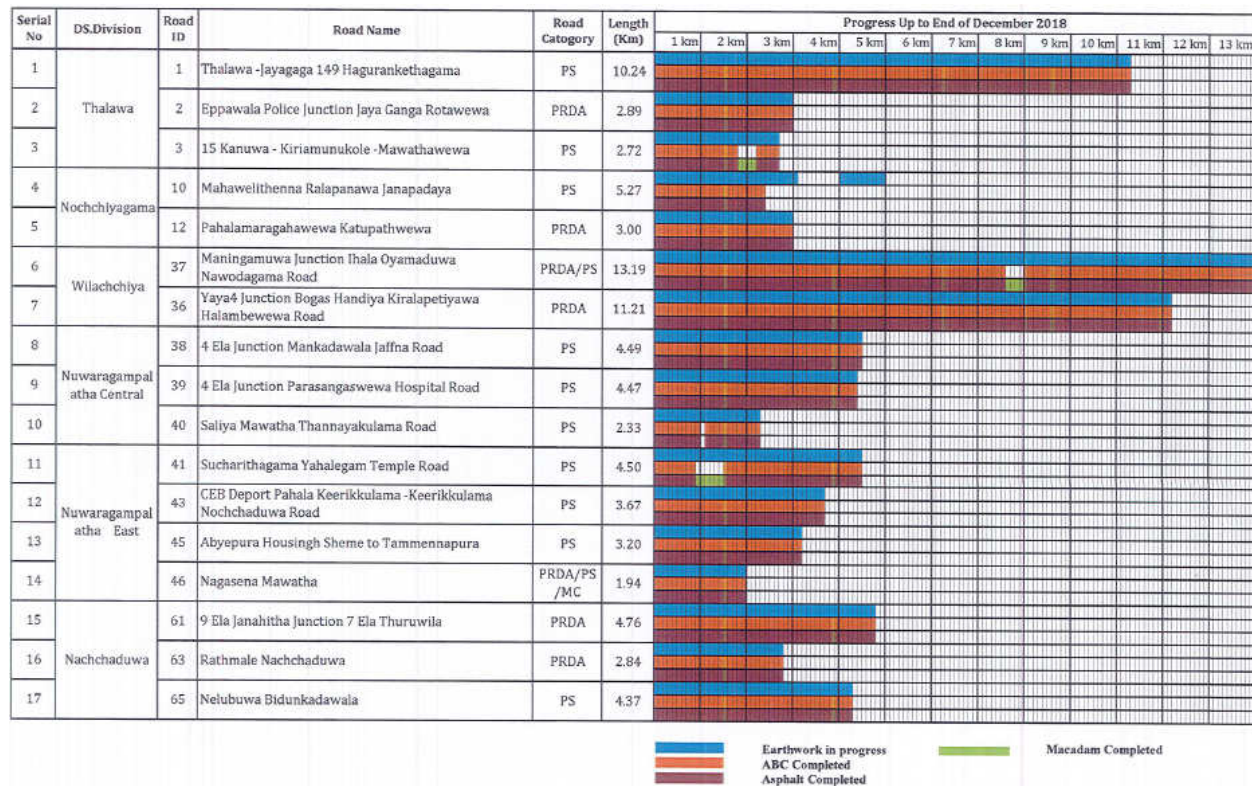
2.9 Contract AP1 – Contractor MAGA Engineering PLC

The Contract Package AP1 consists of 17 roads totaling 85.09 km and the accepted contract value is LKR 1,656,915,760.00. The Contractor has provided the Engineer's facilities as per the contract with the Resident Engineer's Office and the Construction Engineer's Offices located in Anuradhapura Town. The Contractor has established his own office and small yard along with his material testing laboratory all now fully operational.

Table 13: Progress of Culvert construction/rehabilitation – AP1

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			
1																					
2	5	5					3	3					1	1					1		
3	14	14					9	9											5		
10	9	9		3	3		2	2											3		
12	17	17					11	11					1	1		1	1		5		
36	38	38		3	3		12	12					2	2					21		
37	43	43		2	2		8	8					2	2					31	16	
38	9	9					3	2					2	2		1	1		4		
39	18	18					7	7					2	2		5	5		5	3	
40	6	6					4	4					1	1					1		
41	11	11		4	4		2	2					3	3		3	3		2	1	
43	17	17					1	1											16	12	
45	14	14		2	2		4	4					2	2		1	1		6	5	
46	8	8					2	2					1	1					5	3	
61	16	16					5	5					2	2		1	1		9	7	
63	8	8					3	3											5	3	
65	19	19		3	3		8	8					2	2		3	3		4		
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Chart 12: Road construction activities – AP1



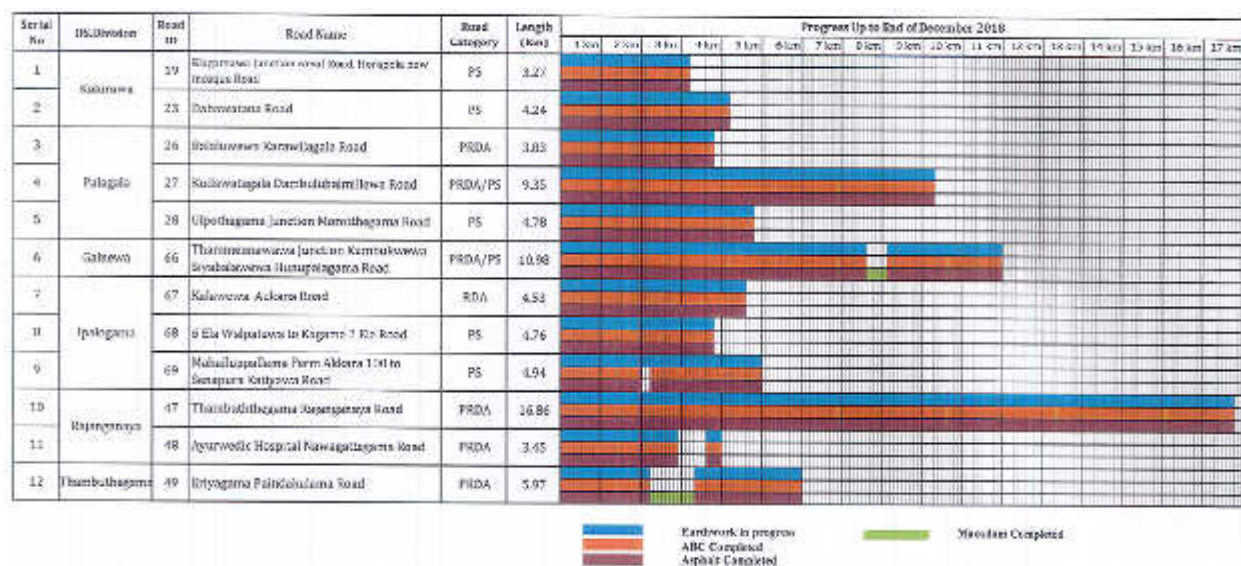
2.10 Contract AP2– Contractor Maga Engineering PLC

The Contract Package AP2 consists of 12 roads totaling 76.85 km and the accepted contract value is LKR 1,824,178,003.20. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's Office now fully equipped and operational. The Contractor has now established a permanent office and soils testing laboratory. The Contractor's Program of Works and supporting documents have been approved.

Table 14: Progress of Culvert construction/rehabilitation – AP2

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			
19	12	12					2	2											9		
23	9	9											2	2					7	7	
26	12	12					5	5											7	7	
27	60	60		2	2		23	23					7	7					29	29	
28	20	20		1	1		9	9					4	4					7	7	
47	27	27					2	2					1	1					24	5	
48	25	25					9	9					8	8					10	1	
49	18	18					5	5					3	3					11	4	
66	54	54					10	10					2	2					42	35	
67	18	18					9	9					7	7					2		
68	22	22								1			6	6					15		
69	21	21					6	6					1	1					14		
Page Total	298	298	0	3	3	0	80	80	0	1	0	0	41	41	0	0	0	0	177	95	0

Chart 13: Road construction activities – AP2



2.11 Contract AP3 – Contractor Maga Engineering PLC

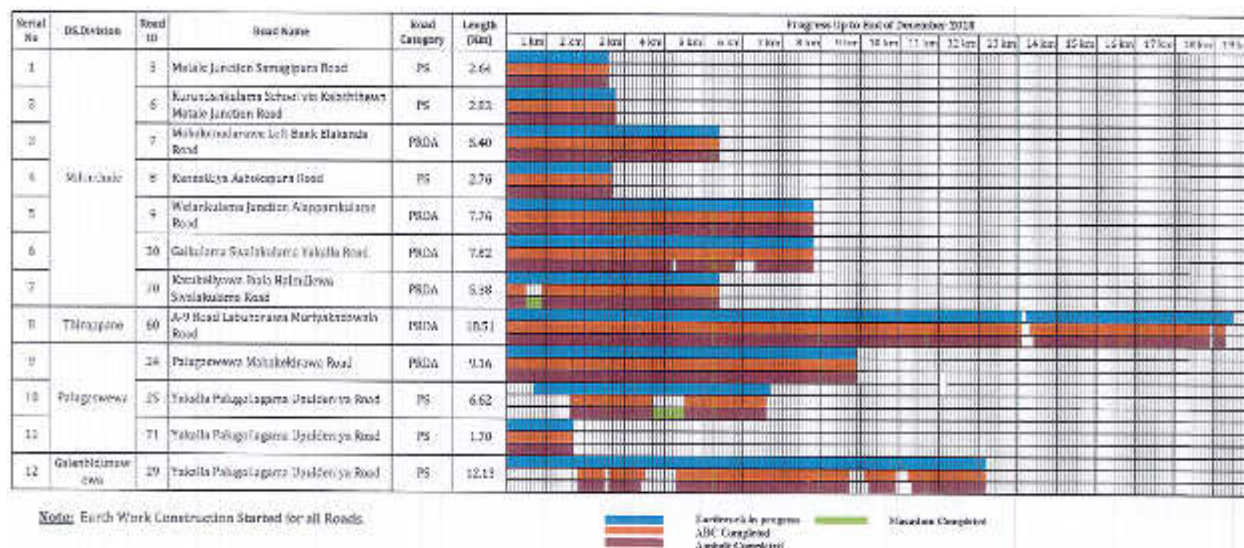
The Contract Package AP3 consists of 12 roads totaling 82.66 km and the accepted contract value is LKR 1,492,772,165.28. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's office now fully equipped and operational. The

Contractor has established a permanent site office, large yard, labour camps and staff accommodation and material testing laboratory. The contractor is now fully mobilized The Contractor's revised Program of Works and supporting documents have been approved.

Table 15: Progress of Culvert construction/rehabilitation – AP3

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			
5	11	10		1	1		6	6					1	1					3	3	
6	8	6		2	2		2	2											4	4	
7	14	14					2	2		1	1		1	1					10	10	
8	11	10		1	1		4	4											6		
9	14	13		1	1		8	8					1	1		1	1		4		
24	40	37		3	3		16	16					3	3		3	3		18	12	6
25	19	19					15	15					6	6		6	6		0		
29	36	35		3	3		15	15					1	1					19		
30	26	26		3	3		18	18					1	1					6		
60	55	53		2	2		29	29					9	9		9	9		10		2
70	23	22		1	1		11	11					8	8		8	8		3		
71	8	6		2	2		2	2											4	4	
Page Total	265	251	0	19	19		128	128		1	1	0	31	31	0	27	27	0	87	33	8

Chart 14: Road construction activities – AP3



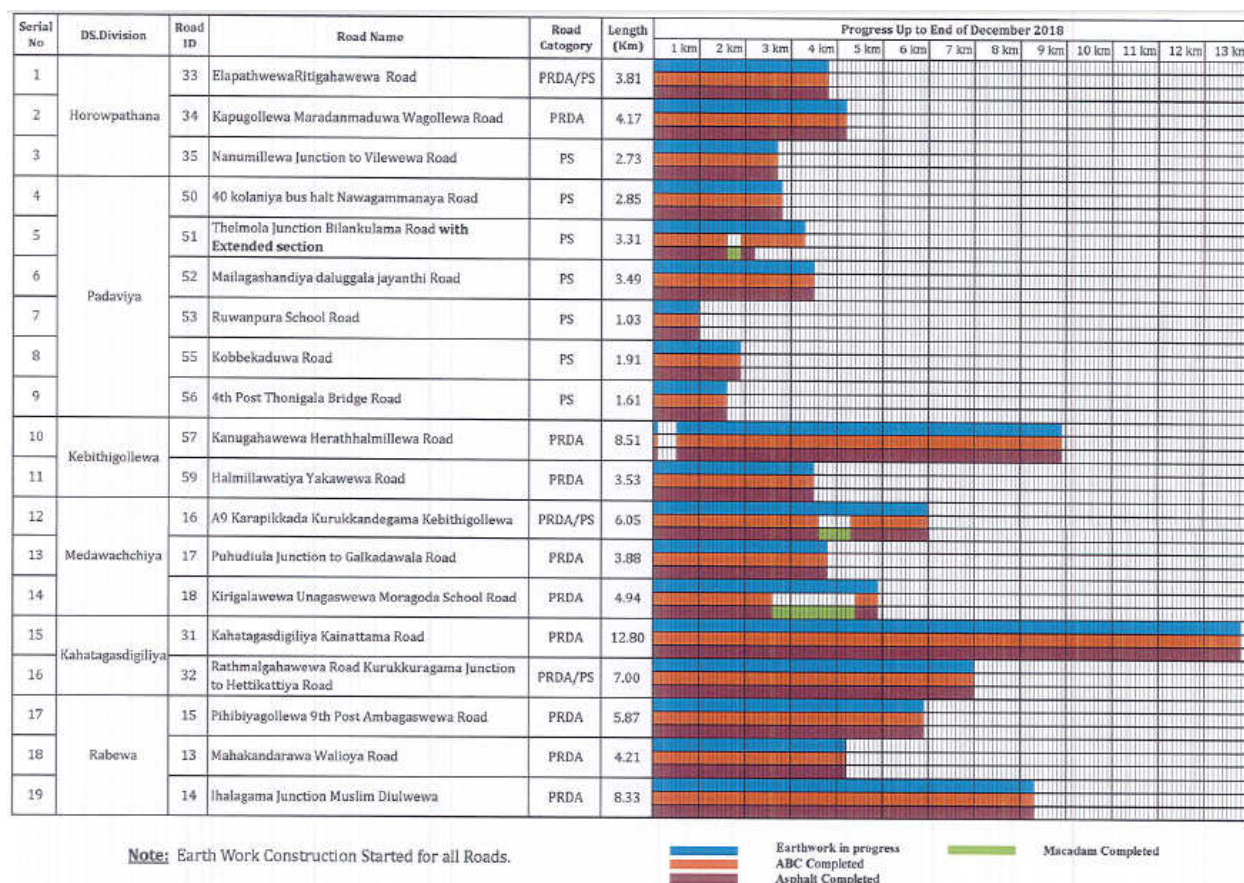
2.12 Contract AP4 – Contractor Maga Engineering PLC

The Contract Package AP4 consists of 19 roads totaling 90.20 km and the accepted contract value is LKR 1,635,133,956.00. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's office now fully equipped and operational. The Contractor has established a permanent site office, large yard, labour camps and staff accommodation and material testing laboratory. The contractor is now fully mobilized. The Contractor's Program of Works and supporting documents have been approved.

Table 16: Progress of Culvert construction/rehabilitation – AP4

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			
13	12	12					3	3					1	1		1	1		8	8	
14	27	23	1	3	3		7	7											17	17	
15	24	24					7	7					3	3		3	3		14	14	
16	23	23		1	1		18	18					4	4		4	4		1	1	
17	17	17					5	5											12	12	
18	10	10					4	4											6	6	
31	59	55	3	1	1		13	13					3	3		3	3		42	42	
32	28	26	1	1	1		5	5											22	22	
33	17	17					8	8					3	3		3	3		6	6	
34	17	17					2	2											15	15	
35	11	11					4	4					1	1		1	1		6	6	
50	9	4		5	5		4	4											0		
51	12	12					9	9					1	1		1	1		2	2	
52	10	8		2	2		6	6											2	2	
53	5	5					2	2					1	1		1	1		2	2	
55	6	6					2	2					1	1		1	1		3	3	
56	8	5		3	3		4	4											1	1	
57	35	26	9				18	18					3	3		3	3		14	14	
59	8	8					4	4											4	4	
Page Total	338	309	14	16	16	0	125	125	0	0	0	0	21	21	0	21	21	0	177	177	0

Chart 15: Road construction activities – AP4



2.13 Contract PO1 – Contractor Maga Engineering PLC

The Contract Package PO1 consists of 18 roads totaling 50.76 km and the accepted contract value is LKR 1,158,532,987.42. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's office now fully equipped and operational. The Contractor has established a permanent site office, large yard and staff accommodation and material testing laboratory. The contractor is now fully mobilized. The Contractor's Program of Works and supporting documents have been approved.

Progress of Culvert construction/rehabilitation – PO1

The construction of all the culverts has been already finished.

Road construction activities – PO1

All the construction activities have been already finished.

