

Environmental Monitoring Report

Project Number: 47273-004
47273-005
Annual Report - Annexures
January to December 2017

SRI: Integrated Road Investment Program

– Tranches 2 & 3

PIC 03 – Sabaragamuwa, Central Provinces and Kaluthara District

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

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Annexure:1

Circular no 2/2015 issued by Ministry of Mahaweli development and environment for Soil and Gravel excavation

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| 1. கனகசபைத் துருவகம் | கோய், து.கோ.க. |
| 2. கருவாசலம் துருவகம் | கோய், து.கோ.க. |
| 3. கருவாசலம் | கோய், து.கோ.க. கரு.கோ.க. |
| 4. கனகசபைத் துருவகம் கருவாசலம் கருவாசலம் | கோய், து.கோ.க. கரு.கோ.க. |
| 5. கனகசபைத் துருவகம் கருவாசலம் கருவாசலம் | கோய், து.கோ.க. கரு.கோ.க. |
| 6. கனகசபைத் துருவகம் | கோய், து.கோ.க. கரு.கோ.க. |
| 7. கனகசபைத் துருவகம் | கோய், து.கோ.க. கரு.கோ.க. |
| 8. கனகசபைத் துருவகம் | கோய், து.கோ.க. கரு.கோ.க. |
| 9. கனகசபைத் துருவகம் | கோய், து.கோ.க. கரு.கோ.க. |



உறுதிப்படுத்தப்பட்ட நாள் : 19/07/2013

ಇದೇ ವಿಧವಾಗಿ ಇತರರನ್ನು ಕೂಡ ಕಳೆದುಕೊಳ್ಳುವುದು

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2015.11.19 දිනැති පත අංක: 02/08/10/ඇ.183 (අංක
සංවර්ධිත සංවර්ධන හා සේවය අමාත්‍යාංශයේ ලේකම්වරයා විසින් සකසන ලද)
සහ සංවර්ධන කැණීම් පිළිබඳ විකුණු තීරණ ප්‍රකාශනයක්

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4. අදාළ ක්ෂේත්‍ර පරිසරයේ පවතින අනවසරයෙන් වන විනාශය නිවැරදි කළයුතුය. අදාළ ක්ෂේත්‍රයේ අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.
5. ප්‍රදේශයේ ප්‍රධාන සම්පත් පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය. අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.
6. ප්‍රදේශයේ ප්‍රධාන සම්පත් පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය. අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.
7. ප්‍රදේශයේ ප්‍රධාන සම්පත් පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය. අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.
8. ප්‍රදේශයේ ප්‍රධාන සම්පත් පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය. අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.
9. 2019.10.30 වන දින ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය. අනවසරයෙන් වන විනාශය පිළිබඳව ප්‍රධාන නිලධාරියාගේ අනුමැතියෙන් පමණක් කළ හැකිය.

தமிழக அரசு

2013.12.01

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2) $\text{H}_2\text{O} + \text{H}_2\text{SO}_4 = \text{H}_3\text{O}^+ + \text{HSO}_4^-$

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Annexure: 2

Status of license and approval of the contracts as per the 31 of December 2017

2.1 License and approvals KA1

Type	Name	EPL/EA		TL		IML	
		From	To	From	To	From	To
Quarry Plant	Quarry 1	22/07/17	21/07/18	01/01/17	31/12/17	10/10/17	09/10/18
	Quarry 2	10/03/17	09/03/18	18/01/17	31/12/17	Pending	
Crusher Plant	Crusher 1	08/05/17	07/05/18	18/01/17	31/12/17	NR	NR
	Crusher 2	27/04/17	26/04/18	18/01/17	31/12/17	NR	NR
Borrow Pit	Barrow pit 1	12/07/17	11/07/18	NR	NR	Pending	
	Barrow pit 2	27/12/16	26/12/17	NR	NR	Renewal Pending	
Asphalt Plant	Asphalt plant 1	20/10/17	19/10/18	18/01/17	31/12/17	NR	NR
	Asphalt plant 2	16/06/17	15/06/18	25/01/17	31/12/17	NR	NR
	Asphalt plant 3	05/02/17	04/02/18	19/01/17	31/12/17	NR	NR
Batching Plant	Batching Plants	11/03/16	10/03/19	26/01/17	31/12/17	NR	NR

NR = Not Required

1.2 License and approvals KA2

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Quarry Plant	Sierra Quarry North Wedahetawatte, Galaha	Pending		18/01/2017	31/12/2017	24/05/2016	23/05/2017
Crusher Plant	Sierra Crusher Plant New Pupuressa Road, Galaha	7/4/2016	26/04/2017	18/01/2017	31/12/2017	NR	NR
		8/5/2016	7/5/2017				
Borrow Pit	Sierra Borrow Pit Puhudalepathana Pellapitiya North	Environmental Clearance issued on 20/05/2016		NR	NR	2/9/2016	1/9/2017
Asphalt Plant	Sierra Asphalt Plant, New Pupuressa Road, Galaha	20/10/2016	19/10/2017	18/01/2017	31/12/2017	NR	NR
Batching Plant	Sierra Ready-mix Batching Plant (PVT) Ltd; Maligatenne, Gurudeniya	11/3/2016	10/3/2019	26/01/2017	31/12/2017	NR	NR
		25/05/2016	24/05/2017	NR	NR	NR	NR
	Concrete Batching Plant at Kurunduwatte	25/05/2016	24/05/2017	NR	NR	NR	NR

NR = Not Required

2.3 License and approvals KA3

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Crusher Plants	Sierra Crusher Plant, Galaha	5/8/2017	5/7/2018	1/25/2017	12/31/2017	NR	NR
	Williams Woods Lee Crusher, Rideegama	3/15/2017	3/14/2018	3/20/2017	12/31/2017	NR	NR
Asphalt plants	Edward and Christie Asphalt Plant, Giriulla Road, Badalgama	4/10/2017	4/9/2018	2/10/2017	12/31/2017	NR	NR
	Access Engineering Asphalt plant, Mailapitiya	6/16/2017	6/15/2018	1/25/2016	12/31/2017	NR	NR
Concrete Batching Plants	Selltec Redimix Plant, Aladeniya	1/11/2017	1/10/2018	6/12/2017	12/31/2017	NR	NR

NR = Not Required

2.4 License and approvals NE1

Type	Section	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Quarry	Chandupa , Waththegedara, Madulla	2017.07.18	2018.07.29	2017.01.01	2017.12.31	2016.12.06	2017.12.06
Crusher	Roselka Industries (Pvt) Ltd, No 91, Bagathuluwa, Ginigathhena.	2017.11.01	2018.10.31	2017.01.01	2017.12.31	NR	
	Weerasekara Metal crusher	2017.03.26	2018.03.25	2017.01.01	2017.12.31	NR	
Borrow pit	Co-operative land Borrow pit - Rikillagaskada	License Obtaining in progress					
	Mr.Bandula Rohana	Obtained approval from Divisional Secretary			Quantity less than 35 cubes		
Asphalt plant	Access, Mailapitiya	2017.06.12	2018.06.11	2017.01.01	2017.12.31	NR	
Batching Plants	SIERRA, Harasbedda	2016.10.06	2019.10.05			NR	

NR = Not Required

2.5 License and approvals NE2

Type	Section	EPL		TL	
		From	To	From	To
Crusher		01.11.2017	31.10.2018	01.01.2018	31.12.2019
Borrow pit		Not a borrow pit , only the removed soil from over burden of the quarry site at Kotagala			
Asphalt plant		22.07.2017	21.07.2018	01.01.2018	31.12.2019
Batching Plant		17.02.2017	16.02.2018	01.10.2018	31.12.2019

2.6 License and approvals NE3

Type	Name /Location	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Crusher	Roselka Industries (Pvt) Ltd, Kudaoya, Hatton.	01/11/2017	31/10/2018	01/01/2018	31/12/2018	NR	NR
Borrow pit	Sierra Construction (Pvt) Ltd. Kithulgala	14/08/2017	13/08/2018	NR	NR	05/01/2018	4/03/2018
Asphalt plant	Sierra Construction (Pvt) Ltd. Kudaoya.	22/07/2017	21/08/2018	01/01/2018	31/12/2018	NR	NR
Batching Plants	Sierra Construction (Pvt) Ltd. Badupola , Ginigathena.	09/03/2016	08/03/2019	NR	NR	NR	NR

NR = Not Required

2.7 License and approvals MA1

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Quarry & Crusher Plant	Quarry & Crusher-KDESH Wariyapola	2017/03/05	2018/03/07	Applied for renewal		Applied for renewal	
Borrow Pit	Burrow pit – Mahayay watta,Kaudupelella	Applied for renewal		Applied for renewal		2017/01/25	2018/05/24
Asphalt Plant	Asphalt plant/KADSH	2017/10/07	2018/03/07	Applied for renewal		NR	

NR = Not Required

2.8 License and approvals MA2

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Crusher Plant	E&C Crusher Plant	2017.07.07	2018.07.07	2017.01.21	2018.01.21	NR	NR
Borrow Pit	Moragollewa Barrow pit	2017.05.02	2018.05.02	2017.08.03	2017.12.24	NR	NR
Asphalt Plant	E & C Asphalt Plant - Mihinthale	2017.04.08	2018.04.07	2017.02.23	2017.12.31	NR	NR

NR = Not Required

2.9 License and approvals MA3

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Crusher Plant	Hebarawa Metal Crusher	09/07/2016	08/07/2017 (Applied for new license)	23/01/2017	31/12/2017	10/01/2017	09/01/2018
Asphalt Plant	Diulapitiya CML Asphalt plant	05/08/2017	04/08/2018	11/11/2017	31/12/2018	NR	NR
	Hettipola Asphalt Plant	07/09/2017	06/09/2018			NR	NR
Batching Plant	Wilgamuwa CML batching plant	07/09/2017	06/09/2018			NR	NR

NR = Not Relevant

2.10 License and approvals KE1

Type	Name	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Crusher		15.09.2017	14.09.2018	09.02.2017	31.12.2017	NA	NA
Asphalt plant		16.03.2017	15.03.2018	09.02.2017	31.12.2017	NA	NA
Borrow Material		NA	NA	NA	NA	NA	NA