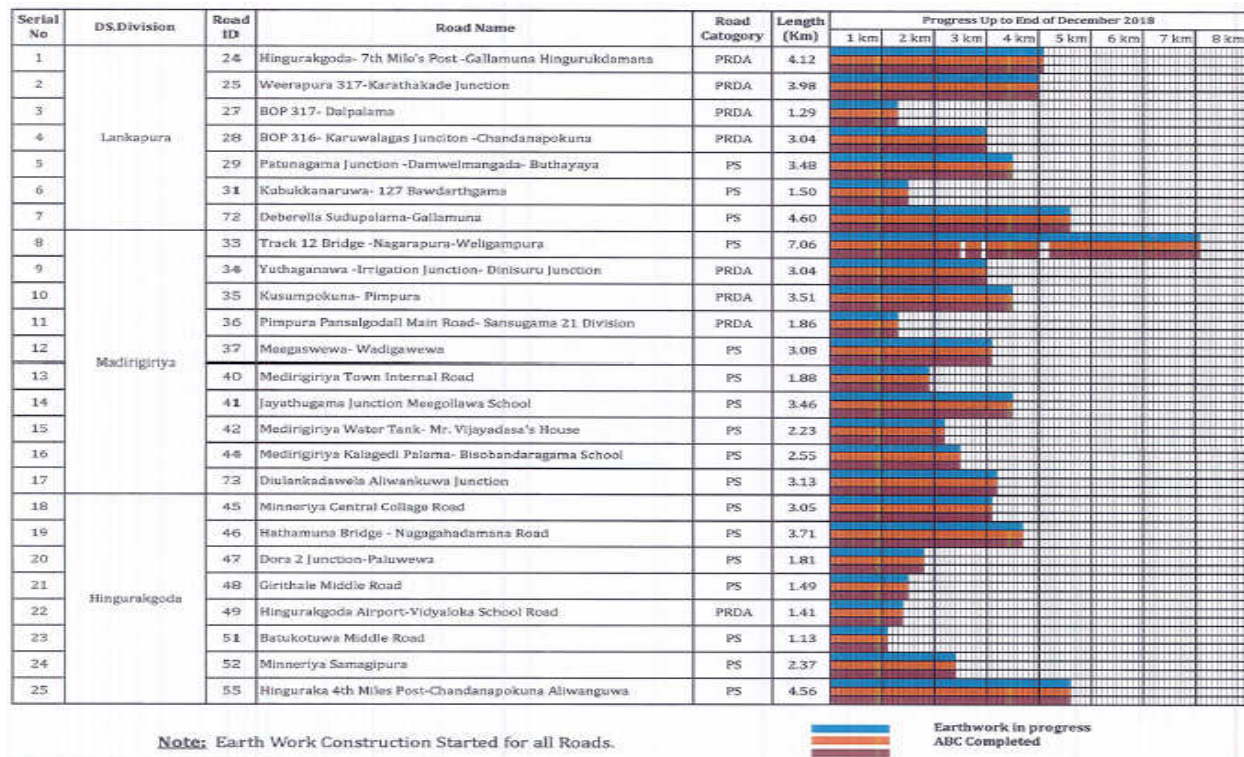
2.14 Contract PO2 – Contractor Maga Engineering PLC

The Contract Package PO2 consists of 25 roads totaling 73.36 km and the accepted contract value is LKR 1,483,692,044.52. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's Office now fully equipped and operational. The Contractor has established a permanent site office, yard and staff accommodation and material testing laboratory. The contractor is now fully mobilized The Contractor's Program of Works and supporting documents have been approved.

Table 17: Progress of Culvert construction/rehabilitation – PO2

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			
24	14	14					4	4					3	3					1	1	
25	12	12														2	2				
27	2	2																			
28	9	9					5	5											4	4	
29	11	11					4	4											5	5	
31	9	9											3	3					4	4	
33	22	22					8	8					2	2		1	1		7	7	
34	10	10					3	3								1	1				
35	11	11											2	2		1	1		2	2	
36	3	3					1	1											2	2	
37	25	25					5	5					3	3		5	5		15	15	
40	6	6		1	1		3	3					2	1		2	2				
41	9	9														2	1	1	7	5	2
42	4	4					2	2											2	2	
44	10	10					2	2					3	3		3	3		4	4	
45	13	13		1	1		7	7					2	2		1	1		2	2	
46	25	25					8	8					7	7		5	5		5	5	
47	12	12					1	1					1	1		2	2		5	5	
48	5	5					4	4											1	1	
49	6	6		1	1		4	4													
51	3	3																			
52	17	17		1	1		3	3					2	2					10	3	
55	27	27					3	3					8	8		14	14		3	3	
72	15	15					4	4					6	6					3	3	
73	17	17					6	6					6	6		3	3		4	4	
Page Total	297	297	0	4	4	0	77	77	0	0	0	0	50	49	0	42	41	1	86	77	2

Chart 16: Road construction activities – PO2



2.15 Contract PO3 – Contractor TISSA-AMSK JV

The Contract Package PO3 consists of 11 roads totaling 49.55 km and the accepted contract value is LKR 1,249,343,460.00. The Contractor has provided the Engineer's facilities as per the contract with the Construction Engineer's Office now fully equipped and operational. The Contractor has established a permanent site office, yard and staff accommodation and material testing laboratory. The contractor is now fully mobilized. The Contractor's Program of Works and supporting documents have been approved.

Progress of Culvert construction/rehabilitation – PO3

All the construction activities have been completed.

Road construction activities – PO3

All the construction activities have been completed.

Table 18: 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	PO1	MAGA Engineering PLC	02/10/2018	50.76	18	18
	PO2	MAGA Engineering PLC	23/12/2018	73.36	25	25
	PO3	Tissa – AMSK Construction	31/10/2018	49.55	11	11
	AP1	MAGA Engineering PLC	31/01/2019	85.09	17	7
	AP2	MAGA Engineering PLC	31/01/2019	76.85	12	8
	AP3	MAGA Engineering PLC	31/01/2019	82.66	12	5
	AP4	MAGA Engineering PLC	31/12/2018	90.20	19	19
NWP	KU1	MAGA Engineering PLC	31/01/2019	83.29	18	9
	KU2	KDAW-BMG JV	29/03/2019	100.45	19	5
	KU3	Ranken	23/07/2019	89.88	12	0
	KU4	VVK Construction	30/09/2019	105.83	12	0
	KU5	Ranken	30/07/2019	99.85	17	0
	PU1	Ranken	30/04/2019	92.50	11	0
	PU2	VVK Construction	30/09/2019	74.13	11	0
	PU3	VVK Construction	31/01/2019	48.37	15	0
Total				1202.77	229	107

3. 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 Sri Lanka Government. 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 2 and 3, updated FAM (updated in 2015) and EARF.

3.1. Compliance with Tranche 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 PIC2 belonged to Tranche 3 at the beginning but now PIC-2 is in Tranche 4.

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 Lanka 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.
- 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. Therefore, 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.

Clause No. 6, 6(a), 6 (b) and 6 (c) of the schedule 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 safeguard 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 and 2017 have been submitted to the Client) This report is prepared for the time period from January to December 2018;

(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 impact 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, PIC2 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 PIC2 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 51). The Foot Note No. 14 under Clause No. 51 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 62 is implemented as mentioned in the FAM. In accordance with Clause 66 and 67 (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 etc. for workers. All the Contractors except PU3 have completed the second round of HIV/AIDS awareness programs (Table 23).

While Internal Environmental Monitoring is done by PIU, PIC2 monitors Environmental component internally according to Clause 76. 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. Depending on these documents, PIC monitors Environmental activities through REs, AREs, CEs, TOs, ESSO, DSESAs and ES of PIC2. The Contractors provide periodically Monthly Progress Report on Environment. In addition to them, the Environmental Progress Review Meeting for each contract package is conducted by ES 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 Management and More than 10 years relevant experience has been mobilized on a full time basis by PIC2 from 15 March 2016 in accordance with the Attachment C-3 to FAM and Attachment C-4 to FAM (Clause 29 and 30 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 27 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.

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. 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 rural and national road width should not be widened. No road widening envisaged/observed during year 2018.
- The roads are not fallen through the Wildlife Reserves or any Strict Nature Reserve. 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 2018.
- In implementation, international agreements or conventions are not violated.
- The ESDD of RDA provided technical supports and appointed Environmental Safeguards Officers for 2 PIUs and they supported and worked with together for benefit of the project.

- Eighteen safeguards training programs except HIV/AIDS programs for PIU, PIC and Contractor's relevant staff was conducted by PIUs with the support of PIC, ESDD and CSD Specialist in 2018 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 19.
- 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 registry is used by every contractor and complaint boxes have been placed at many locations of each road.
- The activities under responsibilities mentioned in the Table 1 of VI. Institutional Arrangement are carried by PIU and PIC. ESDD and TA consultant supported as resource persons during 18 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.
- All the Contractors report their progress monthly to PIC2. In addition, Consultancy staff monitor 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, ES, ESSO and DSESAs of PIC2 assisted all contractors to prepare SSEMAPs and EMCs for each Contract Package.
- Technical advises required by Contractors were given at any time, if the Contractor requested.
- Environmental Information was included in the Monthly Report prepared by PIC2. Following tools were applied to monitor the Environmental Safeguards activities as follows.
 - Daily Site inspections are done by RE's level PIC staff.
 - Periodic Site inspections are conducted by Team Leader, ES, ESSO and DSESAs as joint inspections with PIC, PIU and Contractor's staff.
 - CSD Specialist of ADB, TA conducted Joint Site visits.
 - Monthly Environmental Progress Reports are obtained from Contractors.
 - Special Environmental Progress Review meetings are conducted periodically at Contract Package level with PIU, PIC and Contractors staff.
 - At the General Progress Review meetings conducted by Team Leader at Contract Package level, environmental activities and issues are discussed.
 - The claims of Contractors on Environmental components are certified on monthly performance based.
 - ADB missions conducted Site visits in Kurunegala district on 28th January 2018 and Kurunegala and Anuradhapura districts on 3rd & 4th October 2018.

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 which should be followed by each Contractor, Site Specific Environmental Management Action Plan (SSEMAP) should be submitted and approval of Engineer should be obtained before the commencement of construction activities. In this SSEMAP, critical locations are included by mentioning Mitigation measures. Office premises, storages, stockpile yards, disposal sites, garbage management, traffic management, safety arrangements and other environmental related phenomena are included in this SSEMAP. And also, road specific environmental issues connected with construction activities are to be included. By considering this situation, Contractors have submitted main SSEMAP with roads considered in the 1st cluster and road wise SSEMAPs before the commencement of road

construction activities. These SSEMAPs were reviewed by ES of PIC2 and some were returned base on the comments. By the end of December 2018, a total of 225 SSEMAPs were accepted. Contractors have been advised to commence the construction activities with the close supervisions of CE, ARE, or RE by not violating the Environmental Safeguards. The table No. 19 shows the Progress of submitted SSEMAPs.

Table 19: Summary of SSEMAPs submission and approvals as at end December 2018

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	
KU1	16	16	30, 32, 33, 34, 36, 47, 48, 49, 50, 55, 76, 82, 86, 97, 98, 81	No	-	30, 32, 34, 36, 76, 97, 82, 47, 48, 49, 50, 86, 55 (Total=13)
KU2	19	19	01, 02, 04, 05, 43, 45, 56, 57, 58, 59, 74, 100, 102, 101, 41, 46, 75, 67, 66	No	-	-
KU3	12	12	17, 20, 22, 23, 37, 38, 68, 71, 84, 87, 39, 40	No	-	71 (Total=01)
KU4	12	12	07, 08, 10, 11, 16, 27, 90, 91, 92, 94, 96, 28	No	-	-
KU5	17	17	12, 13, 14, 24, 26, 61, 62, 65, 70, 77, 83, 99, 95, 29, 79, 80	No	-	-
PU1	11	11	05, 06, 07, 08, 12, 43, 44, 11, 14, 15, 01	No	-	-
PU2	11	11	02, 03, 04, 09, 13, 26, 27, 28, 29, 30, 45	No	-	-
PU3	15	13	16, 17, 21, 31, 32, 34, 33, 36, 39, 40, 41, 42, 22	02	24, 38	-
AP1	17	17	01, 02, 03, 10, 12, 36, 37, 38, 39, 40, 41, 43, 45, 46, 61, 63, 65	No	-	-
AP2	12	12	19, 23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	No	-	26, 27, 28, 23, 66 (Total=05)
AP3	12	12	05, 06, 07, 08, 09, 24, 29, 30, 60, 70, 25, 71	No	-	07, 06 (Total=02)
AP4	19	19	14, 15, 16, 17, 18, 31, 32, 33, 34, 35, 51, 53, 57, 59, 52, 56, 13, 50, 55	No	-	50, 51, 52, 53, 55, 56, 57, 59, 33, 34, 35, 16, 17, 18, 31, 32, 13, 14, 15 (Total=19)
PO1	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,

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	
						11, 12, 13, 14, 18, 20, 21, 22 (Total=18)
PO2	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, 29, 31, 72, 33, 34, 35, 36, 37, 40, 41, 42, 44, 73, 45, 46, 47, 48, 49, 51, 52, 55 (Total=25)
PO3	11	11	57, 58, 62, 64, 65, 66, 68, 59, 61, 67, 71	No	-	57, 58, 59, 66, 67, 68 (Total=06)
Total	227	225		02		89

The Contractor should submit SSEMAPs for Post Construction Stage. For the post construction stage, 89 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. And also, EMC should be prepared for the Construction Stage but it depends on the length of the road. If the road length less than 3km, it requires EMC at 50% progress of Construction stage. If the length is more than 3km, it requires EMCs at 25%, 50% and 75% of Construction Stage. 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 2018, 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. The table No. 20 shows the progress of EMC submission up to end of year 2018.

Table – 20: EMC approval as at end of year 2018

Contract Package	No. of roads in the CP	Road Numbers				
		Pre - Construction stage	25%	50%	75%	Operational stage
KU - 01	16	32, 33, 36, 47, 48, 49, 50, 55, 76, 82, 86, 97	34, 48, 50, 55, 82, 86, 97	30, 32, 34, 47, 48, 49, 50, 82, 86	30, 47, 48, 82, 86	-
KU - 02	19	56, 57, 59, 74	01, 56, 57, 58	56, 58, 74	56, 58	-
KU - 03	12	17, 22, 37, 38, 68, 71, 84, 87	17, 22, 38, 71	17, 22, 38, 71	17, 38, 71	-
KU - 04	12	10, 11, 16, 90, 91, 92, 94, 96	11, 16, 92, 96	16, 92, 96	92	-
KU - 05	17	12, 24, 26, 61, 62, 65, 70, 77, 83, 99	24, 26, 61	26	26	-
PU - 01	11	5, 6, 8, 12, 43, 44	7, 8, 44	8, 43, 44	8, 44	-
PU - 02	11	2, 3, 4, 9, 26, 27, 28, 29, 45	-	3, 26, 27	-	-
PU - 03	16	16, 31, 33, 40, 42	-	31, 39, 40, 42	-	-
AP - 01	17	1, 3, 36, 37, 38, 39, 40, 41, 45, 46	-	-	-	-
AP - 02	12	23, 26, 27, 28, 47, 48, 66, 67, 69	23, 26, 27, 28, 47, 48, 49, 66, 67, 68, 69	26, 27, 47	26, 28	-
AP - 03	12	5, 6, 7, 8, 9, 24, 60, 70	7, 9	5, 6, 8, 9	-	-
AP - 04	19	14, 15, 16, 17, 18, 31, 32, 33, 34, 35	14, 15, 31, 32, 33, 34	32, 33, 35	33, 35	-
PO - 01	18	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18,	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 18,	11	-	-

Contract Package	No. of roads in the CP	Road Numbers				
		Pre - Construction stage	25%	50%	75%	Operational stage
		21, 22	21, 22			
PO - 02	26	24, 25, 27, 28, 31, 33, 34, 35, 36, 37, 40, 41, 42, 44, 45, 46, 47, 48, 49, 52, 55	24, 25, 28, 72	25, 27, 34, 36, 37, 40, 45, 47, 48, 49, 51	-	-
PO - 03	11	57, 58, 62, 64, 65, 66, 68	57, 62	65	-	-
Total Roads	229	144	67	53	18	-

4.3 Implementation of GRM

Clause No.3 of Section 7, Terms of Reference in RFP-PIC2 noted that 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. And also 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 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 level and 240 GN level GRCs out of 239 were formed at the end of 2018 as per the table 21 below.

Table 21: Progress of GRC formation by 31st December 2018

Package	No. of DS level GRCs to be formed	Already formed as end of December 2018	No. of GN level GRCs on each road to be formed	Already formed as at end of December 2018
Package: KU-01	06	06	20	20
Package: KU-02	08	08	21	22
Package: KU-03	06	06	16	16
Package: KU-04	08	08	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	85	85	239	240

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 PIC2, public complaints, requests and suggestions were considered at the Design and Implementation stages to rehabilitate roads for the maximum benefit of 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 Contractors' staff. All the complaints are forwarded to the Contractors to register them in their Complaint, Suggestions and Requests Registry. By the end of year 2017, 2071 complaints/requests/suggestions had been received. Out of them, actions were taken for 1932. Pending complaints/requests/suggestions were 11 and rejected due to reasonable matters were 128 (These figures were included into the Annual Environmental Compliance Monitoring Report of year 2017 and excluded in year 2018. The Contract Package wise grievances, requests and suggestions solved or being solved are summarized in the table 22 of "Package wise Complaints/Requests/Suggestions during the year 2018". 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 22: Package wise Complaints/Requests/Suggestions during the year 2018

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	Pending	No. of rejected due to reasonable matters
KU-1	431	312	07	112
KU-2	691	496	40	155
KU-3	306	287	08	11
KU-4	479	422	30	27
KU-5	233	208	21	04
PU-1	122	104	14	04
PU-2	235	212	16	07
PU-3	142	124	18	00
AP-1	393	259	119	15
AP-2	196	171	08	17
AP-3	218	204	00	14
AP-4	327	287	00	40
PO-1	160	151	00	09
PO-2	187	169	00	18
PO-3	119	107	00	12
Total	4,239	3,513	281	445

All the contractors are bound to erect complaints/suggestions/requests boxes at public places. And also they should demonstrate a Public Notice of contact numbers for the convenience of public to complain or get some information on road related matters.

The complaints, suggestions or requests should be registered by the Contractor should be forwarded to the RE, 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 go to the court. Fortunately, no any issue appeared which cannot be solved in this process up to now.

4.4 Licenses

The Contractors are bound to obtain licenses/permits/consents from many authorities such as CEA, GS&MB, PS etc. These licenses are checked by RE and other PIC staff where constructions activities are functioned. Specially, borrow pits, quarry, crusher and asphalt plant are significant places which licenses are required. The list of licenses obtained for these major items are mentioned **Annexure IV**. In addition, stock pile yards, disposal yards, other yards etc. are required permission or licenses. In this iRoad project, there are no large size disposal sites due to less quantity of debris. However, the licenses of PS and consent of DS are obtained by the Contractor. On the other hand, the CE and RE of Consultant and PE of PIU recommend these licenses.

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. The second phase focused on community was commenced in 2018 and 13 workshops have been conducted out of 15. The rest of 2 programs have been plan to conduct in year 2019. During 2018, 13 Workshops of 15 Contract Packages have been conducted for 818 people as per the following table 23. This is a required one of the program. The SGRS of PIC2 actively involved in this program to achieve the objectives.

Table 23: HIV/AIDS Awareness programs conducted during 2018

Package	Date	Venue	Participants		
			Male	Female	Total
KU-03	06.02.2018	Asliya Hotel, Pilassa.	46	32	78
PO-03	15.02.2018	Prathibha Reception Hall, Manampitiya.	58	39	97
PU-02	20.02.2018	“Sudampaya” Conference Hall, Puttalam road, Anamaduwa.	74	12	86
PU-01	20.03.2018	Rajapaksha Hotel, Anamaduwa Road, Nawagattegama.	88	83	171
PO-02	14.05.2018	Hotel Golden Flower, No. 54, Airport Road, Hingurakgoda.	34	46	80
KU-02	06.07.2018	Suvilka Grand Hotel, Narammala.	72	25	97
PO-01	06.07.2018	Hotel Senaro, Jayanthipura, Polonnaruwa.	49	21	70
AP-04	20.07.2018	DS Office, Kebithigollawe.	129	72	201
KU-05	20.07.2018	Hotel Dundubhi, Werella, Padeniya, Wariyapola.	63	67	130
KU-01	26.07.2018	Town Hall, Kuliyapitiya.	32	11	43
AP-01	15.08.2018	Saara Bhoomi Resort, Anuradhapura.	84	55	139
KU-04	22.09.2018	Hotel Samara Heritage – Galgamuwa.	52	17	69
AP-02	28.09.2018	Haven Garden Hotel, Eppawala.	37	28	65
Total			818	508	1326
Gender wise (%)			61.7	38.3	100

The Contractors organized these programs and used the resource of Ministry of Health Services. The venues selected for the programs are appropriated. Before the commencement of multimedia presentations, Health Clinical Program was conducted by obtaining blood samples from participants at each program. In addition to them, education of Non Communicable Diseases (NCD) such as kidney failure, tobacco alcohol prevention and healthy family life was included into the program.

The other important thing of this program is that many kind of important posters on good habits are demonstrated during the day of program. Drug prevention, information for good food habits, clinical venues of STD treatments, steps to be followed when symptoms of diseases are

appeared, preventive measures of spread of HIV/AIDS etc. are exhibited on some posters. Some photos of programs are shown below.



Picture: No. 01- HIV/AIDS program – AP4



Picture: No. 02- HIV/AIDS program – AP4



Picture: No. 03-Presentation - Venereologist - AP4



Picture: No. 04-Participants at a HIV/AIDS program – AP4



Picture: No. 05-Presentation on HIV/AIDS – KU5



Picture: No. 06-Presentation on HIV/AIDS – KU1



Picture: No. 07-Presentation on HIV/AIDS – KU4

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

The ES, ESSO of TL's office and CE, DSESA, ARE and RE of RE's offices monitor the Environmental Safeguards activities of all the CPs during all working days while they are engaging in civil works. But ES, ESSO/PIC and DSESA monitor CPs especially on Environmental Safeguards. As well, the ESO and ESA of PIU monitor environmental activities of NWP and NCP. The site visits conducted are shown in the following tables.

Table 24: Site visits conducted jointly with PIC, PIU and Contractor

Date	Site	Participants	Remarks
10.01.2018	Site Office/PU1	ESSO and ESOs	Described the details of the SSEMAP and EMCs formats.
12.01.2018	ID7 of PU1 & ID4 of PU2	PD/NWP, IE, RE, ES, PE, CE, DE	Observed tree removal of ID7 and dust emission of ID4
15.01.2018	RD ID 68/KU3	ES, CE, ESO & ESSO	Observed stock pile yards and the road situation.
16.01.2018	RD ID 47/KU1	ESSO	Observed the road situation.
16.01.2018	ID5 of PU1	ES, SO, SA, EO, EA	Observed land donation process of ID5
19.01.2018	AP4 & ID 57	ES, CE, ESO, PM, DPM	Tree planting & environmental issues observation
24.01.2018	ID 97/KU1	PD, CSD SG Specialist, PE, CE, ES, ESSO	Observed cracks of cooperative building.
01.02.2018	ID57/AP4	PD, RE, ARE, ES, ESSO, PM	Observation of environment issues due to new by pass.
07.02.2018	KU1 & KU2	TL, PD, RE, PM, ARE, CEs, PEs, ES, SGRS, ESSO/PIC, ESSOs/KU1 &	Observed Environmental issues at constructions

Date	Site	Participants	Remarks
		KU2	
14.02.2018	ID100/KU2	ES, EO	Observed environmental issues of ID100.
12.03.2018	ID43/AP1	ES, PM, PE, CE	GRC meeting
13.03.2018	ID29/PU2	ES, CE, PM, ESO	Observed land donation process of ID29.
15.03.2018	PD/NWP office	ES, PD, CSD SG Specialist, RE, ESO, EA, SSO, SA	Discussed environmental issues of ID31/AP4
16.03.2018	ID71/KU3	ES, ESO	Observed environmental issues
24.03.2018	RE/KU office	PD, ES, RE, SGRS, 5PMs, AREs, CE	Discussed on environmental issues of all CPs
24.04.2018	Kalpitiya	PD, MPs, ES, SGRS, RE, ARE, CE, PE	Special meeting on iRoad program with politicians.
25.04.2018	Mahawewa	PD, MPs, ES, SGRS, RE, ARE, CE, PE	Special meeting on iRoad program with politicians.
02.05.2018	RD ID 12/PU1	PD/NWP, ES, RE, PE, CE, PM, SE, ESO/RDA, SSO, ESA, ESOs, ESSO & DSESA	Observed the environmental issue - Animal crossing.
03.05.2018	Anuradhapura	RE, ES, ESOs	Discussion with ESOs
04.05.2018	ID5/PU1 & ID90/KU4	ES, ESO	Observed the site
23.05.2018	KU2	ES, ESSO & ESOs	Observed Environmental issues.
24.05.2018	AP4	ES, ESO & ESA/RDA, ESSO, DSESA & ESOs	Observed Environmental issues.
05.06.2018	ID14/KU5	PD, ES, ARE, ESSO, DSESA, PM, EO, PE	Observed construction activities at forest area of ID14
06.06.2018	KU1	ES, ESO, ESSO	D49, 48, 55, 33, 36, 30, 32, 34 & 82 were observed
08.06.2018	AP - Quarries	TL, PM/AP4, RE, ARE, CE, ES, ESO & ESA/RDA, ESO	Observed some quarries suggested by CR to obtain materials.
12.06.2018	RD ID 62/KU5	ESSO, DSESA & ESO	Observed environmental issues after heavy rain,
13.06.2018	RD ID 22/KU3	ESSO, DSESA & ESO	Observed environmental issues after heavy rain.
18.06.2018	RD IDs 17, 37, 40 & 84/KU3	ES, ESSO, DSESA & ESO	Observed environmental issues
19.06.2018	RD ID 22/KU3	ES, ESSO, DSESA & ESO	Observed environmental issues
03.07.2018	RD IDs 33, 35 & 34/AP4	ES, ESSO, DSESA, ESO & ESA/RDA and ESO	Observed environmental issues and discussed how to prepare the road for handing over.
04.07.2018	ID1/PU1	ES, ESO	Observed environmental issues
05.07.2018	PO1	ES, ESSO, PE, ESO	Observed ID1, 4, 7, 8, 6, 2, 5, 3,

Date	Site	Participants	Remarks
			10, 9, 14, 11, 18, 20, 12, & 22
05.07.2018	RD IDs 04, 08, 07, 06, 02, 05, 03, 10, 09, 01, 14, 11, 18, 20, 12, 13, 22 & 21/ PO1	ES, ESSO, DSESA, ESO & ESA/RDA and ESO	Observed environmental issues and discussed how to prepare the road for handing over.
10.07.2018	AP3	ES, PM, ESO, CE	Observed ID6, 7 & 35
11.07.2018	ID1 & 47/KU2	ES, ESSO, ESO	Observed environmental issues
12.07.2018	RD IDs 45 & 52/PO2 and RD IDs 66 & 71/PO3	TL, PD/NCP, RE, ARE, SGRS, RRDE, PM, DPM, SE, CEs, PEs, ESSO, DSESA, ESO & ESA/RDA and ESO	Observed construction (Cracks) and Environmental issues.
13.07.2018	RD IDs 01, 09 & 10/ PO1	TL, PD/NCP, SGRS, RRDE, PM, DPM, SE, CEs, PEs, ESSO, DSESA, ESO & ESA/RDA and ESO	Observed construction (Causeway) and environmental issues.
17.07.2018	ID47, 82/KU1	ES, ESO	Observed environmental issues
18.07.2018	PU1	ES, ESO	Observed ID1, ID5, ID44, ID43
19.07.2019	PO	ARE, ES, ESOs, DSESA, CSD SG Specialist	Discussion and site visit on environmental & social
26.07.2018	RD IDs 56, 58 & 102/KU1 & RD IDs 48, 49 & 56/ /KU2	ES, CE, ESSO, DSESA and ESOs	Observed environmental issues and discussed how to prepare the road for handing over.
30.07.2018	RD ID 01/PU1	ES, CE, ESO & ESA/RDA ESSO, DSESA and ESO	Observed environmental issue (Water Drainage - Culvert)
31.07.2018	KU3	ES, ESSO, EO, EA, ESO	Tree planting program, Boyagane
07.08.2018	KU2	ES, ESOs, PM	Tree planting program, Meththaramaya, ID102
10.08.2018	PU1	ES, CE, ESO	Observed ID15, 11, 43, 44. 05 & 1.
16.08.2018	PO2	ES, ESSO, ESO, DSESA	Observed ID45, 47, 73, 44, 40, 42, 41, 37
22.08.2018	PO2	ES, ESSO, ESO, DSESA	Observed ID46, 48, 52, 34, 35, 51, 36, 29, 27, 72, 24 & 55
24.08.2018	KU4	ES, ESSO, DSESA, ESO	Observed ID10, 92 & 11
24.08.2018	RD IDs 10, 92 & 11/KU4	ES, ESSO, DSESA and ESO	Observed environmental issues and construction issues.
28.08.2018	42, 39, 40, 41, 36, 34, 33, 16, 17, 24, 22, 21, 32 & 31/PU3	ESSO, DSESA and ESO	Roads observation and observed current environmental issues.
30.08.2018	28, 25, 31 & 49/PO2	ES, ESSO, DSESA and ESO	Observed current environmental issues.
03.09.2018	ID7/PU1 & ID27/KU4	ES, ESSO	Observed current environmental

Date	Site	Participants	Remarks
			issues.
13.09.2018	AP	ES, DSESA, ESO, ARE	Observed ID45 & 2
11.09.2018	RD ID 74, 75, 66 & 67/KU2, RD ID 99/KU5 and RD IDs 81, 34, 30 & 32/KU1	ESSO and DSESA	Observed current environmental issues
17.09.2018	GRC at ID86/KU1	CSD SG Specialist, PD, ES, RE, ARE, SGRS, PE, SE, EO, EA	Discussed issues of Ms. Kumari Gunawardena on drainage construction.
18.09.2018	RD ID 01/PO1	TL, PD/NCP, SGRS, RRDE, PM, DPM, SE,CEs, PEs, ESSO, DSESA, ESO & ESA/RDA and ESO	Observed construction (Cracks and erosion), handing over and environmental issues.
20.09.2018	RD ID 41/KU2	TL, PD/NWP, RRDE,RE, ARE, PM, SE,CE, PE, ESSO, DSESA, ESO	Observed environmental issues.
22.09.2018	RD IDs 102, 05 & 41/KU2	ESSO, DSESA and ESOs	Observed environmental and social issues.
25.09.2018	PU	ES, ESO	Observed ID5, 44, 43 & 12..
29.09.2018	RD IDs 27, 28 & 26/AP2, RD ID 61/AP1 and RD IDs 07 & 06/AP3	ESSO, DSESA and ESOs	Observed environmental and social issues.
01.10.2018	RD ID 86/KU1 and RD ID 41/KU2	ESSO and DSESA	Observed environmental issues and discussed the villager's house drain issue due to construction activity.
10.10.2018	RD IDs 16 & 91/KU4	ES, ESSO, DSESA and ESO	Observed environmental issues.
12.10.2018	RD IDs 14 & 15/PU1	TL, PD/NWP,RE, ARE, PM, SE,CE, PE, ESO & ESA/RDA, ESSO, DSESA	Observed environmental issues.
15.10.2018	RD ID 86/KU1	ESSO	Discussed with the Villager about her house-drain issue.
29.10.2018	ID28/KU4	ES, ESO	Observed environmental issues.
30.10.2018	RD IDs 64, 62, 66, 71, 67, 61, 59 & 58/PO3	ES, ESSO, DSESA and ESO	Observed the roads and discussed the remaining environmental issues before handing over.
01.11.2018	ID8/PU1	ES, ESO	Observed environmental issues.
06.11.2018	RD ID 22/KU3	ES, ESSO and DSESA	Observed safety issues (Road shoulders erosion due to rain)
14.11.2018	RD IDs 75 & 66/KU2, RD ID 27/KU4 and RD ID 26/KU5	ES, ESSO, DSESA and ESOs	Observed safety issues (Water logging and erosion due to heavy rain)

Date	Site	Participants	Remarks
23.11.2018	PU1	ES, ESSO	Observed ID1, 6 & 5
28.11.2018	RD ID 71/AP3 and RD IDs 57 & 59	ES, ESSO, DSESA and ESOs	Observed side drain and water logging issues. And also the current condition of planted Trees.
03.12.2018	ID49/KU2	ES, RE, PM	Observed the complaint made by Mr. Prabhath Aravinda at ID 49 on dust.

Some pictures of site inspections conducted in Kurunegala district



Picture: No. 08- Crack observation/ID97/ KU/1 – 24.01.2018



Picture: No. 09-Cracks observed at 97/KU1 – 24.01.2018



Picture: No. 10- Issues ID 22/KU3 – 06.11.2018



Picture: No. 11-Site observation ID 100/KU2 – 14.02.2018



Picture: No. 12-ID75/KU2 – 14.11.2018

Some pictures of site inspections conducted in Puttalam district



Picture: No. 13-Site inspection of RD ID 12/PU1
12.05.2018



Picture: No. 14-Site inspection of RD ID 12/PU1
12.05.2018



Picture: No. 15-ID 21/PU3 - 05.09.2018



Picture: No. 16- 21/PU3 – 05.09.2018

Some Pictures of Site inspections conducted in Anuradhapura district



Picture: No. 17-AP4 – 08.06.2018



Picture: No. 18-ID 67/AP1 – 12.03.2018



Picture: No. 19- ID21-AP4 – 08.06.2018



Picture: No. 20-ID71 AP3 – 28.11.2018



Picture:N0. 21 - ID7/AP3 – 10.07.2018



Picture: No. 22 - ID7/AP3 – 03.07.2018



Picture: No. 23 - ID57 AP4 – 01.02.2018



Picture: No. 24 - ID57 AP4 – 10.07.2018

Some images of site inspections conducted in Polonnaruwa district



Picture: No. 25- ID 1/PO1 – 18.09.2018



Picture: No. 26- ID 1/PO1 – 18.09.2018

Table 25: Site visits conducted jointly with PIC, PIU and CSD/ESSD

Date	Site	Participants	Remarks
24.01.2018	RD IDs 47, 48 & 49/KU1	CSD/SG TA Specialist, PD/NWP, ES, RE/KU, PM, DPM, ESO/RDA, ESA/RDA, SSO, CE, PE, ESOs, ESSO	Observed Environmental and Social issues.
01.02.2018	RD ID 57/AP4	CSD/SG TA Specialist, PD/NCP, ES, RE/AP, PM, DPM, SE, CE, PE, ESOs, ESSO	Observed the Environmental issue.
17.02.2018	RD ID 86/ KU1	CSD/SG Specialist, DS, PD/NWP, ES, RE/AP, SGRS, PM, DPM, SE, CE, PE, ESO & ESA/RDA, ESOs, ESSO and DSESA	GRC meeting for the Water Drainage issue and discussion.
19.07.2018	PO	CSD/SG Specialist, ES, ARE, SGRS, SE, CE, PE, ESO	Conducted a discussion on environmental and social activities regarding the taking over of roads.