NR = Not Required

2.11 License and approvals KE2

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Quarry		07/05/2017	06/05/2018	05/03/2016	31/12/2017	21/07/2017	20/07/2018
Crusher		30/1/2017	29/1/2018	03/02/2017	31/12/2017	NR	NR
Burrow pit (From supplier)		17/5/2017	16/5/2018	01/01/2017	31/12/2017	15/06/2017	14/06/2018
Asphalt plant		21/8/2017	20/8/2018	27/01/2017	31/12/2017	NR	NR
Batching Plants		3/8/2017	2/8/2018	03/02/2017	31/12/2017	NR	NR

NR = Not Relevant

2.12 License and approvals KE3

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Quarry		7/5/2016	Apply for	3/2/2017	31/12/2017	12/6/2017	31/12/2016
Crusher		31/1/2016	30/1/2017	1/1/2016	31/12/2017	NR	NR
Borrow pit		Applied for special approval for iRoad project					
Asphalt plant		22/08/2016	21/08/2017	17/ 1/2017	31/ 12/2017	NR	NR
Batching Plants		3/8/2017	2/8/2018	3/2/2017	31/12/2017	NR	NR

NR = Not Relevant

2.13 License and approvals R1

Type	Section	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Quarry		24.06.2017	23.06.2018	2017		31.05.2107	30.05.2018
Burrow Pit		03.01.2017	02.01.2018	2017		13.04.2017	02.01.2018
Crusher		15.09.2017	14.09.2018	2017		NA	NA
Asphalt plant		16.03.2017	15.03.2018	2017		NA	NA
Batching Plants		17.03.2017	16.03.2018	2017		NA	NA

2.14 License and approvals R2

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Quarry Balangoda		29.06.2016	27.06.2017 (Requested for the License)	04.01.2017	31.12.2017	27.06.2016	26.06.2017 (Requested for the License)
Crusher Balangoda		03.10.2016	02.10.2017 (Requested for the License)	06.01.2017	31.12.2017	NR	NR -
Burrow pit Balangoda		10.08.2016	09.08.2017 (Requested for the License)	13.12.2017	31.12.2017	25.10.2016	08.08.2017 (Requested for the License)
Asphalt plant Naboda		16.03.2017	15.03.2018	09.02.2017	31.12.2017	NR	NR

NR = Not Required

2.15 License and approvals R3

Type	Section	Place	EPL		TL		IML	
			From	To	From	To	From	To
Quarry		Thudugala	2017/2/22	2018/2/21	2017/2/1	2017/12/31	2017/02/13	2018/02/12
Crusher		Thudugala	2017/1/18	2018/1/17	2017/2/1	2017/12/31	2017/02/13	2018/02/12
Burrow pit		Kalawana	2017/09/26	2018/09/25	N/R	N/R	2017/09/19	2018/09/18

2.16 License and approvals KL1

Type	Section	EPL		TL		IML	
		From	To	From	To	From	To
Borrow Pit	Borrow pit	15.06.2017	14.06.2018	N/A	N/A	14.12.2017	13.03.2018
Quarry Plant	Quarry	10.06.2017	09.06.2018	01.01.2017	31.12.2017	22.05.2017	21.05.2018
Crusher Plant	Crusher	23.08.2017	22.08.2018	01.01.2017	31.12.2017	N/R	
Asphalt Plant	Asphalt (Maga)	07.06.2017	06.06.2018	01.01.2017	31.12.2017	N/R	
	Asphalt (Olympus)	19.02.2017	18.02.2017	09.01.2017	08.01.2018	N/R	
Batching Plant	Batching (Maga)	Pending	Pending	01.01.2017	31.12.2017	N/R	
	Batching (Access)	11.07.2017	10.07.2018	01.01.2017	31.12.2017	N/R	
	Batching (Keangnam)	24.04.2017	23.04.2018	25.01.2017	31.12.2017	N/R	

NR = Not Required

2.17 License and approvals KL2

Type	Name	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Metal Quarry	Olympus	2017.09.23	2018.09.22	03 .01.2018	2018.12.31	2017.10.23	2018.10.22
Crusher	Olympus	2017.12.28	2018.05.28	03.01.2018	2018.12.31	N/R	N/R
Asphalt plant	Olympus	2017.02.19	2018.02.18	03.01.2018	2018.12.31	N/R	N/R

N/R =Not Required

2.18 License and approvals KL3

Type	Name	EPL		TL		IML(GSMB)	
		From	To	From	To	From	To
Crusher/Quarry	Bandaragama	23.09.2017	22.09.2018	Renewal in progress		23.10.2017	22.10.2018
Asphalt plant	- Do –	19-02-2017	18-02-2018	Renewal in progress		N/R	N/R
Batching plant	Homagama	19-12-2017	18.12.2018	Renewal in progress		N/R	N/R

NR = Not required

Annexure 3

Sample of Monthly Progress Report

December 2017

KA3

Integrated Road Investment Project - Kandy District**Monthly Progress Report****CONTRACT PACKAGE - RDA/ADB/IROAD (CP)/NCB/CP-RR (KA3)****For the Month of December - 2017****Environment, social and safety information and compliances****1. Summary of weather condition**

Station	Weather Condition		
	Dry (No. of Days)	Wet (No. of Days)	
		Rain (1-10 mm)	Heavy Rain (10mm)
Hanthana	21	10	-
Kasawaththa	24	6	1
Dedunupitiya	25	3	3
Mahakanda	21	10	-
watagoda	20	2	1
Poojapitiya	24	5	2

2. Summary of road construction activities

Road ID	Not yet Started	Survey	Activities carried out										Completed
			Clearing and Grabbing	Excavation for widening	Embankment for widening	Sub-base for widening	Structures construction	Shoulder Construction	ABC laying	Priming	Asphalting	Pavement Concreting	
5		√	√	√		√	√		22%				
6		√	√	√	√	√	√	√	93%	82%	88%		
7		√	√	√	none	√	√	√	√	√	100%		Completed
8		√	√	√	none			√				100%	
9		√	√	√		√	√	√	100%	100%	97%		
10		√	√	√	√	√	√	√	100%	94%	94%	6%	Completed
11		√	√	√	√	√	√	√	√	√	100%		Completed
37		√	√	√		√	√	√	49%	19%	19%		
38		√	√	√	√	√	√	√	√	√	100%		Completed
39		√	√	√	√	√	√	√	60%	58%	58%		
40		√	√	√	√	√	√	√	91%	89%	86%		
48		√	√	√	none	√	√	√	84%	40%	40%	60%	Completed
49		√	√	√	√	√	√	√	√	√	100%		Completed
49A		√	√	√									
50		√	√	√	√	√	√	√	96 %	96%	96%		
51		√	√	√	√	√	√	√	100%	100 %	100%		Completed

3. Environmental issues and mitigatory measures or action taken at site

Road ID	Issue/s	Status			Mitigatory measure/action	Ref. photo Number
		Not complied	Partly complied	complied		
09,37,39,50,51	Spillage of materials			√	Transporting vehicles will be covered	
39	Soil erosion at Disposal Site			√	Construction of walls using rock boulders	Fig. 01

4. Environmental Management Action Plan (EMAP) status

EMAP		Site specific EMAP			
Approved /Date	Not Approved	Road ID	Completed/ Submitted Date	Not Completed	Remarks
2016/05/16		7,10,11,38,	√ 2016/05/16		
		8,9,39,48,49,50	√ 2016/12/08		
		6,40,51	√ 2017/06/13		
		5,37,49A	√ 2017/10/18		

5. Environmental Monitoring Checklists (EMC) status

EMC						
Road ID	Pre-Construction stage, completed	Construction stage, % completed				Operational stage
		25%	50%	75%	100%	
10	√ 2016/03/14	√ 2016/05/19	√2016/07/20	√ 2016/11/22	√ 2017/04/29	
11	√ 2016/05/27	√ 2016/05/31	-	√ 2016/11/16		
38	√ 2016/03/17	√ 2016/05/31	√ 2016/06/22	√ 2016/10/11	√ 2017/10/18	
7	√ 2016/04/22	√2016/06/11			√2017/12/12	
8	√ 2016/07/14	√ 2017/02/28				
49	√ 2016/08/08	√ 2016/10/22		√ 2017/09/19	√2017/12/15	
9	√ 2016/09/12	√ 2017/03/11	√ 2017/04/29			
48	√ 2016/09/24	-	√ 2017/01/26		√2017/12/11	
50	√ 2016/10/14 √ 2017/08/17	√ 2017/01/26				
39	√ 2016/10/14 √ 2017/06/15 √ 2017/11/13	√ 2017/01/05	√ 2017/01/10			
51	√ 2017/01/16		√ 2017/10/25			
40	√ 2017/01/26	-	√ 2017/03/11			
6	√ 2017/02/14	-	√ 2017/11/07			
37	√ 2017/09/06					
49A	√ 2017/09/09					
5	√ 2017/10/06					

6. Tree removal and tree planting activity

Road ID	Plants Removing			Tree Planting			Planting location	
	Total no of plants to be removed	No. of plants removed	No. of native plants	Total No. of plants to be planted	No. of plants planted	Species	Identified	To be Identified
KRN 6	15	3	2	9	155	Nelli, Mango, Orange, Delum, Uguressa, Kebilla, Cashew, Locket, Gal Siyabala, Gaduguda, Lovi, Sapatilla, Pusberi, Bilin, Jamanaran, Durian, Passion Fruit, Avacado, Divul, Veralu, Rambutan, Naran, Lime, Heen Naran, Lime, Beli, Lemon, Jambu, Weralu, Anoda, Madan, Kone, Pera, Uguressa, Divul, Kamaranga, Bilin, Ambilla	Pushpadana Girls' College, Kandy Hewahwta Central College, Talathu Oya Saranankara	
KRN 10	23	23	15	69				
KRN 38	15	15	9	45				
KRN 37	33	16		48	50	Jambu, Delum, Pera, Orange, Uguressa, Naran, Veralu, Avacado, Anoda, Kaamaranga, Mango, Nelli	Wewala Parackrama School, Bokkawala, Abathenna Primary School, Ambathenna	
KRN 9	5	-						√
KRN 39	83	36	12	108	75	Mango, Pera, Naran, Delum, Orange, Nelli, Lemon, Passion Fruit, Naa, Kaamaranga, Uguressa, Nelli, Jambu, Veralu, Durian, Peni Dodam	Kapuliyadda Maha Vidyalaya, Thalathu Oya & Udagama Dewananda School, Ankumbura	