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.



Picture: No. 27-RD CSD SG Specialist - Tree Planting AP4 – 19.01.2018



Picture: No.28 - Site observation RD ID57/AP4– 19.01.2018



Picture: No.29 - Site observation ID97/KU1 –
24.01.2018



Picture: No.30 - Site observation RD ID57/AP4–
19.01.2018



Picture: No.31 - ID86/KU1 - 13.07.2018

Very often, Mr. Saranga Gajasinghe, the CSD SG Specialist participated in the Site visits as mentioned above table and involved in mini workshops of Environmental and Social Safeguards conducted for PIU and PIC2 staff.

Site visits conducted by ADB Missions

The ADB Mission visited PIC2 for 3 days in two times during the year 2018. The first Mission came in January 2018 visited Kurunegala and second mission visited in October 2018 to Kurunegala and Anuradhapura districts.

Table 26: Site visits conducted by ADB Missions

Date	Site	Participants	Remarks
28.01.2018	RD ID 47 & 49 /KU 01	ADB Mission members, PD/NWP, TL, ES, SGRS, RE, ARE, CE, RRDE, PE, PM, DPM, ESOs, ESSO, ES, ESA	Observed road constructions, Environmental issues, and Social issues and participated in a community meeting of Road ID 47 of KU1.
03.10.2018	TL's Office – Kurunegala. RD ID 41, 102 & 05 /KU 02 and RD IDs 86, 47 & 49 /KU 01	ADB Mission members, TL, RE/TL's Office, RRDE, C & CI Sp, ES, SGRS, PMs, PD/NWP, RE/KU, AREs, ESOs, PEs, ESSO, EO, ESA & DSESA/KU	A Meeting was held at TL's Office and discussed all the financial issues, construction issues. The Mission highly appreciated the progress of PIC2 by emphasizing the NCP. An site observation was conducted to see the road construction, Environment and Social activities.
04.10.2018	RD ID 46/AP1, RD IDs 26, 27 & 28/AP2, RD IDs 06 & 07/AP3 and RD ID 33/AP4	ADB Mission members, TL, RE/TL's Office, RRDE, C & CI Sp, ES, SGRS, PMs, PD/NCP, RE/AP, AREs, ESOs, PEs, ESSO, EO, ESA, SO, SA & DSESA/AP	Observed the road construction, Environment and the Social issues.



Picture: No.32 - Mission arrived to - KU1 - 24.01.2018



Picture: No.33 - Mission explained objectives - KU1 - 24.01.2018



Picture: No.34 - CSD SA Specialist explains the project - KU1 - 24.01.2018



Picture: No.35 - Mission treated by community - KU1 - 24.01.2018



Picture: No.36 - Mission discuss the project progress - KU1 - 24.01.2018



Picture: No.37 - Mission observed the project activities - KU1 - 24.01.2018



Picture: No.38 - Mission explained their objectives at a community meeting - KU1 - 24.01.2018



Picture: No.39 - Mission at a community meeting - KU1 - 24.01.2018



Picture: No.40 - SLRM Task Leader address the meeting - KU1 - 24.01.2018



Picture: No.41 - PD/NWP and TL with the Mission KU1 - 24.01.2018



Picture: No.42 - Mission in Anuradhapura – 04.10.2018



Picture: No.43 - Mission in Anuradhapura – 04.10.2018



Picture: No.44 - Mission in Anuradhapura 04.10.2018



Picture: No.45 - PD/NWP explain some issues to Mission in Kurunegala – 04.10.2018

5.0 Issues observed (Environment related) and status of compliance

All the Contractors engaged in construction activities on 225 roads in year 2018. Therefore, many environmental issues are evident in their CPs.

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 27 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.

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.

Following key Environmental issues were recorded during year 2018.

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 2018 was not a dry year like year 2017 (Refer table 28). 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.

Table 27: Weather condition from January to December 2018 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
KU1	00	00	00	00	07	07	00	02	00	00	00	12	01	01	04	07	14	14	00	04	04	19	08	07
KU2	00	02	05	01	02	11	03	03	05	05	01	06	02	01	02	10	20	12	01	02	03	12	11	11
KU3	02	02	01	01	02	12	01	03	06	04	09	05	01	03	06	15	18	03	02	03	16	23	19	07
KU4	01	02	03	01	06	00	00	00	00	01	04	06	00	00	05	07	15	12	00	01	07	23	09	05
KU5	03	02	05	06	13	10	03	05	03	11	10	09	00	03	06	09	13	08	00	03	00	12	10	03
PU1	03	04	11	04	00	02	01	00	07	06	13	05	00	02	00	13	05	03	01	00	04	15	13	04
PU2	08	03	01	05	07	07	09	01	07	05	05	01	01	05	03	01	14	02	00	02	06	16	12	02
PU3	01	00	05	02	07	17	05	08	05	01	01	00	01	00	01	10	13	06	03	00	03	22	15	07
AP1	00	00	02	01	03	01	00	00	00	07	06	01	02	03	02	07	11	00	00	03	06	20	10	08
AP2	00	01	04	01	05	01	01	02	06	07	05	03	01	02	02	03	03	02	02	01	04	10	12	02
AP3	00	02	03	06	13	00	00	02	05	12	05	09	00	01	02	12	07	00	00	00	03	16	09	03
AP4	00	00	00	00	01	00	00	00	00	05	03	01	00	03	02	06	12	00	00	02	04	05	15	02
PO1	01	02	00	00	00	00	00	02	00	01	06	05	01	21	05	03	06	03	00	05	05	02	21	08
PO2	02	01	00	01	01	00	00	02	00	02	02	03	02	04	03	04	14	00	00	06	04	15	13	11
PO3	03	02	00	01	08	00	01	00	01	09	02	08	02	04	06	03	05	00	01	03	05	03	08	03



Picture: No. 46- Materials transport by Covering - KU1



Picture: No. 47- Watering for dust control –KU2



Picture: No. 48- Watering for dust control –PO2



Picture: No. 49- Covered well for dust control –KU3



Picture: No. 50- Covered materials for dust control –KU3

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.



Picture: No. 52- Blocked drainage – ID71/KU3



Picture: No. 53- Removed Blockage of drainage – ID71/KU3



Picture: No. 54- Blocked drain – ID24/AP3



Picture: No. 55- Removed Blockage of – ID24/AP3



Picture: No. 56- Blocked drain – ID09/PU2



Picture: No. 57- Removing Blockage of – ID09/PU2

3. Flooding issues

Some road sections have been identified to have potential issues of flooding in accordance with 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.



Picture: No. 58 - Road eroded by flood – ID47/KU2



Picture: No. 59 – Temporary solution for transport – ID47/KU2



Picture: No. 60-Road eroded due to flood – ID66/PO3



Picture: No. 61-Retaing wall constructed to prevent from flood damage – ID66/PO3



Picture: No. 62 - Flood issues – ID 33/AP4



Picture: No. 63 - Resolved flood issues – ID 33/AP4



Picture: 64 - flood effects - ID34/KU1F



Picture: 65 - RIP RAP method applied to mitigate flood effects - ID34/KU1F

4. Soil erosion

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



Picture: No. 66-Erosion preventive bund – ID71-KU3



Picture: No. 67 – Turfing to arrest soil erosion – ID57/KU2

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 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.



Picture: No. 68- Fuel/lubricants stored under roof building/KU1



Picture: No. 69- Fuel/lubricants loading store/KU1



Picture: No. 70- Fuel/lubricants loading store/AP1



Picture: No. 71 - Fuel/lubricants loading store/AP1



Picture: No. 72 - Fuel collecting tray

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 know how 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.



Picture: No. 73 - Safety arrangement – ID4/PU2



Picture: No. 74 - Closed road showing alternative direction – ID43/AP1

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 28.

Table 28: Tree re- planting in Numbers

District	No. of Trees removed	No. of Trees re- planted
Kurunegala	87	435
Puttalam	12	117
Anuradhapura	71	511
Polonnaruwa	69	480
Total	239	1543

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



Picture: No. 75- PD/NWP plants tree in PO2/NCP



Picture: No. 76- TL plants tree in PO2/NCP



Picture: No. 77- Contract Specialist plants tree in PO2/NCP



Picture: No. 78- RE/PO plants tree in PO2/NCP



Picture: No. 79- A student plants tree in KU3



Picture: No. 80- ARE plants tree in AP4

8. 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.



Picture: No. 81 - Garbage bins AP4



Picture: No. 82 - Garbage bins AP3



Picture: No. 83 - Garbage bins KU3



Picture: No. 84 - Garbage handing over to LGA bins AP1

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 stock pile yards, not rehabilitated stock pile 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.

6.0 Public consultation and information dissemination

The Public consultation is a principle 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 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. And also, refreshing Transect Walks after the meeting were

conducted. The ideas, suggestions and complaints from public were received and they are considered as important inputs in designing the roads.



Picture: No. 85- GRC Meeting-ID86/KU1 – 17.09.2018

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. 14 of Clause No. 51 in the Updated Facility Manual.

The Contractors have published posters at public places to inform the public to send their issues related to road constructions. And also, complaint/suggestions/requests boxes are erected at all roads to obtain the community perceptions for road rehabilitation.



Picture: No. 86-Public notice - KU3



Picture: No. 87-Complain Box – PU3

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 and 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 demonstrated at public places as Paper notice and Road notice name boards with basic information.



Picture: No. 88-Public consultation at ID71/AP3 – 28.11.2018



Picture: No. 89-Public consultation at ID86/KU1 – 17.09.2018



Picture: No. 90-Public consultation at ID1/PU1 – 10.08.2018

7.0 Programs and activities to enhance 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 PIC2 staff. The table 29 briefs Mini Workshops conducted by PIC2 except specialty focused environmental capacity building programs because they are in ***Annexure II***. In this table, the HIV/AIDS programs conducted by Contractors are mentioned.

Table 29 Environmental related capacity programs conducted during year 2018

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
1	17.01.2018	Training of Online Site-specific Environmental Safeguards Monitoring System (SESMS) - NCP	<p>01. Demonstration on identification of significant Environmental issues related to road projects, possible mitigation measures and establishing meaningful monitoring parameters which could assess the compliances status of mitigation measures.</p> <p>02. Demonstration on SESMS features for field monitoring, data capturing, data uploading and downloading summery report.</p> <p>03. Field visit along sample road and experiencing data capturing and uploading.</p> <p>04. Discussion on issues related to SESMS and trouble shooting.</p>	<p>Dr. K.M.L.Palitha Bandara/Focal Point (National Resource/ Environment) of ADB/SLRM</p> <p>Mr.Vidura Ekanayake/ Senior Operations Assistant of ADB/SLRM</p> <p>To PIU/NCP, PIC02 and Contractor.</p>	23
02	18.01.2018	Training of Online Site-specific Environmental Safeguards Monitoring System (SESMS) - NWP	<p>7.1.1.1 Demonstration on identification of significant Environmental issues related to road projects, possible mitigation measures and establishing meaningful monitoring parameters which could assess the compliances status of mitigation measures.</p> <p>7.1.1.2 Demonstration on SESMS features for field monitoring, data capturing, data</p>	<p>Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM</p> <p>Mr.Vidura Ekanayake/ Senior Operations Assistant of ADB/SLRM</p> <p>To PIU/NWP, PIC02 and Contractor.</p>	26

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
			<p>uploading and downloading summary report.</p> <p>7.1.1.3 Field visit along sample road and experiencing data capturing and uploading.</p> <p>7.1.1.4 Discussion on issues related to SESMS and trouble shooting.</p>		
03	06.02.2018	Workshop on HIV-AIDS Awareness Program by Contractor – KU3	<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>Doctors from MOH</p> <p>To RDA, PIC02 and Contractor Road related community</p>	78
04	15.02.2018	Workshop on HIV-AIDS Awareness Program by Contractor – PO3	<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</p>	<p>Doctors from MOH</p> <p>To RDA, PIC02 and Contractor Road related community</p>	97

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
			<p>services</p> <p>04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD</p>		
05	20.02.2018	Workshop on HIV-AIDS Awareness Program by Contractor – PU2	<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>Doctors from MOH</p> <p>To RDA, PIC02 and Contractor Road related community</p>	86
06	20.03.2018	Workshop on HIV-AIDS Awareness Program by Contractor – PU1	<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</p>	<p>Doctors from MOH</p> <p>To RDA, PIC02 and Contractor Road related community</p>	171

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
			HIV/AIDS and STD		
07	21.03.2018	Induction Training for DSESAs ESO and ESA in AP,PO,PU,KU and PD office NCP	01. Environmental activities at district level 02. Social safeguards activities at district level 03. Responsibility of implementation of social and environmental monitoring at district level	TL. Mr. Inderjeet Singh Gill. ESD/SG Sp. Mr. Saranga Gajasinghe. ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To PIC02 and NCP/RDA	18
08	14.05.2018	Workshop on PBM conducted by RDA	01. Introduction and road maintenance techniques. 02. Introduction and road surface maintenance	Mr. R.M. Amarasekara. Additional DG/RDA, Rural Road Specialist(iRoad) To PIU, PIC02 and Contractor.	136
09	14.05.2018	Workshop on HIV-AIDS Awareness Program by Contractor – PO2	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	80
10	17.05.2018	Workshop on Gender Awareness	01. Concept of Gender and how to interpret the word 'Gender' 02. Gender equity and Equality	ADB/SLRM To ESD/RDA, PIU, PIC02 and	34

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
		Program conducted by ADB - KU	03. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	Contractor	
11	22.05.2018	Workshop on Gender Awareness Program conducted by ADB - PU	01 Concept of Gender and how to interpret the word 'Gender' 02 Gender equity and Equality 03 How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	37
12	04.06.2018	GIS base Environmental compliance monitoring system for DSESAs	Introduction to fundamentals of GIS Based environmental monitoring Implementation of GIS Based monitoring	ESSO – Ms.S.N.D. Amaratunge To DSESAs (KU, PU, AP & PO)	05
13	07.06.2018	Workshop on Gender Awareness Program conducted by ADB - PO	01. Concept of Gender and how to interpret the word 'Gender' 02. Gender equity and Equality 03. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	40
14	19.06.2018	Workshop on Gender Awareness	01 Concept of Gender and how to interpret the word 'Gender' 02 Gender equity and	ADB/SLRM To ESD/RDA, PIU, PIC02 and	52

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
		Program conducted by ADB - AP	Equality 03 How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	Contractor	
15	29.06.2018	Workshop on Safeguards compliance before Handing Over the Road	01. Expected safeguards activities in principle documents. 02. Use environmental checklists to assess present issues at sites, 03. Include outstanding lists of issues of safeguards into taking over list. 04. Completion of GRC requests encountered at site level 05. Assessing house accesses situation	ESD/SG Sp. Mr. Saranga Gajasinghe. ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To NCP/RDA, PIC02 and Contractor	25
16	06.07.2018	Workshop on HIV-AIDS Awareness Program by Contractor – KU2	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	97
17	06.07.2018	Workshop on HIV-AIDS Awareness Program by Contractor – PO1	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in	Doctors from MOH To RDA, PIC02 and Contractor Road related community	70

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
			Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD		
18	20.07.2018	Workshop on HIV-AIDS Awareness and road safety Program by Contractor – AP4	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of IV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD 05. Road safety	Doctors from MOH To RDA, PIC02 and Contractor Road related community	201
19	20.07.2018	Workshop on HIV-AIDS Awareness Program by Contractor – KU5	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	130
20	26.07.2018	Workshop on HIV-AIDS Awareness	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of	Doctors from MOH To RDA, PIC02 and Contractor	43

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
		Program by Contractor – KU1	<p>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>	Road related community	
21	01.08.2018	Status of public proposals which are incorporated into road design	<p>01. Importance of public proposal on iRoad construction</p> <p>02. Recording of non-accepted proposals with reasons</p> <p>03. Dissemination of accepted and non-accepted public proposals</p>	ESD/SG Sp. Mr. Saranga Gajasinghe. ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To NCP/RDA, PIC02 and Contractor	49
22	06.08.2018	Environmental and Social Safeguards at Road handing over	<p>01. Expected safeguards activities in principle documents.</p> <p>02. Use environmental checklists to assess present issues at sites,</p> <p>03. Include outstanding lists of issues of safeguards into taking over list.</p> <p>04. Completion of GRC requests encountered at site level</p> <p>05. Assessing house accesses situation</p>	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESSO and DSESAs(KU, PU, AP & PO)	07
23	07.08.2018	GIS base Environmental compliance monitoring system	<p>01. Introduction to fundamentals of GIS Based environmental monitoring</p> <p>02. Implementation of GIS Based monitoring</p>	Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM To ESSO and DSESA	03

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
24	15.08.2018	Workshop on HIV-AIDS Awareness Program by Contractor – AP1	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	139
25	31.08.2018	Mini workshop on GIS Base Site Specific Environmental Monitoring System for DSESAs	01. Introduction to fundamentals of GIS Based environmental monitoring 02. Implementation of GIS Based monitoring 03. Some problems encountered at site.	ESSO – Ms.S.N.D. Amaratunge To DSESAs (KU, PU, AP & PO) New DSESA for AP replacing current person due to his resignation.	06
26	12.09.2018	Workshop on Ongoing Environmental Issues on site for DSESAs, ESO and ESA in KU	01. Experience of site monitoring 02. Understand the issues of working with Contractors 03. Reporting and advising	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESO & ESA/RDA, ESSO, DSESA and ESOs	13
27	14.09.2018	Workshop on Ongoing Environmental Issues on site for DSESAs, ESO and ESA in PU	01. Experience of site monitoring 02. Understand the issues of working with Contractors 03. Reporting and advising	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESO & ESA/RDA, ESSO, DSESA and ESOs	10
28	19.09.2018	Workshop on ongoing environmental issues on sites	01. Experience of site monitoring 02. Understand the issues of working with Contractors	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda.	14

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
		for DSESAs, ESOs and ESAs - AP	03. Reporting and advising	To ESO, SSO & ESA, SSA/RDA, ESSO, DSESA and ESOs	
29.	22.09.2018	Workshop on HIV-AIDS Awareness Program by Contractor – KU4	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	69
30	28.09.2018	Workshop on HIV-AIDS Awareness Program by Contractor – AP2	01. Current situation on HIV/AIDS and STD in Sri Lanka 02. Spreading of communicable and non-communicable diseases 03. Treatments and services of HIV/AIDS and STD Units in Hospitals/Counselling services 04. Community participation for preventing of HIV/AIDS and STD and Social background on HIV/AIDS and STD	Doctors from MOH To RDA, PIC02 and Contractor Road related community	65
31	08.11.2018 & 09.11.2018	Workshop on Online Environmental Compliance Monitoring	01. Transforming environmental monitoring plan to SESMS 02. Uploading modified EMoP to SESMS format 03. Uploading modified EMoP to the online system and field data capturing 04. Data analysis and trouble shooting	Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM To PIU and PIC02	25



Picture: No. 91- Mini Workshop on Environmental Safeguards – 31.08.2018



Picture: No. 92- Workshop on Public requests incorporated into designs – 01.08.2018



Picture: No. 93- Workshop on online environmental monitoring – 17.01.2018



Picture: No. 94- Workshop on online environmental monitoring – 8 & 9 November 2018



Picture: No. 95- Workshop on online environmental monitoring – 8 & 9 November 2018



Picture: No. 96- Field training on online environmental monitoring – 8 & 9 November 2018

In 2017, 6 school awareness programs on selected environmental issues were conducted by KU1, KU3, KU5, PU2 and AP3. Details of them had been included in the Environmental Compliance Monitoring Report of 2017. Therefore, only the school environmental awareness programs conducted in 2018 are mentioned as per the table 30.

Table 30: School Environmental Awareness/Training Programs

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 Weerathne – ESO
		17.10.2017	Kanawa Vidyalaya	Waste Management	45	10	Grade 01 to 11	Mrs. Padmini Weerathne – 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	169	10	Grade 09 & 10	PHI and Police Officer

S. No.	CP	Date	School	Theme of the program	No. of Participated Students	Other Participated	Years of Students	Resource Person/s
				Program				
07	AP4	19.01.2018	Ho/Ruwanweli Central College-	Garbage management	79	16	Grade 1-5	Mr. Amila Chandana – ESO Environmental Officer (CEA)



Picture: No. 97-School Environmental Training Program – Boyane School – 31.07.2018



Picture: No. 98-School Environmental Training Program – Boyane School – 31.07.2018



Picture: No. 99-School Environmental Training Program – Boyane School – 19.01.2018



Picture: No. 100-School Environmental Training Program – Boyane School – 19.01.2018

By the end of 2018, all Contract Packages have removed trees after obtained the approval from DS. The total No. of trees removed is 239 and estimated No. of trees to be replanted is 717 at the rate of 1:3. However, 1543 trees have been planted. This is a very good progress of tree planting programs. **Annexure VI** shows the progress of tree planting programs of Contract Packages. Most of Contractors used schools as supportive partners in this progress by arranging Environmental School awareness programs for students and sometimes assisting to help those giving required accessories or constructing a physical requirement such as playground.



Picture: No. 101-AP4 – Horowpothana 19.01.2018



Picture: No. 102- KU3 – Raddagoda 19.01.2018

8. Conclusions and recommendations

8.1 Conclusions

1. This is the annual environmental compliance monitoring report for the time period from January 2018 to December 2018. The Annual Environmental Compliance Monitoring Report 2017 had four recommendations. The first recommendation was to conduct an environmental training program for the top hierarchy people of PIU, PIC and Contractors by the Senior Project hierarchy to understand their role in front of each other to steer the future project activities properly. But it was not success due to lack of fund allocated for the capacity building.
2. Due to policies of new government, the environmental conservation is considered as a major component in the development projects. Therefore, the GS&MB was strict to issues IMLs for borrow pits. At the end of the year, it was eased for some major projects in the country and iRoad is a one of them. However, the progress of the rehabilitation activities were very much delayed during the early period of the project and the Contractors were having difficulties to complete the project. However, PDs of NWP and NCP have given opportunities to Contractors to discuss their difficulties at provincial level steering committees and other important meetings.
3. On the job training and experience exchange programs have been conducted by environmental safeguard division of the Engineer depending on their limited resources.

4. The Contractor is required to plant trees as compensation to removed trees based on 1:3 ratio according to EMP and in the BOQs. However, the girth and height of a plant that is to be replanted is specified as girth of 300mm and height of 2m. Finding of such specimens for replanting is a practical problem since it is difficult to find out some endangered or endemic or native plant species in that size. It was recommended to consider this issues but no any response received from the client.
5. The PDs of both provinces have understood the difficulties of Environmental Safeguards component due to spread of vast geographical area of the project. Therefore, they informed to Engineer any other environmental issues met by them and their staff during their site visits. It was a very good advantage in the project to implement the safeguards activities as much as possible.
6. The CSD TA Specialist is much appreciated. His service throughout the project is very useful and marvelous. If any problem faced by Engineer's staff or Client, he comes and involves immediately. Especially in community consultation, his effort is very important and useful for future projects too.
7. All REs and their staff (AREs, CEs and TOs) were actively committed in implementation of safeguards component on the ground. At the beginning of the project, they have some doubt whether the environmental safeguards activities can be implemented properly. Now they are very experienced personnel who developed their safeguards skills after learning by doing. Now they know how to implement environmental safeguards activities at sites. In this regard, the leadership given by Team Leader to change the attitude of technical staff and other strategies applied for the project are very valuable and important.
8. The iRoad PIC2 has 227 roads scattered everywhere in the North Central Province and North Western Province. The SSEMAPs are required to prepare 454 for Construction Stage and Post Construction Stage. EMCs for Pre-construction Stage, Construction Stage and Operational Stage are required in 1019 numbers. The total of them are 1473. They should be reviewed by the ES with the support of only one ESSO/PIC. In addition to this task, ES has to monitor the sites, prepare other documents and participate in the meetings. It was suggested to recruit an

Environmental Assistant to each district under the RE's office. With the positive responses of Team Leader and 2 PDs of NWP and NCP, 4 DSESAs have been recruited for 4 districts. It was very useful for the implementation of environmental safeguards activities.

9. The ADB SLRM has introduced a GIS Base environmental compliance monitoring system to be applied in the project. The training program conducted by SLRM-ADB is expected to apply that system from 2019 properly.
10. The ESOs of Contractors had look after more than 11 roads scattered everywhere in their contract packages. Many of 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 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 is depended on the compliance and performance of work at the site. If the ESO does not have suitable vehicle to use at any climatic situation, the objective of the safeguards policies are not achieved.

8.2 Recommendations

1. Except few Contact Packages, the constructions activities are already over or being completed. A workshop which was recommended to be conducted by the Senior Project hierarchy to PIU, PIC and Contractors has not been implemented or paid attention. It is a big failure of the project hierarchy and it is recommended to conduct in future projects.
2. The standard size of plants which should be purchased by Contractors for tree planting should be redefined reasonably by the Client.

3. The involvement of CSD SG Specialist (Mr. Saranga Gajasinghe) is very useful for future projects. It is recommended to obtain his experience with knowledge for other projects from beginning to end.
4. The ESOs of Contractors should be considered as key staff of the Contractor and provisions should be allocated for 4 wheel vehicle for ESO to fulfill and achieve the Environmental Safeguards Policies of ADB and Sri Lanka Government.

Environmental Enrichment

The Road ID 12 named Eluwankulama - Gagewadiya road located in Wanathawilluwa DS division of Puttalam District. It is being rehabilitated by Ranken Railway Construction Company as the Contractor with the fund of Asian Development Bank. The buffer zone of Wilpaththu National Park is adjacent to the road. The total length of that road is 7.02 Km. Therefore, it was expected to rehabilitate this rural road without damage or disturbing the natural environment and people's livelihood. However, the conditions of DWLC and FD were obtained to rehabilitate this existing road and those conditions are adhered by the project.

The flood during rainy seasons, soil erosion and dust emission at construction period can be seen as environmental issues where road rehabilitation is implemented. There is no proper drainage system to flow water during rainy season.

Around last 20 years, this road has been used by Gangewadiya fishery people to connect with Eluwankulam and Wanathawilluwa market places to buy their day to day household requirements. And also, it has been used by local and foreign tourists for their entertainments. They are attracted by wildlife of Wilpaththu National Park and very beautiful eco-system.



**Gangewadiya, the fishery village located
at the end of road**



**Gangewadiya, the fishery village located at
the end of road**



Swine management is an additional income avenue of the people, Gangewadiya



Gangewadiya, the fish stalls



Livelihood in natural beauty



Resort in Gangewadiya

There is a wetland located in 'Ayliya' area on this road. The either side of the road in this area is filled with rain water during the rainy season. Except very small damaged culvert, there are no sufficient culverts along this area to flow water here and there from the past due to this road. So small animals such as toasties, snake etc. are died when they cross the road because of vehicle transportation. In this project, 2 large culverts are constructed. Then most of them can move from side to side through these culverts.

On the other hand, dust generation is prominent issue on the road because rain water comes and deposits on the road. If there is a sufficient drainage system with suitable culverts, this soil is not deposited on the road and dust issue is resolved. By this project, 9 new culverts are constructed and 5 old culverts are rehabilitated with earth drains.



A new culvert

Solving Lead Away Issue

In the iRoad program, Kurunegala district has divided into 5 Contract Packages as KU1, KU2, KU3, KU4 and KU5. The Hormbuwa – Mawee Ela Road identified as road No. 86 is one of 16 roads of KU1. The length is 6.5 km. There is a lot of lanes from this road at many locations. Lane No. 3 is a one of them located at Chainage 0+839 LHS.



No. 3rd Lane

Around this area, RHS is higher than LSH and rain water flows from RHS to LHS. But there is no suitable culvert in this area to pass the water from RHS to LHS due to lack of leader ways at LHS. It would be a flood hazardous situation during rainy seasons. The 3rd lane is the suitable way to construct a culvert crossing the road to solve this issue. This lane belongs to Kuliayapitiya East Pradeshiya Sabha (PS). Even PS agreed to use the LHS of the drain in this lane, Mrs. L.P.I. Kumari Gunawardana and Mrs. D.M. Bandara Menike who are residents on the lane objected to divert RHS water to the lane. They sent 2 letters to ADB objecting to the lead away. The Project Director (PD)/NWP with support of PIC2 Consultants has conducted many discussions with these residents to obtain their consent for the construction but it was difficult to get the support of them.



Starting point of 3rd Lane



**PD/NWP Check the size of existing hume pipe
of house access**



**Discussion with Ms. Kumari and Bandara
Menike**



GRC Meeting held

Mr. Saranga Gajasinghe, TA CSD Specialist has been assigned by the ADB to involve in this issue to solve and report to the ADB. PD arranged 2 GRC meetings and discussed this matter with the villagers.

It was revealed in these meetings that villagers can't erect their fences from the road side due to their access problem because of incomplete drains. Finally, it was decided to construct a line drain along the LHS of the lane upto end of the Kumari Gunawardana's land. Once a work team went to start the construction activities, she has objected again asking for a written agreement.



Ms. Kumari explain the issue to Mr. Saranga

With the involvement of Mr. Saranga Gajasinghe, an agreement was signed and solved the issues.



Size of the old hume pipe



Latest large hume pipe and hose access



**Happy lady for her new house access & lined
drain**



Line drain



New culvert constructed crossing the road

Flood preventive road for people – ID33/AP4

Anuradhapura district has been divided into 4 Contract Packages to implement the construction activities under iRoad Program as AP1, AP2, AP3 and AP4. The Road ID 33 is a one of road in the AP4. This road from Elapthwewa to Ritigahawewa is located in the Horowpothana DS division.

There are Muslims and Sinhalese are living by the side of the road. And also, there are some forest patches adjacent to the road at some locations and elephants are roaming in the evening and night searching for food and water. On the other hand, this road was so damage before the project. On the other hand, this road connects the A and B roads from Anuradhapura to Trincomalee and Medawachchiya to Horowpothana respectively. Therefore, this is a short cut in between these two roads. People who are going towards the villages in Horowpothana and Medawachchiya use this road usually. The school children who are going to Horowpothana from villages located along the road are going on this road by put bicycles, motor bikes and three wheelers. They had to face lot of problems due to pot holes. As well, it is so difficult to go during rainy seasons due to inundation at some places.

Archeologically, this road is very important because Kiralagala Budhist archeological site is located adjacent to this road. Therefore, pilgrims and tourists use this road usually as a shot cut road.

Under this iRoad project, pot holes have been vanished. Inundation during rainy seasons has been arrested by applying RIP - RAP mechanism where it required. However, the travel time is shortened.



Old situation of flood area



Before the construction



Before the construction



Before the construction



Before the construction



After construction



After construction



After construction

Relocation of a Culvert at Road ID 73 of PO 02 package

There are 3 Contract Packages in Polonnaruwa district as PO1, PO2 and PO3. The road ID 73 belongs to PO2 and it is named as Diwulankadawala – Aliwanguwa Junction road having a length of 3.13KM.

This villages which served by this road are economically very poor and backward. The family of Mrs. H.M. Navodi Madhushika is living in the village called Divulankadawala. An old pipe culvert in this village located at Chainage 0+ 946 has been planned to reconstruct under the iRoad program. But nobody has identified that the water coming through the culvert harm the house of Mr. H.M. Navodi Madhushika located at the downstream (RHS). This family has being affected for a long period from water due to this culvert. Many times in the year, the veranda is inundated. Even they have requested from various government bodies to rectify this issue, nobody has responded positively.

However, they have informed this issue to iRoad project (Contractor-MAGA). The Contractor discussed with the Resident Engineer and observed the locational situation. After a long discussion and observation, it was decided to change the location of culvert and the house owner agreed to allocate a land for the new lead away. Therefore, a new culvert was built at Chainage 0+933 to rectify the issues. The family is very happy and thanked the project for the solution for their long term issue.