Road ID	Plants Removing			Tree Planting			Planting location	
	Total no of plants to be removed	No. of plants removed	No. of native plants	Total No. of plants to be planted	No. of plants planted	Species	Identified	To be Identified
KRN 40	138	138	11	414	90	Mango, Pera, Durian, Veralu, Peni Dodam, Nelli, Kaamaranga, Jambu, Delum, Uguressa, Naran, Jamanaran, Anoda, Ma dan	Madadeniya school, madadeniya Ankubura Rajamaha Viharaya, Ankubura Badrawathi Maha Vidyalaya, Galaha	
KRN 48	2	1	1	3				√
KRN 51	8	5	3	15				√
KRN 50	10	8	3	24				√
KRN 49A	14	-						√
Total	346	245	61	735	370			

7. License and approvals

Section	EPL		TL		I ML		X		Consent letter from GN/DS or related person	
	From	To	From	To	From	To	From	To	From	To
Crusher Plants										
1. Sierra Crusher Plant, Galaha	2017/5/08	2018/5/07	2017/1/25	2017/12/31						
3. Williams Woods Lee Crusher, Rideegama	2017/03/15	2018/3/14	2017/03/20	2017/12/31						
Asphalt plants										
1. Edward and Christie Asphalt Plant, Giriulla Road, Badalgama	2017/04/10	2018/04/09	2017/02/10	2017/12/31						
2. Access Engineering Asphalt plant, Mailapitiya	2017/06/16	2018/06/15	2016/01/25	2017/12/31						
Concrete Batching Plants										
1. Selltec Redimix Plant, Aladeniya	2017/01/11	2018/01/10	2017/06/12	2017/12/31						

7.1 Materials supply for the month

Type of materials	Details of the source							Road details				
	Name	location	Capacity		Approvals			Supplied Road IDs	Total Roads requirement		Balance requirement	
			Unit	Qty	CEA	GSMB	TL			Unit	Qty	Unit
Barrow materials	1.Welivita, Ihalagama Hatharaliyadda	Hatharaliyadda	cube	7500	√	√	√	39,40	cube	9500	cube	2000
	2. Morankanda Estate, Weewala Bokkawala	Morankanda Estate	cube	6000	License cancelled after excavation of 1500 cubes			51,50	cube	5200	cube	25
	3. Cragingilt Estate Owissa	Cragingilt Estate	cube	1500	License cancelled after excavation of 1500 cubes							
Quarry materials (ABC)	1. Williams Woods Lee Crusher	Wood Lee Estate, Paragoga	cube	35000	√	N/A	√	37,39,50, 51	cube	6000	cube	0
Asphalt	1. Access Engineering Asphalt plant	Mailapitiya	Mt	80000	√	N/A	√	37,50,39	Mt	2500	Mt	0

7.2 Requirements of Yards

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
10	Stock yard and Disposal yard	Al-Jenna Playground Patthampalli Delthota	LHS 1+700	m ³	3000	m3	1500	m3	0	√	√	√	√	√
	Disposal yard	347/A Goonangoda, Delthota	LHS 2+110	m ³	800					√	√	√	√	√

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal yard	No. 37/1 Relimankada,Delthota	LHS 2+970	m³	100					√	√	√	√
	Disposal yard	391, Relimankada Delthota	LHS 4+080	m³	50					√	√	√	√	√
	Disposal yard	1039, Pattiyagama Udagama	LHS 4+820	m³	150					√	√	√	√	√
11	Disposal yard	Maussawa Primary School playground Maussawa	In front of the Maussawa School	m²	800	m³	60	m³	0	√	√	√	√	√

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Stock yard	No. 284 Kirawanaketiya, Kolabissa	LHS 3+015	m³	1200	m2	3200	m²	0	√	√	√	√
	Stock yard	No. 277, Kolabissa Kirawanaketiya	RHS 2+890	m²	2000			m²	0	√	√	√	√	√
39	Disposal yard	No.102/A Narangaspitiya Hatharaliyadda	RHS 9+930	m³	600	m³	1000	m³	50					

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal yard	Kalotuwawa, Dedunupitiya	LHS 1+025	m ³	200	m ³				√	√	√	√
	Disposal yard	No.201/1, Kalotuwawa, Dedunupitiya	LHS 0+315	m ³	150	m ³				√	√	√	√	√
	Stock Yard	No.164/3 Pallepola Hatharaliyadda	LHS 10+480	m ²	200	m ²	2500	m ²	0	Land belongs to Hatharaliyadda DS and approval received				√

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
	Stock yard	No.88/B, Dedunupitiya, Pahalagama	Near the starting point of KRN 39	m ²	400	m ²				√	√	√	√	√
	Disposal yard & Stock yard	Kalotuwawa, Dedunupitiya	LHS 0+780	m ²	2500	m ²				√			√	
	Disposal yard	Dedunupitiya, Godathalaya	LHS 6+250	m ²	150	m ²				√	√	√	√	√

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
	Disposal yard	No 254/31, Habeeb land, Dedunupitiya	LHS 5+520	m ²	250	m ²				√	√	√	√	√
50	Stock yard	No. 41,Rajapihilla Pattiyawaththa	RHS 0+240	m ²	1500	m ²	1500	m ²	1500	√	√	√	√	√

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal Yard & Stock yard	Bothota Purana Viharaya,Medawala Harispaththuwa	LHS 2+600	m ²	180	m ³	1000	m ³		√	√	√	√
	Disposal Yard & Stock yard	No.70/2, Batagalla, Poojapitiya	100m from 5+750	m ²	150				0					

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
	Disposal yard	No.61/10 Antharagama, Pattiyawaththa	LHS 0+380	m³	90					√	√	√	√	√
Disposal yard	No. 143,Antharagama Pattiyawaththa	LHS 1+100	m³	140					√	√	√	√	√	

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal Yard	107/2, Batagalla, Poojapitiya	RHS 5+220	m ³	50					√	√	√	√
	Disposal Yard	107, Batagalla, Poojapitiya	RHS 5+322	m ³	50					√	√	√	√	√
	Disposal Yard	115/1, Batagalla, Poojapitiya	LHS 6+110	m ³	50					√	√	√	√	√

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
9	Stock yard	Sri Muthu Mariamman Kovil, Galaha Group Galaha	RHS 9+050	m ²	3000	m ²	2500	m ²	0	√	√	√	√	√
	Disposal yard & Stock yard	Sri Shantharamaya Temple, Uduwela Hanthana	RHS 2+240	m ³	1000	m ³	1000	m ³	0	√	-	-	√	

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
51	Stock yard & Disposal yard	No.478/3, Poojapitiya Kasawaththa	RHS 0+660	m ²	1500	m ²	1500	m ²	0	✓	✓	✓	✓	✓
40	Disposal yard	No. 222, Aludeniya	LHS 0+325	m ³	300	m ³	2000	m2	0					

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
	Disposal yard	No. 194 Aludeniya North	RHS 0+610	m ³	100	m ³				✓	✓	✓	✓	✓
Disposal yard	Sri Senevirathna Bodhimalu Viharaya, Aludeniya	RHS 0+630	m ³	600	m ³				✓	✓	✓	✓	✓	
Disposal yard	No. 145, Kandeyaya, Aludeniya	RHS 1+260	m ³	50	m ³				✓	✓	✓	✓	✓	

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal yard	No. 115/D, Paragoda, Aludeniya	LHS 1+710	m³	50	m³				✓	✓	✓	✓
	Disposal yard	No. 96/1,Gonathenna, Aludeniya	RHS 2+640	m³	500	m³				✓	✓	✓	✓	✓
	Disposal yard	Naranwala, Kahapathwala	RHS 3+460	m³	500	m³				✓	✓	✓	✓	✓
	Disposal yard	Kosgollehena Kahapathwala	RHS 4+580	m³	1000	m³				✓	✓	✓	✓	✓
	Disposal Yard	Hataharaliyadda Road, Kahapathwala	RHS 4+350	m³	1500	m³				✓	✓	✓	*	✓

Road ID	Details of yards					Road requirement		Balance requirement		Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity						Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Stock yard	Paragoda, Aludeniya	LHS 1+620	m ²	225	m ²	1500	m ²	0	√	√	√	√
Stock yard		Paragoda School Playground, Paragoda	RHS 1+710	m ²	1500	m ²	√				√	√	√	√
6	Stock yard and Disposal yard	Mahakanda, Hindagala	Near to KRN 6	m2	2000	m ²	1500	m ²	0	Land belongs to University of peradeniya and approval received from the University				√

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
	Disposal yard & Stock yard	Mobre Tea Factory Mahakanda,Hindagala	RHS 1+090		2000									
	Disposal yard	No.220, Mahakanda, Hindagala	LHS 1+195	m ³	150	m ³	150	m ³	0	√	√	√	√	√
37	Disposal yard	No.86/A, Hiyadala, Walpola	RHS 3+680	m ³	1500	m ³	1500	m ³	0	√	√	√	√	√
	Disposal yard	No 62/C, Polwaththa, Ihalagama	RHS 2+010	m ³	200	m ³				√	√	√	√	√

Road ID	Details of yards									Approval and other requirements				
	Type of yards Stock yard/ Disposal yard	Name	Location	Capacity		Road requirement		Balance requirement		Owner	GN	DS	PS	Restore Plan
				Unit	Qty	Unit	Qty	Unit	Qty					
		Disposal yard	30 Acres, Minigamuwa	RHS 2+300	m³	300	m³				√	√	√	√
	Stock yard	Walpola, Minigamuwa	Near to end of KRN 37	m²	250	m²	2500	m²	0	√	√	√	√	√
	Stock yard	Alotuwa Play Ground, Polwatta Ihala	RHS 0+750	m²	2500	m²		m²		Approval received from Hatharaliyadda DS				√
49A	Disposal yard	Ketagal Kadura Hena, Watagoda, Harispattuwa	LHS 1+800	m³	250	m³	1000	m³	500	√	√	√	√	√