The homestead at the downstream



Removing old culvert



Removing old culvert



New culvert



New culvert

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	-
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	-
	6.	Miss. Hamsathuwany Muthukumarasamy	17.01.2018	-
KU 03	1.	Mrs. S.D.P. Weeraratne	01.09.2016	05.09.2018
	2.	Mr. G.P.R. Gunarathne	05.06.2017	23.11.2018
KU 04	1.	Mr. J.Bragathieswaran	25.10.2016	26.01.2017
	2.	Mr. V.G. Sunil Piyasiri	26.01.2017	-
	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	-
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	-
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
PU 02	1.	Miss. I.H.A.H.I. Amarasinghe	20.10.2016	-
	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. Manooj	26.02.2018	18.09.2018
	6.	Mr. R. G. C. Jayathilaka	23.04.2018	-
	7.	Mr. T. A. D. Savinda	29.08.2018	11.01.2019

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

Contract Package	Serial No.	Name of ESO	Appointed Date	Resigned Date
AP1	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
AP2	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	-
AP3	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	-
AP4	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
PO1	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
PO2	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	-
PO3	1.	Mr. R.M.T.O. Dissanayake	01.08.2016	-

Integrated Road Investment Program

Environmental Safeguards Capacity Building Programs Conducted through iRoad/PIC – 02

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
1	17.01.2018 PD's Office/NCP	Training of Online Site-specific Environmental Safeguards Monitoring System (SESMS) - NCP	<p>01. Demonstration on identification of significant Environmental issues related to road projects, possible mitigation measures and establishing meaningful monitoring parameters which could assess the compliances status of mitigation measures.</p> <p>02. Demonstration on SESMS features for field monitoring, data capturing, data uploading and downloading summery report.</p> <p>03. Field visit along sample road and experiencing data capturing and uploading.</p> <p>04. Discussion on issues related to SESMS and trouble shooting.</p>	<p>Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM</p> <p>Mr.Vidura Ekanayake/Senior Operations Assistant of ADB/SLRM</p> <p>To PIU/NCP, PIC02 and Contractor.</p>	23 Male-18 Female-05

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
2	18.01.2018 TL's Office/Kurunegala	Training of Online Site-specific Environmental Safeguards Monitoring System (SESMS) - NWP	<p>05. Demonstration on identification of significant Environmental issues related to road projects, possible mitigation measures and establishing meaningful monitoring parameters which could assess the compliances status of mitigation measures.</p> <p>06. Demonstration on SESMS features for field monitoring, data capturing, data uploading and downloading summery report.</p> <p>07. Field visit along sample road and experiencing data capturing and uploading.</p> <p>08. Discussion on issues related to SESMS and trouble shooting.</p>	<p>Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM</p> <p>Mr.Vidura Ekanayake/Senior Operations Assistant of ADB/SLRM</p> <p>To PIU/NWP, PIC02 and Contractor.</p>	26 Male-18 Female-08
3	21.03.2018 TL's Office/Kurunegala	Induction Training for DSESAs ESO and ESA in AP,PO,PU,KU and PD office NCP	<p>01. Environmental activities at district level</p> <p>02. Social safeguards activities at district level</p> <p>03. Responsibility of implementation of social and environmental monitoring at district level</p>	<p>TL. Mr. Inderjeet Singh Gill. ESD/SG Sp. Mr. Saranga Gajasinghe.</p> <p>ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda.</p> <p>To PIC02 and NCP/RDA</p>	18 Male-13 Female-05

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
4	14.05.2018 "Blue Sky" Hotel, Kurunegala	Workshop on PBM conducted by RDA	01. Introduction and road maintenance techniques. 02. Introduction and road surface maintenance	Mr. R.M. Amarasekara. Additional DG/RDA, Rural Road Specialist(iRoad) To PIU, PIC02 and Contractor.	136 Male-121 Female-15
5	17.05.2018 Hotel Kandyan Reach, Kurunegala	Workshop on Gender Awareness Program conducted by ADB - KU	01. Concept of Gender and how to interpret the word 'Gender" 02. Gender equity and Equality 03. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	34 Male-29 Female-05
6	22.05.2018 Hotel Farin Beach, Chilaw	Workshop on Gender Awareness Program conducted by ADB - PU	1. Concept of Gender and how to interpret the word 'Gender" 2. Gender equity and Equality 3. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	37 Male-28 Female-09
7	04.06.2018 TL's Office/Kurunegala	GIS base Environmental compliance monitoring system for DSESAs	1. Introduction to fundamentals of GIS Based environmental monitoring 2. Implementation of GIS Based monitoring	ESSO – Ms.S.N.D. Amaratunge To DSESAs (KU, PU, AP & PO)	05 Male-02 Female-03

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
8	07.06.2018 Gunner's Club, Minneriya	Workshop on Gender Awareness Program conducted by ADB - PO	1. Concept of Gender and how to interpret the word 'Gender' 2. Gender equity and Equality 3. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	40 Male-33 Female-07
9	19.06.2018 Grand Crown Hotel, 891, Mailagas Junction, Anuradhapura	Workshop on Gender Awareness Program conducted by ADB - AP	1. Concept of Gender and how to interpret the word 'Gender' 2. Gender equity and Equality 3. How and when Gender Consideration required to a society and what could be achieving outputs from development programs including road development.	ADB/SLRM To ESD/RDA, PIU, PIC02 and Contractor	52 Male-48 Female-04
10	29.06.2018 PD 's Office, Anuradhapura	Workshop on Safeguards compliance before Handing Over the Road	1. Expected safeguards activities in principle documents. 2. Use environmental checklists to assess present issues at sites, 3. Include outstanding lists of issues of safeguards into taking over list. 4. Completion of GRC requests encountered at site level 5. Assessing house accesses situation 6. Competition of HIV/AIDS and safety programs	ESD/SG Sp. Mr. Saranga Gajasinghe. ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To NCP/RDA, PIC02 and Contractor	25 Male-21 Female-04
11	01.08.2018 Auditorium of Wariyapola Divisional Secretariat's Office	Status of public proposals which are incorporated into road design	01. Importance of public proposal on iRoad construction 02. Recording of non-accepted proposals with reasons 03. Dissemination of accepted and non-accepted public proposals	ESD/SG Sp. Mr. Saranga Gajasinghe. ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To NCP/RDA, PIC02 and Contractor	49 Male-43 Female-06

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
12	06.08.2018 TL's Office	Environmental and Social Safeguards at Road handing over	01. Expected safeguards activities in principle documents. 02. Use environmental checklists to assess present issues at sites, 03. Include outstanding lists of issues of safeguards into taking over list. 04. Completion of GRC requests encountered at site level 05. Assessing house accesses situation 06. Competition of HIV/AIDS and safety programs	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESSO and DSESAs(KU, PU, AP & PO)	07 Male-04 Female-03
13	07.08.2018 ADB	GIS base Environmental compliance monitoring system	01. Introduction to fundamentals of GIS Based environmental monitoring 02. Implementation of GIS Based monitoring	Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM To ESSO and DSESA	03 Male-01 Female-02
14	31.08.2018 TL's Office	Mini workshop on GIS Base Site Specific Environmental Monitoring System for DSESAs	1. Introduction to fundamentals of GIS Based environmental monitoring 2. Implementation of GIS Based monitoring 3. Some problems encountered at site.	ESSO – Ms.S.N.D. Amaratunge To DSESAs (KU, PU, AP & PO) New DSESA for AP replacing current person due to his resignation.	06 Male-02 Female-04
15	12.09.2018 TL's Office	Workshop on Ongoing Environmental Issues on site for DSESAs, ESO and ESA in KU	1. Experience of site monitoring 2. Understand the issues of working with Contractors 3. Reporting and advising	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESO & ESA/RDA, ESSO, DSESA and ESOs	13 Male-09 Female-04
16	14.09.2018 CE's Office (PU 02), Chilaw	Workshop on Ongoing Environmental Issues on site for DSESAs, ESO and ESA in PU	1. Experience of site monitoring 2. Understand the issues of working with Contractors 3. Reporting and advising	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESO & ESA/RDA, ESSO, DSESA and ESOs	10 Male-07 Female-03

No.	Date	Name of the Program	Brief Description of the Program	Resource persons and Target Group	Nos. attended
17	19.09.2018 RE's Office, Anuradhapur a	Workshop on ongoing environmental issues on sites for DSESAs, ESOs and ESAs - AP	<ol style="list-style-type: none"> 1. Experience of site monitoring 2. Understand the issues of working with Contractors 3. Reporting and advising 	ES. Mr.A.H.M.R. Abeyrathne. SGRS. Mr. N. Maddugoda. To ESO, SSO & ESA, SSA/RDA, ESSO, DSESA and ESOs	14 Male-09 Female-05
18	08.11.2018 & 09.11.2018 Hotel Kandyan Reach, Kurunegala	Workshop on Online Environmental Compliance Monitoring	<ol style="list-style-type: none"> 1. Transforming environmental monitoring plan to SESMS 2. Uploading modified EMoP to SESMS format 3. Uploading modified EMoP to the online system and field data capturing 4. Data analysis and trouble shooting 	Dr. K.M.L.Palitha Bandara/Focal Point(National Resource/ Environment) of ADB/SLRM To PIU and PIC02	25 Male-20 Female-05

Attention paid for complains, requests and suggestions made at Transect Walks and GRC meetings

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
KU-1	431	312	112	<ul style="list-style-type: none"> • The request/suggestion is to construct 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. • The request/suggestion is to improve the Road which is connected to Katupotha. But no allocation. • The request/suggestion is to widen the road width. But no widening is allowed. • The Request to Rehabilitate the Bridges but they are beyond project scope. • The request/suggestion is to construct culverts for each and every flooding area. But in this project cannot construct all the culverts according to allocated funds. • The three requests/suggestions are to provide new culverts. But technically decided to construct at another relevant places. • The request/suggestion is to construct a new culvert, but technically decided to construct it at another suitable place. • The request/suggestion is to construct a new culvert to avoid flooding through the public land. But existing leader way is not sufficient for the draining, therefore decided to do capacity improvement for the leader way. • The request/suggestion is to raise a retaining wall of canal sluice. But Engineer decided that not wants to raise their required level.

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
KU-2	691	496	155	<ul style="list-style-type: none"> • The request/suggestion is to construct 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 widening is allowed. • The request/suggestion is to take existing paved interlocking blocks for the temple. But those are belonged to Pradeshiya Sabha and it was given to them. • 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. • 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.
KU-3	306	287	11	<ul style="list-style-type: none"> • The request/suggestion is to construct the Irrigation channel, but Irrigation channels are not constructing by the project. • The request/suggestion is to widen the road by taking addition land strip, but no any land acquisition in this project. • The request/suggestion is to rehabilitate two bridges in this road, but bridges are not constructed by in this project. • The request/suggestion is to widen the road width, but

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>road can't be widened up to 4m because not enough funds.</p> <ul style="list-style-type: none"> The request/suggestion is to construct drains along the road side 0+000 to end, but it is impossible due to limited funds.
KU-4	479	422	27	<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 in the project. The request/suggestion is to provide house accesses. But in this project only provide house accesses which are removed while constructing. No other accesses are provided. 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. The request/suggestion is to widen the Lake bund area. But there is no sufficient funds. The request/suggestion is to widen road within the tank bund area during rainy season, otherwise paddy field near Nlumpathwewa Lake will be flooded. 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 Project. The request/suggestion is to improve the two Lake bunds. But BOQ quantities are not sufficient. The request/suggestion is to improve the junction with the roundabout. But there is no enough space for a roundabout. The request/suggestion is to widen the narrow Lake bund. But there are no provisions for bund widening. Hence only can provide passing bays. The request/suggestion is to provide house accesses. But

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>only public accesses will be provided.</p> <ul style="list-style-type: none"> The request/suggestion is to improve the junction. But because of the cost constraint, it cannot be implemented.
KU-5	233	208	04	<ul style="list-style-type: none"> The request/suggestion is to elevate the Tank Bund, but cannot be widened or elevated. 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 to implement the request. The request/suggestion is to reconstruct the damaged culvert, but there is no such a culvert at that location. The request/suggestion is to reconstruct the insufficient culvert openings, but there are no such culverts at those locations
PU-1	122	104	04	<ul style="list-style-type: none"> The request/suggestion is to build a concrete drain at flood areas. But there is not an allocation fund for that. The request/suggestion is to remove the boundary wall at the sharp bend. The permanent structures will not be removed. The request/suggestion is to construct a bridge instead of a course way. But money is only allocated for the culverts.
PU-2	235	212	07	<ul style="list-style-type: none"> The request/suggestion is to increase the number of culverts due to flood inundation area. It is not possible according to the technical aspects as well as the limited funds. 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

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>BOQ quantities it cannot be proceeded.</p> <ul style="list-style-type: none"> The request/suggestion to construct the road surface by using asphalt or concrete on the sharp bend areas. But there is no such mechanism available.
PU-3	142	124	00	<ul style="list-style-type: none"> The request/suggestion is to reconstruct the anicut due to insufficient width. But it is beyond the scope. The request/suggestion is to provide a hump near the Mohottimulla School. It is to be considered further.
AP-1	393	259	15	<ul style="list-style-type: none"> The request/suggestion is to fix a cross drain near the four way junction. But technically it is not accepted. The request/suggestion is to fix a culvert at the starting point of the by road which is turned to Air Port road. But technically it is not accepted. The request/suggestion is to take an action for a Mara Tree. But technically it is not accepted. 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 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. The request/suggestion is to do shoulder constructions while asphaltting. But in technically have to do shoulder constructions after the asphalt paving.
				<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.

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
AP-2	196	171	17	<ul style="list-style-type: none"> • The request/suggestion is to construct new culverts, but due to lack of provisions only provide earth drains and cleaned the culverts. • 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 drain facilities will be introduced. • The request/suggestion is to construct new box culvert in large size instead of existing present culverts. But PIU did not accept it. • The request/suggestion is to lay the pipe lines crossing the road. It is an illegal pipe line crossing. • The request/suggestion is to construct a bridge over the 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 was forwarded into the Department of Irrigation.
				<ul style="list-style-type: none"> • The request/suggestion is to renew the irrigation structure due to leakage in it. But it cannot do in this project due to lack of funds. So that it was forwarded to Department of Irrigation. • 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.

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
AP-3	218	204	14	<ul style="list-style-type: none"> • 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. It cannot be accepted. • The request/suggestion is to construct a new culvert to control the massive water flow of the road. But no need a culvert to accommodate the water flow. • 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. Accordingly the BOQ quantities it not sufficient.
AP-4	327	287	40	<ul style="list-style-type: none"> • The request/suggestion is to construct a new culvert. But there is not a proper leader way. • The request/suggestion is to construct a new culvert. But the land owner disagreed to release his own land for leader way. • 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 not 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. • The request/suggestion is to construct a new culvert. But a

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>lead away not available.</p> <ul style="list-style-type: none"> • 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 request/suggestion is to construct a new culvert. But villagers said that they do not want 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. Then no need capacity improvement. • 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 not required. • 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

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>existing culvert. So 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 construct a new Box culvert. But cleaned the lead 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. But the lead away cleaned and formed the earth drain. Hence no need capacity improvement. • The request/suggestion is to increase the capacity of the existing bridge. After the joint inspection it is accepted to establish a new Box culvert.
PO-1	160	151	09	<ul style="list-style-type: none"> • The request/suggestion is to construct a new bridges at course way locations. But BOQ quantities are limited and bridge construction is out of the project scope. • The request/suggestion is to construct an earth drain system in the area which is not belonged to the project. Hence it cannot be accepted. • 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 culvert is a course way and there was no provisions 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 flowing during rainy season. But it was identified that

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>the existing culvert is having enough discharge capacity.</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 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 But a properly maintained earth drain system would be sufficed.
PO-2	187	169	18	<ul style="list-style-type: none"> • The request/suggestion is to widen the minimum road width up to 4m. But in this project only existing width is rehabilitated. • 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 minimum road width up to 4m. But in this project only existing width is rehabilitated. • 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 widen the bend location properly. But it cannot be applied in this project.

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<ul style="list-style-type: none"> • The request/suggestion is to widen the minimum road width up to 4m. But in this project only existing width is rehabilitated. • The request/suggestion is to widen the bridge otherwise it is not enough for movement of vehicles. No provisions for bridge. • 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 minimum road width up to 4m. But in this project only existing width is rehabilitated. • 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 minimum road width up to 4m. But in this project only existing width is rehabilitated. • The request/suggestion is to construct a new culverts. But the BOQ quantities are not enough to do it. • The request/suggestion is to widen the minimum road width up to 4m. But in this project only existing width is rehabilitated. • 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. • 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 widen the minimum road

Contract Package	No. of Complaints/ Requests/ Suggestions	No. of action taken	No. of rejected due to reasonable matters	Remarks
				<p>width up to 4m. But in this project only existing width is rehabilitated.</p> <ul style="list-style-type: none"> • 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 change design from culvert to bridge. But the BOQ quantities are not enough to do it. • The request to change the location of culvert in to a leader way location. But the BOQ quantities are not enough to do it. And also technically it is not needed.
PO-3	119	107	12	<ul style="list-style-type: none"> • The request/suggestion is to reconstruct the existing culvert. But because of lack of the provision it cannot be accepted. • 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 minimum road width up to 4m. But in this project only existing width is rehabilitated. • The request/suggestion is to Increase the road width up to 5m and shoulder width 1m of either side. In this project there are no widening of roads. • The request/suggestion is to include a roundabout at 3-way junction. But the available space is not adequate.

Licenses

Table 01: Licenses - KU 01 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
Quarry	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	07.12.2018	06.06.2019	31.12.2017	31.12.2018 (Renewal in progress)	01.06.2018	31.05.2019
Crusher	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	19.07.2018	18.07.2019	31.12.2017	31.12.2018 (Renewal in progress)	N/A	
Asphalt Plants	Wadakada (Contractor), 200, Nawala road, Narahenpita, Colombo 05	02.08.2018	01.08.2019	31.12.2017	31.12.2018 (Renewal in progress)		
Batching Plants	N/A						

Table 2: Licenses - KU 02 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
Quarry	K.D.A.W., Wadakada	18.01.2018	17.01.2019	01.01.2018 (Renewal in progress)	01.01.2019 (Renewal in progress)	04.12.2018	03.12.2019
Crusher	K.D.A.W., Wadakada	29.09.2018	29.06.2019	01.01.2018 (Renewal in progress)	31.12.2018 (Renewal in progress)	N/A	
Borrow Pits	Dampitiya Estate	01.01.2019	05.04.2019	01.01.2019	31.12.2019	01.01.2019	31.12.2019
Asphalt plants	K.D.A.W , Neboda	09.07.2018	08.07.2019	30.06.2018 (Renewal in progress)	31.12.2018 (Renewal in progress)	N/A	
Concrete Batching Plants	K.D.A.W., Pothuhera	28.03.2018	28.03.2019	01.01.2018 (Renewal in progress)	31.12.2018 (Renewal in progress)		
Precast Yard	Batching plant & concrete block manufacturing industry (Karandeniya)	02.11.2018	01.11.2019	20.09.2018	19.09.2019		
Sand	Use crusher fines for the construction						

Table 3: Licenses - KU 03 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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: Licenses - KU 04 - 2018

Type	Name(s)	EPL		TL		IML	
		From:	To:	From:	To:	From:	To:
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	15.12.2017	14.12.2018	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.	02.03.2017	01.09.2018	02.03.2017	01.09.2018	02.03.2017	01.09.2018
Asphalt Plant	Pilassa.	16.09.2017	15.09.2018	16.09.2017	15.09.2018	N/A	

Table 5: Licenses - KU 05 - 2018

Type	Name(s)	EPL		TL		IML (GSMB)	
		From:	To:	From:	To:	From:	To:
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 6: Licenses - PU 01 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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				28.08.2018	27.10.2018
Asphalt Plants	Access Engineering PLC.	13.10.2018	12.10.2019	20.02.2018	31.12.2018	N/A	

Table 7: Licenses - PU 02 - 2018

Type	Name(s)	EPL		TL		IML (GSMB)	
		From:	To:	From:	To:	From:	To:
Quarry	V.V.K. Quarry, Pilassa, Mawathagama.	13.12.2017	12.12.2018	01.01.2018	31.12.2018	16.05.2018	15.05.2019
Crusher	V.V.K. Crusher Plant, Pilassa, Mawathagama.	15.12.2017	14.12.2018	01.01.2018	31.12.2018	N/A	
	Nawalanka Metal Crusher, Rasnayakapura.	18.10.2018	19.10.2019	01.01.2018	31.12.2018		
Borrow Pits	Palugahahena Borrow Pit, Sembukuliya, Mahakumbukkadaw ala.	09.01.2019	08.07.2019	N/A		09.10.2018	08.12.2018
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 8: Licenses - PU 03 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
Quarry	V.V Karunarathne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	13.12.2017	12.12.2018	17.01.2018	31.12.2018	16.05.2018	15.05.2019
Crusher	V.V Karunarathne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	15.12.2017	14.12.2018	17.01.2018	31.12.2018	N/A	
Burrow Pits	Dangasarekele, Thabbowa, Nattandiya.	07.12.2018	06.02.2019	(Renewal In process)		07.12.2018	06.02.2019
Asphalt Plant	V.V Karunarathne & company, Plikadawatta, Pilassa, Mawathagama, Kurunegala.	16.09.2018	15.09.2019	17.01.2018	31.12.2018	N/A	

Table 9: Licenses - AP 01 - 2018

Type	Name(s)	EPL		TL		IML	
		From:	To:	From:	To:	From:	To:
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 10: Licenses - AP 02 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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 11: Licenses - AP 03 - 2018

Type	Name(s)	EPL		TL		IMLG (SMB)	
		From:	To:	From:	To:	From:	To:
Quarry	Wajira Metal Crusher.	27.08.2018	26.08.2019	10.01.2018	31.12.2018	N/A	
Crusher	Wajira Metal Crusher.	27.08.2018	26.08.2019	10.01.2018	31.12.2018		
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
Asphalt Plants	Maga Engineering (Pvt), Ltd Dunuwattegama Forest, Kapugollegama.	13.10.2018	12.10.2019	20.02.2018	31.12.2018	N/A	

Table 12: Licenses - AP 04 - 2018

Type	Name	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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 13: Licenses - PO 01 - 2018

Type	Name	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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 14: Licenses - PO 02 - 2018

Type	Name(s)	EPL		TL		IML(GSMB)	
		From:	To:	From:	To:	From:	To:
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 15: Licenses - PO 03 - 2018

Type	Name(s)	EPL		TL Approval		IML (GSMB)	
		From:	To:	From:	To:	From:	To:
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