Compliance to the EMAP/SEMAP

Environmental /Social impact observed/ recorded	Applicable packages and road/s	Mitigation measure/s adopted	Mitigation measure/s recommended in the EMP/SEMAP	Effectiveness	Recommendations proposed	Photos
Spillage of materials	Rd 50, Rd 51, RD 9, RD 39, RD 37	Covering of Transporting vehicles	Covering of Transporting vehicles		-	
Soil erosion at Disposal Site	Rd 39	Construction of walls using rock boulders	Construction of walls using rock boulders			Fig.01
Soil erosion at road shoulder and embankment	Rd 11, 49,48	shoulder and embankment turfing	shoulder and embankment turfing		-	Fig.02

8. Gender % in month of December

Office Staff		Workers' staff	
Male	Female	Male	Female
84	11	285	2

9. Summary of public complaints, action and their status

Number of	Received up to this month	Received in this month	Attended up to this month	Attend within this month	To be attended	In Progress up to December	Completed up to December
Complaints	23	1	19	4	1	-	23
Suggestions	1	-	-	-	-	-	1
Request	200	15	207	13	2	5	208

11. Summary of GRCs

GRCs at DSD Level			GRCs at GND Level		
Total No. of DSDs	GRCs established	GRCs to be established	Total No. of GNDs	GRCs established	GRCs to be established
7	7	-	57	57	-

12. Summary on health and safety status (No. of accidents, No. tools box meeting)

No. of accidents			Awareness on health and safety			
Minor	Major	Action Taken	No. of tool box meetings	Target audience	No. of participants	Date
No Accidents			1	labors	22	2017/12/29

13. Social Work **no any Social work during the month**

Date	Location	Social work/Programs Conducted	Objective/s	No. of participants/beneficiaries	
				Male	Female

14. Status of Land donation

Road ID	Location/Chainage	Side of the road	Ownership of land (Government/Private)	Reason for additional land requirement	Name & Address of the land owner	Status of signing MOU	Photograph of the location
No any MOU signed in month of December							

15. Safety analysis and aspect

Road ID	Date	Location			Nature of the safety condition	Photo Number	Mitigation Action	Photo Number
		Chain age	LHS	RHS				
No any safety hazards in month of December								

Number of complaints referred to GRM – DS Level

Package	Name of the complainer	Complaint	GRC Decision
No any complaints send to GRM-DS Level			

Number of complaints referred to GRM – GN Level

Package	Name of the complainer	Complaint	GRC Decision
No any complaints send to GRM - GN Level			

16. Design changes on community public request

Road ID	Changes made to the original design	Social (✓)	Environmental (✓)	Discussed at GRC (✓)		Satisfaction of complainer
				GND Level	DSD Level	
	No any Design Changes done in month of December					



Fig. 01



Fig. 02

Annexure 4

Environmental issues observed by contractor's staff and environmental issues reported by public and measures taken

Environmental impact observed during the respect month and measures taken by the contractor - KA1

Month	Road No.	Environment Issue Observed	Mitigation Measures
January	01,02,03,04, 04 A, 36, 43, 52,53 44	Dust emission Soil erosion	Watering the roads Turffing
February	01,02,03,04, 04 A, 36, 43, 52,53 46	Dust emission Soil erosion	Watering the roads Turffing
March	01,02,03,04, 04 A, 36, 43, 52,53 45	Dust emission Soil erosion	Watering the roads Turffing
April	01,02,03,04, 04 A, 36, 43, 52,53 21	Dust emission Soil erosion	Watering the roads Turffing
May	01,02,03,04, 04 A, 36,42, 43, 52,53 21	Dust emission Soil erosion	Watering the roads Turffing
June	01,02,03,04, 04 A, 36,41,42, 43, 52,53 21	Dust emission Soil erosion	Watering the roads Hard Shoulder
July	01,02,03,04, 04 A,32, 36,41,42, 43, 52,53 47	Dust emission Soil erosion	Watering the roads Turffing
August	01,02,03,04, 04 A,32, 36,41,42, 43, 52,53 52	Dust emission Soil erosion	Watering the roads Hard Shoulder
September	01,02,03,04, 04 A,32, 36,41,42, 43, 52,53 47	Dust emission Soil erosion	Watering the roads Turffing
October	01,02,03,04, 04 A,32, 36,42,53	Dust emission	Watering the roads

	21	Soil erosion	Turffing
November	01,02,03,04, 04 A,32, 36,42,53 47	Dust emission	Watering the roads
		Soil erosion	Turffing
December	01,02,03,04, 04 A,32, 36,42,53 21	Dust emission	Watering the roads
		Soil erosion	Turffing



Environmental impact observed during the respect month and measures taken - KA3

Month	Road No.	Environment Issue Observed	Mitigation Measure/s taken by Contractor
April, August, November	KRN 37,39,51	Soil erosion at disposal yards and stock yards	i. Construction of retaining walls using rock boulders and soil bags ii. Construction of Drains
All the Months	KRN 06,09,37,39,48,50,51,	Dust generation	i. Covering of Transporting vehicles ii. Watering of roads
September October November	KRN 10,11,48,49	Erosion of shoulders & embankments	i. Soil erosion control and slope protection by Turfing

Soil erosion control



Before



After



Construction of Drains



Before Deltota – Gabadagama Road (KRN 10) 1+700 RHS



After Deltota – Gabadagama Road (KRN 10) 1+700 RHS



Before Deltota – Gabadagama Road (KRN 10) 4+060 LHS



After Deltota – Gabadagama Road (KRN 10) 4+060 LHS



Before Deltota – Gabadagama Road (KRN 10) 2+110 LHS



After Deltota – Gabadagama Road (KRN 10) 2+110 LHS



Before Maussa Kolabissa Road (KRN 11) 2+890 RHS



After Maussa Kolabissa Road (KRN 11) 2+890 RHS



Stock Yards: Hantana - Udawelawaththa Road (KRN 09) 9+050 RHS



**Before Stock Yards: Gurudeniya –
Dambawela Road (KRN 07) 0+190 LHS**



**After Stock Yards: Gurudeniya –
Dambawela Road (KRN 07) 0+190 LHS**



**Before Disposal Yard : Delthota
Gabadagama Road (KRN 10) 4+820 LHS**



**After Disposal Yard : Delthota
Gabadagama Road (KRN 10) 4+820 LHS**

Dust Generations



Covering of Transporting vehicles



Watering of roads

Soil erosion control and slope protection by Turfing



Turfing Delthota Gabadagama Road (KRN 10)



Karaduwwala Getathale Road (KRN 48)



Bokkawala Pahala Hingulwala Road (KRN 49)

Environmental impact observed during the respect month and measures taken - NE 1

Month	Road No.	Environment Issue Observed	Mitigation Measure/s taken by Contractor
August, September	All roads	Dust control while ABC compaction	Water spreading while ABC compaction
January, November, December	Road 08,03,11	Soil erosion at Dumping Yards	Boulder walls were constructed
January	Road 08	Soil erosion in earth drains at highly slope areas	Concrete U drains were constructed
February	Road 03	Falling Soil from road to Adjacent slope	Action taken to prevent further erosion
April	Road 03	Soil erosion from soft shoulders	Turfing the shoulder



Water spreading while ABC compaction



Boulder walls were constructed



Concrete U drains were constructed



Action taken to prevent further erosion



Turfing the shoulder

Environmental impact observed during the respect month and measure taken - NE 2

Month	Road No/Place	Environment Issue observed	Mitigation measure/s taken by contractor	Photo No
January	Main Yard at Nanuoya	Oil that comes from the mechanical yard spreads over the land	Developed an oil separation tank series	1-01
February	At site officers	No proper solid waste management at office premises	Introduced solid waste separation bins and hand covered to Local Authority	1-02
March	Rd 32	Soil erosion in the embankment	Turfed the embankment surface	1-03
	Rd 23	Soil erosion in the embankment	Planted creeping plants on the embankment surface	1-04
May	Rd 29	Paving ABC material spread over the tea land	Collected by manually	1-05
June	Rd 16	Paving ABC material spread over the tea land	Collected by manually	1-06
August	Rd 29	Soil erosion at the cut edge of the road	Developed L drain and Planted flower species	1-07
		Soil erosion at the cut edge of the road	Developed edge wall	1-08
September	Rd 24	Dust emission while compaction	Compaction in wet condition	1-09
October	Rd 32	Soil erosion from embankment	Turfe the embankment	1-10
November	Rd 30	Shoulder erosion	Developed coffer drain	1-11
December	Rd 29	Soil erosion	Developed steps to the out let	1-12



planting on the embankment for erosion control



planting for prevent erosion at shoulder Rd 23



oil separation tank series at main yard



solid waste separation at site office Rd 16



removing spread material from tea land at Rd 24



removing spread material from tea land Rd 16



ledge develop and embankment protect by erosion at Rd 24



erosion control by ledge



compaction in wet condition



grass turving for erosion control at Rd 32



grass turving for erosion control at the
shoulder at Rd 30



erosion controlled by developing steps to
the outlet of the culvert, Rd 29

Environmental impact observed during the respect month and measure taken - NE 3

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor	Image No
January	47	Dust due to construction activities	Water Sprinkles are used for dust control	01
January	46	Dust due to Material Transport	Trucks are covered with proper covering material.	02
July	43	Soil Erosion in Dumping Yards	Boulder wall has been constructed required dumped yards	03
July	46	Possibility of Soil Erosion in embankment side of the roads	Turfing	04
August	45	Possibility of Soil Erosion in embankment side of the roads	Turfing & “L” Drain have been constructed	05
August	36	Soil Erosion in Dumping Yards	Boulder wall has been constructed required dumped yards	06
July	47	Possibility of cement particles dispose in the road side.	De silt tank to wash the Truck Mixtures - Pallewaththa Dagampitiya Road (47) - CH: 6+221 (RHS)	07
November	45	Possibility of Earth slips at Ch 0+450(LHS) in Hapugasthalawa Dabagala Road (45).	“L” wall has been constructed	08



Trucks are covered with proper covering material -Ginigathhena Dehigasthenna Ellauda Road (46), 2+350



Water Sprinkles are used for dust control - Pallewaththa – Dagampitiya Road - 47 (3+700)



Boulder wall construction at dumping yard. Hapugasthalawa Halgolla Road - Ch: 3+100 (RHS)



Turfing for Erosion Control – Ginigathhena Dehigasthenna Ellauda Road – (46) , Ch: 0+655 (RHS)



“L” Drain (RHS) & Turfing (LHS) have been constructed Hapugasthalawa Dabagala Road (45).



Boulder wall construction at dumping yard. Beramana Udagama Madakubura Road (36) - Ch: 0 +890(RHS)



De silt tank to wash the Truck Mixtures - Pallewaththa Dagampitiya Road (47) - CH: 6+221 (RHS)



"L" wall has been constructed. at Ch 0+450 (LHS) in Hapugasthalawa Dabagala Road (45).

Environmental impact observed during the respect month and measure taken - MA 1

Month	Road No.	Environment Issue Observed	Mitigation Measure/s taken by Contractor
January/2017	1.1 R 06-Udahapuwida Junction to Leliambe Junction Road Location – 2+400 LHS	Soil erosion of bank of the road and risk to slip towards house.	Turffing by grasses
April/2017	1.2 R 45- Ovilikanda to Babaragahakanda Road via Wademada Pathingolla Location - Chain age – 4+478 RHS	Soil erosion nearest to road adjoining the house and risk to landslip	Filling by wasted soil against slop by using sand bags.



Turffing by grass



Filling sloppy area of near a house by using wasted soil and sand

Environmental impact observed during the respect month and measure taken - MA 2

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor
January	R-22	Soil Waste (unwanted material from soil)	Waste material re-used by villagers
Jan-Dec	All roads	Soil erosion at road shoulders	Turffing ,Hard shoulder
February	Vehicles yards area	Waste water generate from vehicle's washing place	Introduced Oil Trap
Jan-Dec	All roads	Disability to rain water discharge	Introduce Earth drain & 'U',L, Disk Drain.



Waste material re-used by villagers RD 22, 2+010



Turffing, Hard shoulder RD 55



Hard shoulder & "U", "L" Drain. Road no: 19, CH 2+018



Constructed House accesses & “U” Drain, R -23,
CH: 3+100



“U” Drain, Road 52



Oil Trap @ vehicle’s washing place



Road marking, Road No 25 – Ch. 2+640

Environmental impact observed during the respect month and measure taken - MA 3

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor
January,February,March,	27,38,42,16,43,33,29	Soil erosion	Turffing
June,November,December	40,44,30	ABC are on the shoulder	Shall be removed from the shoulder and carry them to the disposal yard
April,June,August	30,31,32	Empty cement bags and unsuitable soil are near the culvert	All debris should be transferred to the disposal yards.
June,July,August,September	39,40,41,29	Dust generation while loading and unloading materials.	Water shall be spread before unloading materials
May,October	42,16,44	Rigi form board parts presented here and there in the road	All debris should be dispose to the disposal yards



Ellepola Kalupalama -0+455km







Ellepola Kalupalama -0+455km






Environmental impact observed during the respect month and measure taken - KE 1

Month	Road No:	Environment Issue Observed	Mitigation
January 2017	18,09	Soil Erosion of disposal yards	Stone barriers were provided 
	03,12,18	Dust emission	Watering 
February 2017	19,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Construction of toe walls for disposal yards and turfing of the embankment
	03,12,18,17	Dust emission	Watering

			
	19,70,17,18	Surface runoff	Construction of proper drains and carry out routine maintenance work
	19,70,16,17,18,10,09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
March 2017	10,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Construct toe walls for disposal yards and turf the embankment
	03,12,18,17,05,09	Dust emission	Watering 



	19,70,17,18	Surface runoff	Construct proper drains and apply silt barriers 
	19,70,16,17,18,10, 09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
April 2017	03,10,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Construct toe walls for disposal yards and turf the embankment
	03,12,18,17,09	Dust emission	Watering 

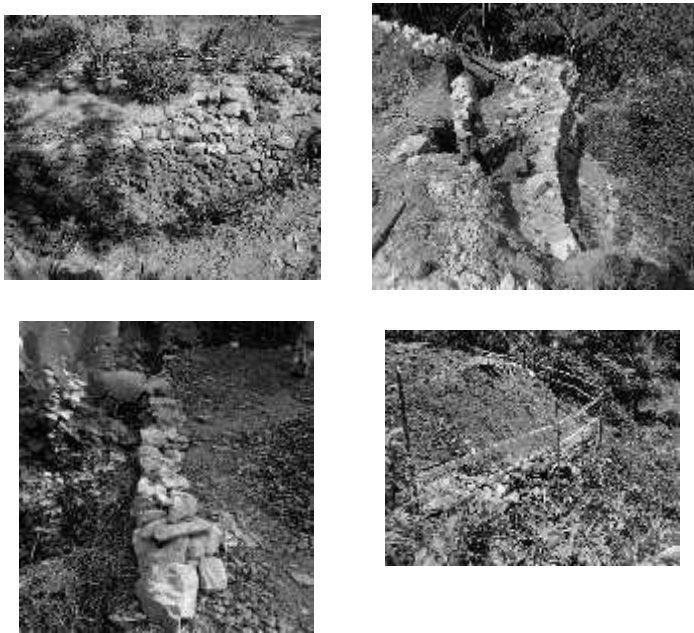
	19,70,17,18	Surface runoff	Construct proper drains and apply silt barriers 
	19,70,16,17,18,10,09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
May 2017	03,10,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Construct toe walls for disposal yards and turf the embankment
	19,70,17,18	Surface runoff	Construct proper drains and apply silt barriers 



	19,70,16,17,18,10, 09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
June 2017	03,10,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Applied stone tracks, sand pillows for the toe of the disposal yard.
	19,70,17,18	Surface runoff	Construct proper drains and apply silt barriers 
	19,70,16,17,18,10, 09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
July 2017	10,17,18, 05,09	Disposal yards are getting washed off due to heavy rains	Construction of toe walls for disposal yards and turfing of the embankment

	70	Dust Emission	Watering
	19,70,17,18	Surface runoff	Construction of proper drains and silt traps
	19,70,16,17,18,10, 09,07,12	Removal of trees	Replanting of trees in a ratio of 1:3
August 2017	03,10,17,18,05,09	Disposal yards are getting washed off due to heavy rains	Stone tracks available
	19,70,17,18	Surface runoff	Drain Available
	19,70	Surface runoff	Drain Available
September 2017	17,18	Disposal yards are getting washed off due to heavy rains	Apply silt/stone barriers
	19,70,17,18	Surface runoff	Drain Clearing

Environmental impact observed during the respect month and measure taken - KE 2

Month	Road No.	Environment Issue Observed	Mitigation Measure/s taken by Contractor
1.September	27	Falling of rock to water body (ch-4+905-LHS)	Rock blasted & removed 
2.October	36	Soil dump to water stream (ch-1+700-LHS)	Soil removed & cleaned the stream 

3.From January to December	20,21,22,24,26,27,33,34,35,36,37,39,57,60,63	Soil erosion due to disposal and stock yards	<p>Making of retaining walls by using boulders and soil poly bags</p> 
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4. January-March, July-August, December	20,21,22,24,26,27, 33,34,35,36,37, 39,57,60,	Dust generation	<p>Watering from bowser</p> 

Environmental impact observed during the respect month and measures taken - KE 3

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor
April	42	Dust generation	Covered by polythene sheets
January	68	Embankment Erosion	Turfing works suddenly implemented
March	47	Soil particles wash away from disposal yard	Made protection wall to avoid that process
April 1	55	Well system have been polluted due to no side drains	Made disturbance hump from gully bag
June	52	A well have been polluted due to no side drains	Made protection wall from gully bags & wood
May	54	Make	



Rock blasted & removed 27 (ch-4+905-LHS)



Soil removed & cleaned the 36 (ch-1+700-LHS)



Making of retaining walls by using boulders and soil poly bags



Making of retaining walls by using boulders and soil poly bags



Watering from bowser

Environmental impact observed during the respect month and measure taken - R 1

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor	Figure No
January March April May September November December	Road ID- 14,11,13,17	Dust Generation	Water Bowser used to minimize Dust Generation	Fig:-1.1
January February March April October November	Road ID - 11,17,19A,19, 13,14,12	Dust Generation	Covered vehicles (with tarpaulin) are using to transport materials to control dust emission.	Fig:-1.2
January March May	11, 14, 17,	Disturb to flora	Replanting Programme	Fig:-1.3
January February April	11,16,17,19A,19,	Soil erosion	Turfing	Fig:-1.4

November December January (2017) February (2017)	11,16,17,19A,19, 13,14,12	Soil Erosion	Construction of concrete drain & earth drain	Fig:-1.5
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Water Bowser used to minimize Dust
Generation



Covered vehicles










Turfing



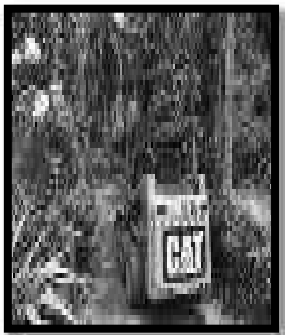







Construction of concrete drain & earth drain


Environmental impact observed during the respect month and measure taken - R 3

Month	Road No	Environment observed	Issue	Mitigation measure/s taken by contractor	
January	R 36	The month is majority dry, and heavy rain received only for few days and Therefore, Dust is the main issue due to vehicle running and earth works		Water Damping was carrying out where community is gathering and dwelling. Soil and debris were disposed in approve disposal yards. River diversion is done without harm to the flow rate and eco system.	Water damping 
	R 08				
February	RD 26	Month is dry and the Dust is the main impact to the environment		do	
March	R 26	Heavy Rain received for more than a week.		Soil erosion was mitigated through turfing	 Turfing

				
April	RD ID 10	The month is dry however erosion was there in some days with heavy rain. Soil erosion could be occurred from dumping yard	2+025LHS RRM wall for aggregated to avoid soil erosion from dumping yard	 

May	R 08	Heavy rain received more than half of the month. Environment was inundated, and construction activities couldn't be continued affected some areas.	The RR distributed aids for the social affected Soil erosion was mitigated through turfing and aggregate layers. Affected roads were protected from erosion and muddy conditions.	 
	R 10A			
June	RD ID 02 at 3+000 RHS, at 1+900 RHS	Few days were rain and more days were dry. Generation of dust	was mitigated through water damping. Stock files were removed soon possible.	