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	Safety issue on the culvert area.	White coated Guard stones constructed.	ID 55 (Ch.4+160)	No	No	Yes
	Road side Soil erosion	Rubble pitching applied	ID 50 (Ch. 5+070)	No	No	Yes
	Water Inundation	L Drain constructed	ID 36 (Ch. 1+410) ID 55 (Ch. 1+550)	No	No	Yes
	Road shoulder erosion and safety problem	Turfing has done, sign board fixing	ID 55 (Ch. 4+500)	No	No	Yes
	Road side Soil erosion	Retaining wall constructed	ID 98 (Ch. 1+950)	No	No	Yes
	Soil erosion and safety problem	Concrete shoulder & Guard stone constructed	ID 50 (Ch. 3+600)	No	No	Yes
	Safety problem	Road sign boards fixed at the bend	ID 50 (Ch. 3+250)	No	Yes	No
	Safety problem at the Bridge	Warning boards fixed	ID 50 (Ch. 3+740)	No	No	Yes
	Water logging during rainy season	By road access prepared	ID 34 (Ch.1+865/RHS)	No	No	Yes
	Soil erosion	Rip rap protection wall constructed	ID 34 (Ch. 2+060)	No	No	Yes
	Water inundation	Dish drain constructed	ID 34 (Ch. 2+350/LHS)	No	No	Yes
	Washing away the compacted	Hard shoulder constructed and	ID 34 (Ch. 6+150)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	shoulder and safety problem	white coated Guard stone constructed.				
	Water logging	House access constructed	ID 98 (Ch. 1+620)	No	No	Yes
	Water drainage system blocked and safety problem	Cleared both side of the road	ID 86 (Ch. 1+610)	No	No	Yes
	Safety problem in front of school	Road marking included	ID 76 (Ch. 0+150)	No	No	Yes
	Soil erosion	Shoulder constructed and turfed the road shoulders	ID 36 (Ch. 1+280/LHS)	No	No	Yes
	Washing out of the shoulder	Rubble pitching was done and Guard stone construction	ID 33 (Ch. 6+050)	No	No	Yes
	Blocked/disrupted drainages and accesses	Earth drains constructed and cleared the accesses	ID 97 (Ch.0+100/LHS), (Ch.1+833/LHS), (Ch.1+113/LHS) and (Ch.3+476/LHS)	No	No	Yes
	Environmentally damaged land areas where Stock pile situated	Stock pile yards rehabilitated	ID 97 (Ch.1+113/RHS), (Ch.1+113/RHS) and (Ch.2+000/RHS)	No	No	Yes
	Debris in the drains	Debris removed in drain	ID 97 (Ch.1+100/RHS)	No	No	Yes
	ABC Metal	ABC Metal pile removed	ID 97 (Ch.0+000/LHS)	No	No	Yes
	Remaining construction debris	Debris removed	ID 97 (Ch.0+260/ LHS), (Ch.1+835/LHS) and (Ch.3+955/RHS)	No	No	Yes
	Unsafe bend	Rumbled strips included on to the road.	ID 30 (Ch.2+400)	No	No	Yes
	Flooding area	Road is widened and retention walls constructed	ID 30 (Ch.2+400)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Water run off over the road	Earth drains constructed	ID 82 (Ch.1+700)	No	No	Yes
KU 02	Large amount of water flowing and couldn't be accommodated by Earth drains	Built up drains provided as a solution	ID 57 (Ch.3+940 to Ch.4+020/Both Side)	No	No	Yes
	Road was covered with flood water & embankment eroded	Safely barricaded immediately after flood & Hard shoulder with guide stones constructed as a long term solution	ID 41 (Ch.1+100 to Ch.1+410/Both Side)	No	No	Yes
	Culvert pipe damaged due to heavy water flow	Damaged pipe closed as immediate solution & culvert reconstructed	ID 41 (Ch.4+170)	No	No	Yes
	Dust evolution during material & other transportation process	Materials well covered during transportation & Sprinkled water in the dust areas	IDs 66 and 01 (Throughout the road)	No	No	Yes
	Environmentally damaged land areas where Stock pile situated	It changed as the place for Tree planting with using the stored productive soil	ID 102 (Ch.2+403)	No	No	Yes
	Soil erosion in the road shoulders	Steep embankment needed protection and therefore, Slope protected by turfing	ID 05	No	No	Yes
	Road maintenance work done by third party with muddy materials	Removed the contaminated soil and compacted with quality soil and proceeded construction works	ID 01 (Ch.10+000 to Ch.12+500)	No	No	Yes
	Uneven surface found in stockpile land which was cleared	Reinstated the land with excess soil to owner's satisfaction	ID 57 (Ch.2+700)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Debris found within the shoulder	Cleared the area and rehabilitated	ID 57 (Ch.1+844/LHS)	No	No	Yes
	Debris found in the Paddy area	Cleared the area and rehabilitated	ID75 (Ch.1+965/LHS) and (Ch.1+970/LHS)	No	No	Yes
	Disposal soil in front of the Buddha statue	Removed and restored	ID 102	No	No	Yes
	Church Wall cracked during ABC laying	Repaired and painted for owner's satisfaction	ID 57 (Ch.3+270/LHS)	No	No	Yes
	Dust generation affected the students of Sunday (Buddhist School at Temple) near Stock pile yard	Operation of stockpile on Sunday was stopped.	ID 102 (Ch.2+410/LHS)	No	No	Yes
	2 No. of trees were cut due to unavoidable reason	10 Nos. of Trees replanted	ID 67 (Ch.2+597.9/RHS) and (Ch.2+599.2/RHS)	No	No	Yes
	For personal safety problems	Usage of PPE(Personal Protective Equipments)	Throughout the road	No	No	Yes
	Traffic issue due to road closed for ABC laying	Sign boards and Flag man deployed	ID 05 (Ch.2+250)	No	No	Yes
	Earth material deposited over coconut trees	Safely cleared the area	ID 102 (Sri Meththarama Raja Maha Viharaya)	No	No	Yes
	Embankment eroded to a private land and into the house building	Constructed retaining wall at RHS and Built up drain in LHS	ID 43L (Ch.2+010 RHS)	No	No	Yes
	Overflowing of river from Ch.2+610 to Ch.2+680	Retaining wall was built	ID 67 (Ch.2+610 to Ch.2+680)	No	No	Yes
	Safety problem raise due to culvert	Implement the safety poles and signs	ID 05 (Ch.1+150)	No	No	Yes
	Safety problem occurred due to steam	Implemented the side railings and signs	ID 102 (Ch.1+740/LHS)	No	No	Yes
	Hazardous solid waste	Removed and dumped into relevant place	ID 102 (Ch.2+093/RHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Deposition of construction waste in unauthorized sites	Dumped into authorized place	ID 05 (Ch.2+990/ Both Side)	No	No	Yes
	Deposition of construction waste (Hume Pipe) in unauthorized sites and blocked drainage	Dumped into authorized place, removed the hume pipe and cleared the drainage	ID 102 (Ch.2+060/RHS)	No	No	Yes
	House access damaged due to construction activities	House access improvement at Old lady's house	ID 102 (Ch.2+050/LHS)	No	No	Yes
	Soil erosion	Turfed the road shoulder edges	ID 67 (Ch.2+790)	No	No	Yes
	Eroded due to heavy rains	Road improvement	ID 74 (Ch.1+000)	No	No	Yes
	Washed out the road	Grating constructed	ID 43 (Ch.2+026/LHS)	No	No	Yes
	Washed out the road	Turfed the road shoulder edges	ID 01 (Ch.3+850 to Ch.3+950)	No	No	Yes
	Soil eroded	Hard shoulder constructed	ID 01 (Ch.0+380)	No	No	Yes
	Road bank washed out	Retaining wall constructed	ID 43 (Ch.0+337)	No	No	Yes
	Damaged by flooding	Rubble pitched	ID 41 (Ch.0+840)	No	No	Yes
	Road instability	Causeway constructed	ID 46 (Ch.4+749)	No	No	Yes
	Eroded of the road	Rubble pitched	ID 46 (Ch.2+650 to Ch.3+050)	No	No	Yes
	Washed out the road	Hard shoulder constructed	ID 100 (Ch.0+000 to 0+050/Both side)	No	No	Yes
	Washed out road towards paddy area	Rubble pitched for rip rap construction	ID 46 (Ch.5+275 to 5+285/RHS)	No	No	Yes
	Overflowing through the house	Provided a proper house access	ID 74 (Ch.2+372/LHS)	No	No	Yes
KU 03	Embankment eroded	Embankment Protected using sand bags	ID 22 (Ch.10+275/LHS)	No	No	Yes
	Tree was fallen due to heavy rain	Protected tree fallen section using sand bags	ID 22 (Ch.12+644/LHS)	No	No	Yes
	Washed out the road	Drain Base Concreted to maintain stability of Embankment	ID 68 (Ch.3+085/LHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Washed out the road	Concreted the by road access	ID 22 (Ch.6+775/RHS)	No	No	Yes
	Land slide prone area, therefore Rock slide have occurred 3 years ago, then base failure is between these Chainage	Not done construction or development between these Chainage due to above matter	ID 37 (Ch.1+470 to Ch.1+530)	No	No	Yes
	Flooded at rainy days	Culvert reconstructed using 900mm Hume pipe after hydrological calculation	ID 71 (Ch.2+765) and ID 37 (Ch. 3+110)	No	No	Yes
	Road inundated due to culvert siltation and lead way blocking	Culvert reconstructed with catch pit LHS/ Lead away concreted for preventing the siltation and erosion	ID 71 (Ch.0+053)	No	No	Yes
	Dust and air polluted	Material covered during transportation	ID 71 (Ch.2+650)	No	No	Yes
	Construction material contaminated with the productive paddy land	Embankment filling programed after harvesting season	ID 84 (Ch.1+510 to Ch.1+670/RHS)	No	No	Yes
	Embankment eroded near the bridge	Gabion wall constructed for mitigating the impacts	ID 38 (Ch.7+085/RHS)	No	No	Yes
	Embankment eroded and drain siltation	Line drain constructed where the arising out wall of drain for covering bankside	ID 17 (Ch.1+210 to Ch.1+290)	No	No	Yes
	Embankment slipped	Gabion wall is being constructed for slope stabilization	ID 22 (Ch.3+300 to 3+330/LHS)	No	Being complied	No
	Sub base material contaminated in rain water and soil erosion	Covered sub base material suppressive tarpaulin	ID 22 (Ch.19+120)	No	No	Yes
	Safety problem	Establishment of storage yard with name board, barricaded	ID 68 (Ch.4+600/RHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Material wastage due to Inter logs removal while road construction	Inter logs removed and handed over Pradeshia Shaba for reusing	ID 37 (Ch.0+905 to 1+005)	No	No	Yes
	Soil washed away at the Disposal yard	Bund applied as retaining wall	ID 17 (Ch.3+100/RHS)	No	No	Yes
	Excavated soil disposal	Some quantity of excavated soil used for agriculture purposes	ID 71 (Ch.1+970/LHS)	No	No	Yes
	Dust generated due to Construction materials	Watered at ABC laying as dust suppressive method and compaction purposes	ID 38 (Ch.5+150) and ID 22 (Ch.8+210)	No	No	Yes
	3 Trees removed due to road improvement	25 Trees planted at Boyagane Maha Vidyalaya cooperating with students	ID 68 (Ch.0+090/LHS)	No	No	Yes
	11 Trees removed due to road improvement	25 Trees planted at Kanawa Vidyalaya	ID 22 (Ch.10+850/LHS)	No	No	Yes
	1 Tree removed	10 Trees planted at Watareka Vidyalaya	ID 17 (Ch.2+850/RHS)	No	No	Yes
	Pollution of existing well water	Well covered by suppressive tarpaulins	ID 71 (Ch.1+670/LHS)	No	No	Yes
	Health issues while working	First aid box establishment in site office	ID 84 (Ch.0+055/RHS)	No	No	Yes
	Occupational safety issues at concreting work	PPEs included and strictly advised to use it in the Toolbox meetings	ID 17 (Ch.4+345) and ID 68 (Ch.4+732)	No	No	Yes
	Occupational safety at machinery operation	PPEs included and strictly advised to use it in the Toolbox meetings	ID 71 (Ch.0+520) and ID 17 (Ch.0+000/LHS)	No	No	Yes
	Occupational safety at ABC laying	PPEs included and strictly advised to use it in the Toolbox meetings	ID 37 (Ch.1+150)	No	No	Yes
	Traffic conjunction due to road	Traffic management while	ID 68 (Ch.0+940)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	works	retaining wall construction				
	Road closing for Asphaltting works created transportation problems	Applied notices and provide alternative access	ID 22 (Ch.0+000)	No	No	Yes
	Roads closing and safety problem	Road safety and convenient notices included	ID 17 (Ch.0+000)	No	No	Yes
	Proposed to remove a Bulu Tree for road improvement	Bulu Tree was protected by shifting center line to LHS by 0.45m	ID 68 (Ch.2+705/RHS)	No	No	Yes
KU 04	Drain has blocked due to debris	Cleaned the drain and disposed to authorized places	ID 11 (Ch.2+630/RHS)	No	No	Yes
	Soil piles scattered in the unauthorized places	Soil piles to be Removed to authorized places	ID 11 (Ch.2+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.2+930)	No	No	Yes
	Debris and unnecessary Asphalt parts in the road sides	Cleaned and disposed into authorized places	ID 11 (Ch.2+933 Both side)	No	No	Yes
	Debris and unnecessary Asphalt parts	Cleaned and disposed into authorized places	ID 11 (Ch.2+933)	No	No	Yes
	Removed Hume pipes scattered in the Paddy areas	Disposed into relevant places	ID 92 (Ch.2+790/RHS)	No	No	Yes
	Debris scattered in many places	Cleaned and disposed into authorized places	ID 92 (Ch.2+816/RHS), (Ch.7+860/Both side), (Ch.7+880/RHS), (Ch.1+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 rising required by Sub Base material	ID 16 (Ch.0+225)	No	No	Yes
	Water logged area	Road raised by using Sub Base	ID 16 (Ch.0+281)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		material				
	Inundated area	Deepened the earth drain in both sides	ID 16 (Ch.1+200)	No	No	Yes
	Inundated area	Road raised up to suitable height	ID 16 (Ch.1+940 to Ch.2+200)	No	No	Yes
	Flooded area	New causeway constructed	ID 16 (Ch.5+700 to 7+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 9Ch.0+000 to 7+500)	No	No	Yes
	To prevent soil compaction in the adjoining productive lands	Protected the adjoining productive lands	ID 16 (Ch.0+820/RHS, Ch.1+360/LHS) and (Ch.1+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.3+474)	No	No	Yes
	Tank spill water overflow through the road	Culvert and drain cleared	ID 90 (Ch.4+000)	No	No	Yes
	Tank spill water overflow through the road	Causeway reconstructed	ID 90 (Ch.4+350 to Ch.4+450)	No	No	Yes
	water stagnated	Culvert to be cleared	ID 90 (Ch.5+300)	No	No	Yes
	Flooded area	Culvert constructed and drains	ID 90 (Ch.5+400 to Ch.5+450)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		cleared				
	Flooded area	Road raised	ID 90 (Ch.5+750 to Ch.5+900)	No	No	Yes
	Water flow over the road	Pavement improved	ID 90 (Ch.6+600 to Ch.6+900)	No	No	Yes
	Flooded area	Proposed concrete pavement	ID 90 (Ch.9+500 to Ch.9+520)	No	No	Yes
	Water flow 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. 1+250 to Ch.1+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.0+000 to Ch.4+030)	No	No	Yes
	Tank water leaked to the road	Apply geo textile and constructed sub surface drain	ID 96 (Ch.3+109 to Ch.3+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.1+265 - Preschool), (Ch.1+300 - Temple) and (Ch.1+470 - School)	No	No	Yes
KU 05	Debris scattered all over the road sides	Cleaned site after construction	ID 70 (Ch.2+852)	No	No	Yes
	Water stagnated during the rainy Season	Road profile Raised	ID 99 (Ch.1+200) and (Ch.0+800 to Ch.1+200)	No	No	Yes
	Water Run off the road during the rainy Season	Road raised, Culvert widened and Reconstructed	ID 24 (Ch.0+330)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Temporary losses of home access due to embankment cut	Provision of temporary access by filling home access with gravel	ID 99 (Ch.1+065/RHS)	No	No	Yes
	Obstructed the access to house due to construction	Provision of home access by filling the soil	ID 26 (Ch.1+205)	No	No	Yes
	Prime wash off due to unpredicted rain	Cleared the prime	ID 24 (Ch.0+980)	No	No	Yes
	Road surface became muddy	Removed the mud and maintained	ID 61 (Ch.1+580)	No	No	Yes
	Road surface became muddy	Removed the mud and maintained	ID 62 (Ch.0+180)	No	No	Yes
	Breakage of Hume pipe due to vehicle transportation to Stock yard and water stagnate	Replaced the Hume pipe	ID 61 (Ch.3+470)	No	No	Yes
	Topsoil discharged to the nearby paddy field	Removed the top soil from the paddy land	ID 99 (Ch.0+870)	No	No	Yes
	Dust generated during Sub base filling of the Road	Water sprinkled to the roads	ID 61 (Ch.4+700)	No	No	Yes
	Dust emission of by-road	Water sprinkled to the roads	ID 26 (Ch.0+000 to 0+300)	No	No	Yes
	Dust emission	Water sprinkled to the roads	ID 62 (Ch.2+270)	No	No	Yes
	Removed Some trees due to construction	Tree planting program occurred in Naramana College	ID 62 (Ch.0+180/LHS)	No	No	Yes
	Loss of access due to Asphalt layering	Proposed alternative roads to manage daily traffic flow	ID 26	No	No	Yes
	Loss of access due to construction of new culvert	Arranged a by road	ID 99 (Ch.3+080)	No	No	Yes
	Culvert reconstruction & arrange by-pass road	Completed the culvert reconstruction & restored the by-road	ID 99 (Ch.3+930)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Lack of safety due to old Barricading	Renewed the barricading and improved safety	ID 99 (Ch.1+785)	No	No	Yes
	Loss of access due to Asphalt layering	Safety Arrangement done for Asphalt laying and Proper traffic diversion	ID 24 (Ch.1+370)	No	No	Yes
	Road closed due to construction	Fixed Barricades and proper traffic diversion	ID 26 (Ch.0+000)	No	No	Yes
	Shattered Barricading	Re-Fixed the Barricades	ID 62 (Ch.2+250)	No	No	Yes
	Drain line was blocked	Cleaned the Drain line	ID 61	No	No	Yes
	Deep holes and muddy places on the road	Routine maintenance done	ID 29	No	No	Yes
North Western Province (Puttalam)						
PU 01	Safety problems	Barricaded the on-going culvert construction area Removed the ABC	ID 43 (Ch.4+430)	No	No	Yes
	Safety problems	Back filled the eroded area	ID 43(Ch.6+980)	No	No	Yes
	Lead away issues	Cleaned the lead away path	ID 43 (Ch.4+430)	No	No	Yes
	Road debris scattered everywhere	Removed debris to the approved disposal yard	ID 01 (Ch.11+991)	No	No	Yes
	Debris dumped in to the Paddy field	Removed debris to the approved disposal yard	ID 05 (Ch.3+436)	No	No	Yes
	Excavated Debris pile at the road edges	Removed debris to approved disposal yard	ID 14 Section A (Ch.0+350)	No	No	Yes
	Debris issues	Remove debris to approved disposal yard	ID 14 (Ch 0+198)	No	No	Yes
	Water stagnated in to the Tar contained barrel	Sealed the barrel	ID 11(Ch.6+832)	No	No	Yes
	Wasted the construction material	Removed ABC and re-used	ID 01 (Ch.4+300)	No	No	Yes
PU 02	Dust Issues	Reduced the vehicle speed	ID 04 (Ch.00+000 to Ch.01+000)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		Water Sprinkled to the road	and ID 26 (Ch.03+340)			
	Safety Issues on the culvert	Properly barricaded the culvert	ID 03 (Ch.01+660)	No	No	Yes
	Stock Pile yard - Dust spreading Issues	Barricaded and covered the Stock yard	ID 03 (Ch.02+419)	No	No	Yes
	Safety Issues on the culvert	Barricaded culvert	ID 04 (Ch.11+582)	No	No	Yes
	Road user's safety issues	Provided traffic controller (Flagmen)	ID 26 (Ch.03+110)	No	No	Yes
PU 03	Road debris on the shoulder	Removed debris into approved disposal yard	ID 16 (Ch.1+420 to Ch.1+440)	No	No	Yes
	Safety Issues on the culvert	Barricaded the culvert properly	ID 17 (Ch.3+552)	No	No	Yes
	Safety Issues on the culvert	Barricaded the culvert properly	ID 33 (Ch.1+643)	No	No	Yes
	Safety Issues on the culvert	Barricaded the culvert properly	ID 40 (Ch.0+123)	No	No	Yes
	Safety Issues on the culvert	Barricaded the culvert properly	ID 42 (Ch.1+095)	No	No	Yes
North Central Province (Anuradhapura)						
AP 01	Safety problem at the culvert area	Proper Safety Arrangements done during Culvert construction	ID 10 (Ch.2+222)	No	No	Yes
	Road traffic problem	Asphalt layered after (2-4 hours later) and Water sprayed at the Junction soon after opening the road	ID 01 (Ch.8+778 to Ch.8+800)	No	No	Yes
	Stock pile yard	Stock pile yard was rehabilitated	Road 41(Ch. 4+220)	No	No	Yes
	Shoulder eroded	Turfing done for eroded locations	ID 39 (Ch.0+400 to Ch.4+470 Both side)	No	No	Yes
	Water stagnated	Earth drain was facilitated	Id 39 (Ch. 0+000 to Ch.4+470)	No	Yes	No
	Damaged to common properties(fencing pole at the house)	Agreed to repair the fencing pole	ID 39 (Ch.0+840 to Ch.0+875/RHS)	Yes	No	No
	Flood impact	Reconstructed the culvert	ID 46 (Ch.1+745)	No	No	Yes
	Burrow pits should be rehabilitated to satisfy conditions.	Burrow pits rehabilitated for plantation purposes.	ID 43(Ch.0+334/LHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
AP 02	Flooding issue	U-drain was facilitated	ID 67 (Ch.1+745t to Ch.1+785 LHS)	Yes	Yes	No
	Safety problem	Proper sign boards were fixed	ID 28 (Ch. 0+000 to Ch.4+780)	No	No	Yes
	Shoulder erosion areas	Concrete shoulders were facilitated	ID 06 (Ch.0+060 to Ch.0+090/RHS), (Ch.0+540 to Ch.0+570/RHS), (Ch.1+550 to Ch.1+600/LHS), (Ch.3+060 to Ch.3+230 Both side), (Ch.3+325 to Ch.3+358 Both side) and (Ch.3+396)	No	No	Yes
	Debris scattered in some places	Debris removed and disposed into authorized places	ID 66 (Ch.0+690 to Ch.0+970/LHS), (Ch.2+650 to Ch.2+670 Both side), (Ch.3+760 to Ch.3+800 Both side), (Ch.6+650 to Ch.6+655/RHS), (Ch.6+960 to Ch.6+965/RHS), (Ch.9+750 to Ch.9+800/RHS) and (Ch.10+100 to Ch.10+120/RHS)	No	No	Yes
	Rock boulders along the road side	Rock boulders removed into the approved disposal yards	ID 19 (Ch. 2+040/RHS) and (Ch.2+265/LHS)	No	No	Yes
AP 03	Traffic and road safety	Road safety sign boards were fixed	ID 24 (Ch.3+150)	No	No	Yes
	Stock pile yards	Rehabilitated according to the specifications	ID 09 (Ch. 2+408/RHS)	No	no	Yes
	Drainage issue	Earth drain Constructed along the	ID 24 (Ch.0+100/LHS)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
		road				
	Water stagnated area	Road Improved by implementing shoulders	ID 24 (Ch.1+150)	No	No	Yes
	Water stagnated area	Road improvement done with culvert	ID 24 (Ch.6+800/LHS)	No	No	Yes
	Soil and silt in paddy land due to rain and flood (Productive land silt by soil)	Removed silt and soil from the Paddy land	ID 60	No	No	Yes
	Flood impact	Proposed a new culvert	ID 24 (Ch.1+921)	No	No	Yes
	Material can spill when transport	Cover the trucks using canopies and tarpaulin	ID29 (Ch.0+650/LHS)	No	No	Yes
	Mc30 and CSS1 tar can be contaminated with the productive soil	Well storage and distributed properly	Main yard (A12- Ch.95+800/LHS)	No	No	Yes
	Trees to cut when road construction	Trees planted	Siyabalagaswewa School (A12- Ch.96+100/LHS)	No	No	Yes
AP 04	Erosion issue	Eroded location was turfed	ID 59 (Ch.2+530 Both sides)	No	No	Yes
	Debris scattered in some places	Debris removed and disposed into authorized places	ID 57 (Ch.0+200/LHS; Ch.3+950/RHS and Ch.5+085/LHS)	No	No	Yes
	Water stagnated area	Stagnated water removed by clearing the Earth drains	ID 56 (Ch.0+260/LHS, Ch.0+795/RHS, Ch.0+275 to Ch.0+290 and Ch.0+466 to Ch.0+510)	No	No	Yes
	Culvert blocked	Culvert has cleared and lead away also cleared	ID 53 (Ch.0+490 Both sides)	No	No	Yes
North Central Province (Polonnaruwa)						
PO 01	Road side shoulder eroded	Concrete shoulder & drains constructed.	ID 13 (Ch.0+105)	No	No	Yes
	Scattered construction waste on the shoulders	Disposed the construction waste to pre- designated disposal sites	ID 01 (Ch.1+100)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	Stocked construction materials away from the stock pile yards' land	Put away from the road sides to avoid wash away	ID 20 (Ch.2+500)	No	No	Yes
	Blocked irrigation tunnels due to erosion & siltation	Cleaned the tunnels	ID 02 (Ch.2+300)	No	No	Yes
PO 02	Slope erosion & flooding	Rock filling was done	ID 36 (Ch.1+100)	No	No	Yes
	Shoulder erosion	Did turfing	ID 55 (Ch.0+000 to Ch.4+560)	No	No	Yes
	Road Safety issue @ the beginning of the road	Placed sign boards adequately & did road marking	ID 42 (Ch.0+000)	No	No	Yes
	Safety issue near the shopping area	Placed sign boards adequately & did road marking	ID 24 (Ch.3+200)	No	No	Yes
	Safety on the road near the school	Placed sign boards & did road marking	ID 45 (Ch.0+800)	No	No	Yes
	Safety problem occurs due to not using PPE	Ensured the laborers to use PPE during working hours	ID 46 (Ch.2+500)	No	No	Yes
	Scattered construction waste on the shoulders	Disposed the construction waste to pre- designated disposal sites	ID 46 (Ch.0+000 to Ch.3+710)	No	No	Yes
	Construction materials scattered on the shoulders	Disposed the construction waste to pre- designated disposal sites	ID 55 (Ch.0+000 to Ch.+560)	No	No	Yes
	Blocked drains & lead a ways by construction debris	Disposed the debris into pre-designated disposal yards & cleaned the lead a ways & drains	ID 40- Phase II (Ch.0+100)	No	No	Yes
	Safety problem near the bridge	Barricaded properly & put warning sign boards	ID 37 (Ch.2+500)	No	No	Yes
	Scattered construction materials on the shoulder	Disposed the construction debris to authorized disposal sites	ID 33 (Ch.5+100)	No	No	Yes
	Excavated soil dumped into the nearby paddy lands	Removed the soil	ID 55 (Ch.3+300)	No	No	Yes
	No warning sign boards & barricading near the constructions	Erected warning sign boards	ID 33 (Ch.6+700)	No	No	Yes
	Dust generates during material transport	Covered the vehicles by tarpaulin	ID 29 (Ch.2+500)	No	No	Yes
	Dust generates during	Sprinkled water	ID 29 (Ch.2+700)	No	No	Yes

Contract Package	Issue(s)	Mitigation measures taken by Contractor	Road No./ Location	Status		
				Not complied	Partly complied	Complied
	constructions					
	Blocked drains & accesses	Temporary accesses given & cleaned the drains	ID 72- Phase I(Ch.2+300)	No	No	Yes
	No barricading	Did barricading	ID 41 (Ch.0+300 to Ch.0+600)	No	No	Yes
	No warning sign boards @ the entrance of the road	Erected warning sign boards	ID 41 (Ch.0+000)	No	No	Yes
	Road blocked due to constructions	Alternative land used to transport temporarily	ID 29 (Ch.2+500)	No	No	Yes
	Dust generated during constructions	Sprinkled water	ID 46 (Ch.2+500)	No	No	Yes
	Blocked irrigation canal by dumping excavated soil	Cleaned the irrigation canal	ID 55 (Ch.3+900)	No	No	Yes
	Excavated soil dumped into the adjoining paddy land	Removed the soil	ID 72-Phase I (Ch.2+900)	No	No	Yes
	Unusable debris dumped into the drains	Cleaned the drains	ID 35 (Ch.2+500)	No	No	Yes
	Laborers do not use PPEs	Ensured the laborers to use PPE during working hours	ID 47 (Ch.1+500)	No	No	Yes
	Safety issues due to no sign boards & road markings	Placed sign boards & did road markings	ID 49 (Ch.0+900)	No	No	Yes
	Safety issues due to no warning sign near deep excavations	Placed sign boards & did road markings	ID 46 (Ch.2+900)	No	No	Yes
PO 03	No road markings	Did road markings	ID 65 (Ch.1+200)	No	No	Yes
	Shoulder erosion	Did turfing	ID 57 (Ch.0+000 to Ch.12+000)	No	No	Yes
	Embankments erosion	Constructed a retaining wall	ID 66 (Ch.8+300)	No	No	Yes
	No barricading to the toe wall	Barricaded	ID 71 (Ch.0+580)	No	No	Yes
	No safety along the lake	Established guard stones	ID 62 (Ch.3+500)	No	No	Yes

Table of Tree removal and Tree re- planting

Contract Package	No. of Trees to be removed	No. of Trees removed	No. of Trees to be planted	No. of Trees re- planted
KU1	68	66	198	266
KU2	04	02	06	10
KU3	17	13	39	60
KU4	05	00	00	12
KU5	09	06	18	87
PU1	11	02	06	52
PU2	16	07	21	55
PU3	03	03	09	10
AP1	07	03	09	100
AP2	74	27	81	148
AP3	61	33	99	152
AP4	11	08	24	111
PO1	263	56	168	170
PO2	09	07	21	60
PO3	70	06	18	250
Total	628	239	717	1543