					
July	RD ID: 35 CH: 1+890 LHS - Construction of RRM Wall	The month is dry			
August	R:35 CH: 1+680 RHS - Construction of RRM Wall	Soil erosion			
September		Soil Erosion and Siltation is the main impacts caused to the environment during rainy season. On sunny days dust generation was to be mitigated	Aggregates walls against dumping yard soils prevented the soil erosion.		
October					

November		Soil erosion	Turfing to prevent erosion	
December	RD ID: 02	Compaction & Contamination of soil	Establish a retaining wall	

Environmental impact observed during the respect month and measure taken - KL 1

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor
February	Main Yard	Soil contaminate with Bitumen	Remove contaminated soil and constructed bitumen storage place
May	83	Flooding constructing road due to blockage of irrigation canal due to over grown aquatic vegetation	Remove the vegetation and allow the smooth water flowing
May	92	Embankment erosion	Retaining wall construction



Contamination of soil by bituminous products



Removing overgrown vegetation Rd 83



Retaining wall construction



Environmental impact observed during the respect month and mitigation taken by the contractor - KL 3

Month	Road No	Environment Issue observed	Mitigation measure/s taken by contractor
July	81	Water logging due to raising of the road. 0+800 RHS 1+090 RHS 1+180 RHS	Provided suitable drains for these locations.
May	82	Erosion of few locations in sloppy embankment. 0+503 - 0+555 LHS 0+625 - 0+714 LHS 0+910 - 0+960 LHS An old retaining wall was found near the culvert 0+678 RHS	Turfing was done in these locations. . shifting the culvert without harming the retaining wall
August	32	Erosion was occurred throughout the road trace due to lack of suitable side drains (CH 0+960)	Provided suitable drains for these locations
September	17	Removing some trees which were located adjacent to road by land owners according to their desire	A awareness programme was organized for site in chargers and supervisors about tree removal process



Provided suitable drains for water logging places - (CH- 1+180) -RD ID 81



Before

Turfing of the sloppy area to prevent soil erosion (CH- 0+503 - 0+555 LHS) -(RD ID 82)



After



Shifting the culvert to protect the retaining wall in Deerananda road (RD ID 82) (CH - 0+678 RHS)

Annexure 5

Details of tree planning program in different Packages

7.1 Tree planning program details KA1

Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number	Place of the Planted	Participants		Contribution by Company
					Male	Female	
June	-	-	30	Ambakote STF Camp	25	01	Facilitate and conduct the program
August	42	02	20	Thennekumbura Vidyalaya	20	25	Facilitate and conduct the program
	21	01					
September	01	04	-	-	-	-	-
October	32	10	25	Senarathwela Vidyalaya	15	20	Facilitate and conduct the program
November	32	02	35	Meegamawatta Vidyalaya	25	15	Facilitate and conduct the program
December	36	03	-	-	-	-	-

Type of Trees Planted with Number

Place of the Planted	Mango	Nelli	Rmbutan	Jack	Kambaran ga	Divul	Tabubia	Kumbuk	Ehala	Kohomba	Bulu
Ambakote STF Camp	05	05	05	05	05	05	-	-	-	-	-
Thennekumbura Vidyalaya	05	03	03	-	05	04	-	-	-	-	-
Senarathwela Vidyalaya	03	03	02	-	-	02	05	01	02	05	02
Meegamawatta Vidyalaya	05	05	03	05	02	-	05	03	05	-	02
Total	18	16	13	10	13	11	10	04	07	05	04



Tree planting programme at Ambakote STF Camp



Tree planting programme at Thannekumbura Vidyaloka Vidyalyaya



Tree planting programme at Senarathwela Maha Vidyalyaya



Tree planting programme at Meegamawatta



7.2 Tree planning program details KA2

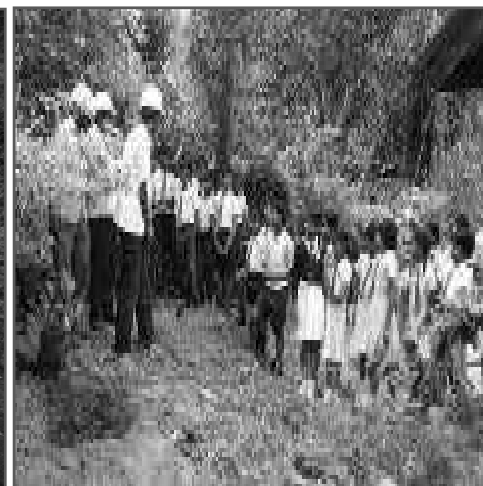
Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number	Place of Planted	Participants		Contribution by Company
					Male	Female	
June 2017	KRN 27		Bulu – 02 Kohomba – 02 Naa – 03 Asala – 02 Goraka – 02 Burulla – 02 Kumbuk – 01 Dodam – 02 Lawulu – 02 Nelli – 03	Manikkawa Goanadhikawaththa Sinhala Tamil School			
	KRN 26		Suduhandun – 03 Kohomba – 03 Naa – 06 Asala – 03 Ashoka – 01	Maha/Gam/Inguruwaththa Vidyalaya – Gampola			
	KRN 28		Jamanaran – 02 Rambutan – 02 Kilo pera – 02 Kamaranga – 02 Katuanoda – 02 Uguressa – 02 Delum – 02 Ambaralla – 02 Bulu – 02 Kohomba – 02	Vijayalanka Kanishta Vidyalaya – Viharagama			

	KRN 25	Bulu - 02 Kohomba - 02 Kottamba - 03 Karanda - 01 Naa - 03 Asala - 02 Halmilla - 03 Pihimbiya - 05 Dodam - 03 Damnika - 01	K/ Angammana Vidyalaya - Gampola			
	KRN 16	Delum - 02 Bulu - 03 Kohomba - 05 Naa - 02 Burulla - 03 Kumbuk - 02 Milla - 03 Halmilla - 02 Pihimbiya - 01 Dodam - 05 Thekka - 03 Damnika - 01 Thotila - 02 Siyambala - 02	Galpaya Kanishta Vidyalaya- Kurunduwatta			
	KRN 15	Kohomba - 05 Asala - 05 Pihimbiya - 10	Menikdiwela Vidyalaya - Menikdiwela			
	KRN 14	Mango - 05				

			Delum – 05 Kohomba – 05 Karanda – 05 Koan – 05 Kumbuk – 05 Robarosiya - 05				
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Manikkawa Goanadhikawaththa Sinhala Tamil School. (KRN 27)



Maha/Gam/Inguruwaththa Vidyalaya – Gampola (KRN 26)



Vijayalanka Kanishta Vidyalaya – Viharagama (KRN 28)



K/Angammana Vidyalaya – Gampola (KRN 25)



Galpaya Kanishta Vidyalaya- Kurunduwatta (KRN 16)



Menikdiwela Vidyalaya – Menikdiwela (KRN 15)



7.3 Tree planning program details KA3

Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number	Place of Planted	Participants		Contribution by Company	Remarks
					Male	Female		
January	KRN 40	25						
February	KRN 40,51	2,1						
March	KRN 40,6,51	3,1,3						
April								
May	KRN 10,51	17,1						
June	KRN 50	1	Mango7, Orange6, Delum 6, Uguressa1, Kebilla 1, Nelli 9, Cashew1,Loket1,Gal Siyabala 1,Gaduguda 1,Lovi 1, Bilin1, Sapatilla1, Pusberi1, Divul3, Jamanaran 5, Durian 4,Passion Fruit2, Avacado5, Veralu 3, Rambutan3	Hewaheta Central College, Talathu Oya (63 Plants)			Provided plants	Fig. 72-75
June			Naran 8,Heen Naran1,Lime1,Beli 2, Orange 6, Lemon 4, Jambu 2, Weralu 2, Anoda 2, Madan 2, Kone 2, Delum 2, Pera 2,Rambutan 2, Bilin 2,Uguressa 2, Divul 2, Kamaranga 5, Ambilla 2,Bahuniya 1	Pushpadana Girls' College, Kandy (52 Plants)			Provided plants	Fig. 76-81
July			Mango 5, Pera 4,Naran 4, Naa1, Delum 8, Orange 7, Nelli 6, Lemon 10, Passion Fruit 5	Kapuliyadda School,Thalathuoya (50 Plants)			Provided plants	Fig. 82-87

July			Mango 6, Pera1, Naran 3, Delum 2, Kaamaranga 1, Uguressa 3, Nelli 2, Jambu 2, Veralu 2, Durian 2, PeniDodam 1	Udagama Dewananda school, Ankumbura (25 Plants)			Provided plants	Fig. 88-93
August	KRN 6,48,50	2,1,2	Mango 5, Pera 2, Durian 2, Veralu 2, PeniDodam 2, Kaamaranga 2, Nelli 2, Jambu 2, Delum 2, Uguressa 2, Naran 2	Madadeniya school, Madadeniya (25 Plants)			Provided plants	Fig. 94-99 Fig. 100-102
August			Mango 4, Jambu 2, Pera 1, Uguressa 1, Delum 2, Jamanaran 2, Durian 1, Nelli 1, Kaamaranga 1	Ankubura Rajamaha Viharaya, Ankubura (15 Plants)			Provided plants	Fig. 103-108
September	KRN 39,50	1,4						
October	KRN 50,37	1,13	Peni Dodam 5, Mango 5, Jambu 5, Pera 5, Jam Pera 5, Delum 5, Naran 5, Behet Nelli 3, Veralu 5, Anoda 5, Madan 2	Badrawathi Maha Vidyalaya, Galaha (50 Plants)			Provided plants	Fig. 109-114
October			Mango 2, Pera 2, Kaamaranga 2, Delum 2, Orange 2, Nelli 2, Lemon 2, Jamanaran 2, Katu Anoda 2, Avacado 2, Beli 2, Cheri 2, Uguressa 5, Wood Apple 2, Veralu 3, Weli Anoda 2, Rambutan 2, Jambu 2	Saranankara Sachool, Thalathuoya (40 Plants)			Provided plants	
November	KRN 37	2	Jambu 2, Delum 4, Pera 2, Orange 2, Uguressa 2, Nelli 1, Naaran 2, Veralu 1, Mango 4, Avacado 2, Anoda 2, Kaamaranga 1	Wewala Parackrama School, Bokkawala (25 Plants)			Provided plants	Fig. 115-120
November			Veralu 1, Delum 2, Mango 4, Orange 3, Jambu 2, Pera 2, Naaran 4, Nelli 1, Uguressa 1, Avacado 2, Kaamaranga 1, Anoda 2	Abathenna Model Primary School, Ambathenna (25 Plants)			Provided plants	
December	KRN 39	15						



Tree Planting Program @ Hewaheta Central College, Talathu Oya - 2017.06.05



Tree Planting Program @ Pushpadana Girls' College, Kandy - 2017.06.07



Tree Planting Program @ Kapuliyada Maha Vidyalaya, Thalathu Oya - 2017.07.14



Progress on Tree Planting after 4 months @ Kapuliyadda Maha Vidyalaya, Thalathu Oya 2017.11.12



Tree planting @ Udagama Dewananda School - 2017.07.31



Tree Planting Program @ Madadeniya School, Poojapitiya – 2017.08.02



Tree Planting Program @Ankumbura Temple, Ankumbura - 2017.08.07



Tree Planting Program @ Badrawathi Maha Vidyalaya , Galaha - 2017.10.03



Tree Planting Program @ Wewala Parakrama School, Bokkawala - 2017.11.16

7.4 Tree planning program details MA 1

Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number		Place of Planted	Participants		Contribution by Company
						Male	Female	
February 4 th , 2017	R 13 R 11	08	Bread fruit	02	Demonstration of agroforestry model at Shana Special School (school of differently able student at Koswana) representing Road ID 13 and R11-	20	15	*Cost of plants, refreshment cost
			Mango	07				
			permanganate	07				
			Guava	08				
			Nutmeg	08				
			Coconut	05				
			Lime	08				
			Orange	08				
			Pepper	20				
			Durian	02				
			Avocado	08				
			Amberella	08				
			Slime apple(beli)	05				
			Coffee	05				
			Moringa cutting	50				
			Nelli	05				
			Banana	08				
Site No 2	Project Area : R 12, Domagoa Pahala Hapuwida Road				Planting Place – Water conveying canal beside Mount Eliza Estate, Alwatta			

February 4th,2017	R 12	03	Mee(Basica)	25	Road ID 12 Dombagoda near Muttur Amman Kovil in collaboration with sport club	18	12	*Cost of plants, refreshment cost
			Kumbuk	05				
			Moringa	50 cuttings				



• කවරෙකු විසින් පිළිවෙලට නො සිදු කළද, ප්‍රතිඵලයක් ලෙසින් පිළිවෙල අනුකූලව සිදු වූයේ රටේම අවධාන පිළිවෙලටය.


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• කවරෙකු විසින් පිළිවෙලට කෙටිකලකින් විසි වූයේ රටේම අවධාන පිළිවෙලටය.

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විවිධ වර්ග	කෘෂි භූමියක්	විවිධ වර්ග
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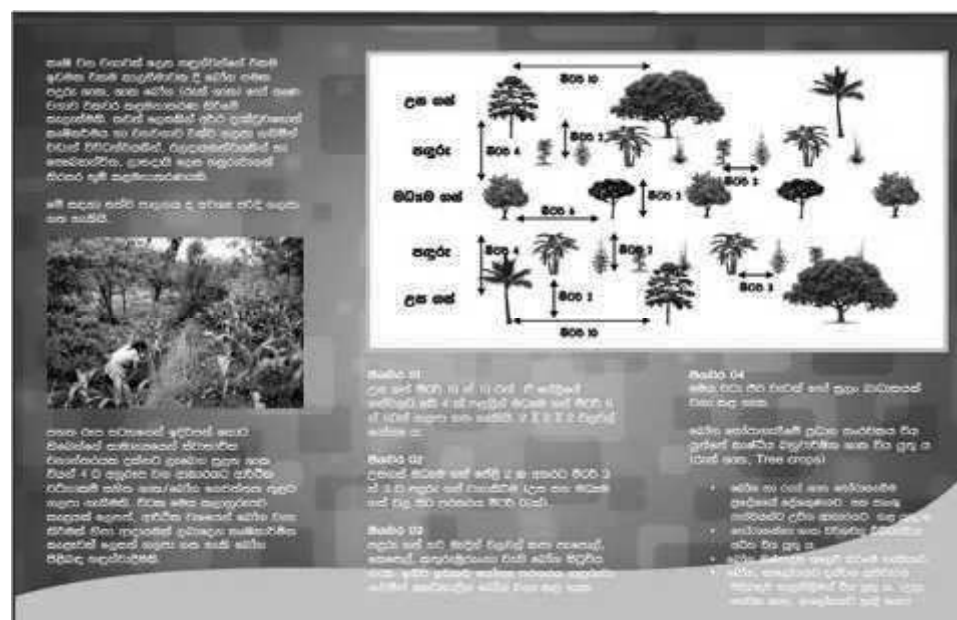
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Leaflets of disseminated



R 12- Mount Eliza Estate, Alwatta



Mount Eliza Estate, Alwatta

7.5 Tree planning program details MA 2

Month	Road No	No of trees removed	type of trees planted with number	Please of planted	Participants		Contribution by company
					Male	Female	
Jan-Dec	21	2	46-Fruit tree species	Rathmalgahaela school, Dambulla on 22 nd February 2017	163	128	Rs.75000/=
	23	5					
	20	2					
	53	2					
	22	2					



Officers Site visit on 28.09.2017, (Rathmalgaha-ela vidiyalaya-Tree Planting site.)



(Rathmalgaha-ela vidiyalaya-Tree Planting site.)



(Rathmalgaha-ela vidiyalaya-Tree Planting site.)

7.6 Tree planning program details MA 3

Month	Road No	No of trees removed	type of trees planted with number	Please of planted	Participants		Contribution by company
					Male	Female	
February	All Iroad Projects road of Matale MA3 Packages – Wilgamuwa Area	52	Na,Ahala,Pihibiya-63	Naula Public Ground	18	22	CML-MTD Constuction
September	All Iroad Projects road of Matale MA3 Packages – Naula Area		Mango-325	Nagolla Temple	45	63	CML-MTD Constuction



Naula Public Ground



Nagolla Temple



Nagolla Temple



7.7 Tree planning program details NE 1

Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number	Place of Planted	Participants		Contribution by Company
					Male	Female	
June	10, 06	06	30 Kubuk (<i>Terminalia arjuna</i>)	Elamalwewa catchment area – Haguranketha (Photo 01, 02)	07		Provided Plants, Labors



Elamalwewa catchment area – Haguranketha

7.8 Tree planning program details NE 2

Not removed any trees in NE2

It has been given in high attention for environmental protection and conservation in the integrated road development project. Anticipated environmental issues and relevant remedial measures were identified prior to initiate the road construction work. While continuing the road, such precautionary measures were implemented at site.

Tree removing, soil excavation, unsuitable material dumping, rock blasting and soil compaction etc. are several such environmental concern activities. The pre-prepared site specific environmental management plan includes these all details in each road.

Out of that concerns, for the process of tree removing, it has been proposed to plant three number of new plants in any suitable places. During the process of base line data collection through transect walk in very beginning of this project, it has been identified remove some trees that very close to the road edge of several roads. However, by discussing with site engineers, design engineers and other relevant parties maximum effort was taken to avoid to removing trees. Hence, in the NE2 package there were not occurred removing any trees.



Saved trees in the road No 26-Kandapola -
Heathrest








Saved trees in the road No 24-Rahanwatta-
Maussella

7.9 Tree planning program details NE 3

Month	Road No	No of trees removed	type of trees planted with number	Pace of planted	Participants		Contribution by company
					Male	Female	
July 2016	48	01	300	Ruwanpura Area	10	12	300 trees donated via Sri Vijeyamangalaramaya Pansala to people of ruwanpura.
July 2017	33	04					
August 2017	49	13					
November 2017	36	07					



7.10 Tree planning program details KE 1

Month	Road No	No of Trees Removed	Type of trees planted with number	Species of planted	Participants		Contribution by company
					Male	Female	
January 2017	19		72	Mango, Atamba, Kumbuk, Madang and Anoda trees			
    							
April 2017	70		100	Madang, Tamarind, Neem, Pihimbiya, Bael	25	15	



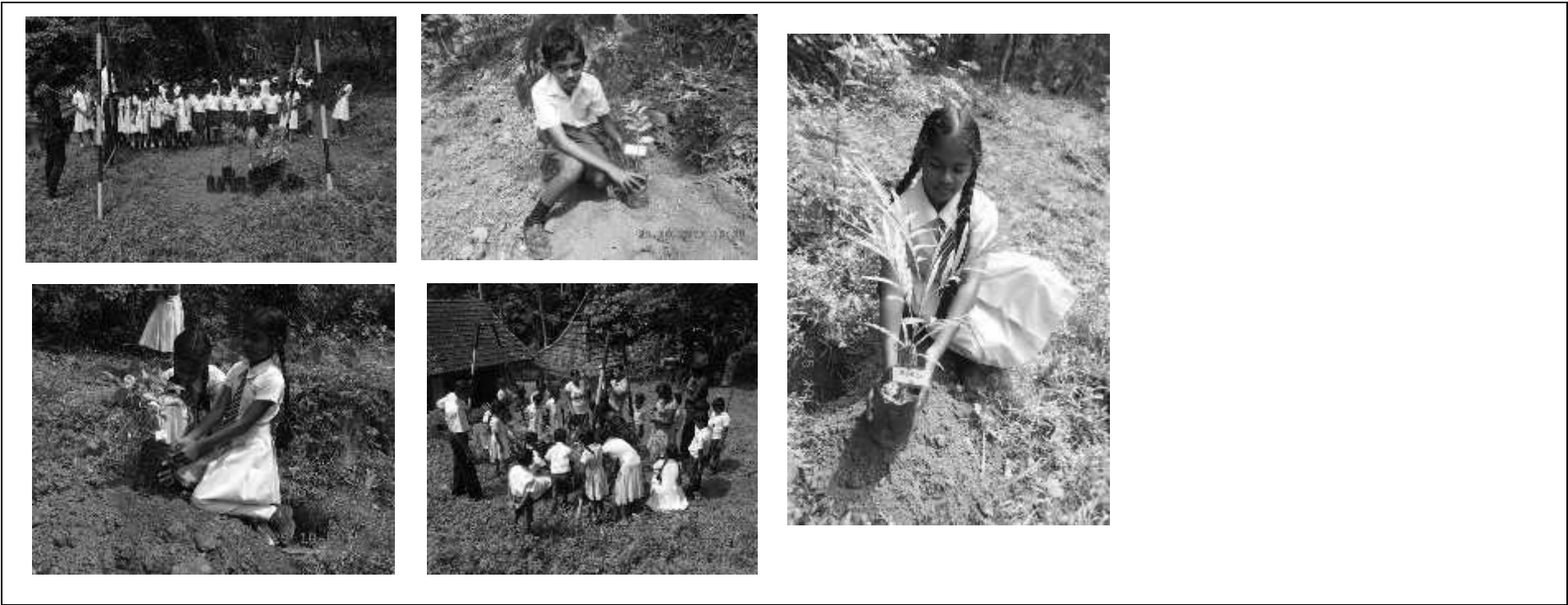
May 2017	16		250	Madang, Tamarind, Kumbuk, Neem,Pomegranate,Woodapple, Guava, Bael,Papaya, Anoda	95	50	
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June 2017	05		150	Bamboo	10	2	
	10		150	Madang, Tamarind, Kumbuk, Neem,Pomegranate,WoodappleGuava, Bael,Papaya, Anoda	200	140	



October 2017	19		50	Madang, Tamarind, Anoda, Pihimbiya	25	15	
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7.11 Tree planning program details KE 2

Month	Road No.	No. of Trees Removed	Type of Trees Planted with Number	Place of Planted	Participants		Contribution by Company
					Male	Female	
1.May,June,July,November	33		Goraka,Nutmeg,Beli, Divul,Kumbuk,Karanda -310	Home gardens			Dig holes, trees transportation
2.September,December	63		Divul,Kumbuk,Karanda,Na,Ehela - 200	Home gardens			Dig holes, trees transportation
3. August	20		Divul,Kumbuk,Karanda,Ehela -100	Home gardens			Dig holes, trees transportation
4.October	27		Divul,Kumbuk,Karanda,Na,Ehela - 100	Home gardens			Dig holes, trees transportation
5.July	24		Divul,Kumbuk,Karanda,Na,Ehela - 150	Home gardens			Dig holes, trees transportation



Road id-20



Road id-24





Road id-27



Road id-33



Road id-63

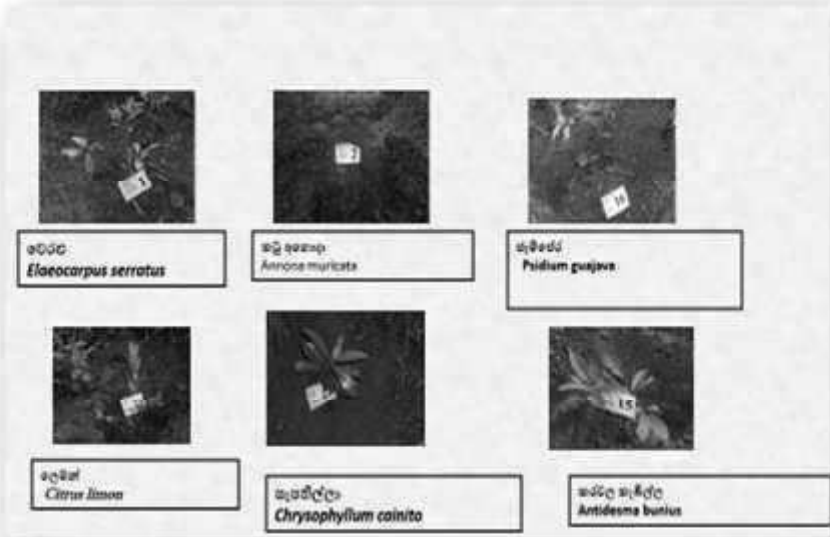


7.12 Tree planning program details KE 3

Month	Road No	No of trees removed	type of trees planted with number	Please of planted	Participants		Contribution by company
					Male	Female	
May	31	14	30	6 species	13	10	
July	31, 68,55,47	14, 1, 1, 4	30	5 species	08	02	







7.13 Tree planning program details R 1



Month	Road No	No of trees removed	type of trees planted with number	Places of planted	Participants		Contribution by company	Figure No
					Male	Female		
January	14	23	40	Home Garden	-	08	Yes	Fig:-4.1
May	11	48	20	School	12	14	Yes	Fig: 4.2
June	17	22	20	Temple and Home Graden	07	06	Yes	Fig: 4.3






7.14 Tree planning program details R 2

Month	Road No	No of Trees Removed	Type of trees planted with number	Please of Planted	Participants		Contribution by company
April	22	02	30	1+900-2+500	12	05	Provided fund
	32	02	18	0+000-4+750	7	2	
	33A	25	30	0+500-3+100	10	3	
May	33B	16	30	0+000-4+000	12	2	
	31	09	10	0+900-10+000	5	1	
	05	-	12	1+500-4+000	5	1	

7.15 Tree planning program details R 3

Month	Road No	No of trees removed	type of trees planted with number	Place of planted	Participants		Contribution by company
					Male	Female	
April			 <p>3 coconuts, 2 mangoes were planted</p>	Premises of accommodation	5		By Company workers
August	RD ID: 35			Existing trees were protected when Slope cutting			
November	04	25	300	Elamalpe, Ranwala GN division	40	60	

			 				
December	26	22	250	Pitakanda, Madalagama Janapadaya	30	40	Remaining will be planted in 2018
							


							
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7.16 Tree planning program details KL 1

Month	Road No	No of trees removed	type of trees planted with number	Please of planted	Participants		Contribution by company
					Male	Female	
September	92	32	Durian (durio zibethinus) -33	Sri Saylapushkararama tempel	22	17	Provide workers, Plants and refreshment
October	83	6	Mangosteen - 7 (Garcinia mangostana) Jack Fruit - 8 (Artocarpus heterophyllus) Rabutan - 3 (Nephelium lappaceum) Ceylon Olive- 5 (Elaeocarpus serratus)	Millaniya Kanitu Viduhala - Millniya	42	33	Provides plants and workers
October	93	-	Mangosteen - 13 (Garcinia mangostana) Jack Fruit - 10 (Artocarpus heterophyllus) Ceylon Olive- 10 (Elaeocarpus serratus)	Al-Gazzali Maha vidyalaya	68	23	Provides plants and workers



7.17 Tree planning program details KL 2

Month	Road No	Description of training programs (including topics of the program)	Resource persons	Participants		Contribution by company
				Male	Female	
January						
Feb						
March	ID 34	Awareness to workers to remove sediments in culverts to avoid blocking of drains and over flow of waters, and to minimize soil Erosion at their cuts.	PM	22	05	
April	ID 35	Awareness to identify areas required turfing and reinforce				
May	ID 53	Instructions to workers on proper road cutting with the a slope and Quick removal of soil as possible as.	PM	18	04	
July	Main Yard	Workers in the yard made aware to <i>avoid spills of diesel and lubricants</i> to the soil and methods of proper handling of		16	02	
Sep	ID 35	Workers made aware to avoid collection of soil and ABC in the constructed drains by applying proper turfing or filling with aggregates where the places with bents and slops to avoid Repeat work and soil erosion.		20	04	
Nov	ID 34,35,37,51&53	Awareness of workers in yard kopi yawaththa on waste management and prevention of soil erosion by proper draining	EO - KL2	22	02	
Dec	ID 34,35,37,51&53	Tool Box meeting 	Safety Officer	18	03	

Annex 6

Sample of progress report of tree planting programme

REHABILITATION / IMPROVEMENTS OF 74 Km OF RURAL ROADS IN THE KANDY DISTRICT

CONTRACT NO. RDA/ADB/IROAD (CP)/NCB/CP-RR (KA3)

Progress Report of Tree Planting Programme



Edward and Christie

1. Introduction

1.1 Basic Information of the Project

iROAD CP-RR (KA3) contract package is part of the Integrated Road Project funded by Asian

Serial No	D. S. D	No	Description	Road Category	Length (Km)
1	Gangawata Korele	5	Ogastawatta Wajirarama Road -Udaperadeniya Road	PS	1.96
2		6	Mahakanda Junction Mobre Samadi Mawatta via Sarasavigama Road	PS	3.32
3		7	Gurudeniya – Dambawela Bus Stand	PRDA	0.74
4		8	Dambawela Road, Kandy Talathuoya via Govi Janapadaya	PS	1.10
5	Pathahewaheta & Delthota	9	Hanththana, Uduwelawatta - Galaha town via Galahawatta, Kithulgolla	PS PRDA	9.45
6		10	Delthota town - Gabadagama Road	PRDA	7.59
7		11	Maussawa - Kolabissa Road	PRDA	3.70
8	Hatharaliyadda	37	Hatharaliyadda, Mahanuware main Road, cross Junction to Galagedara Minigamuwa main Road via polwattalhalagama	PS	3.75
9		38	Poththapitiya Weligodapola main Road to Patapola post office Alagalla primary school	PS PRDA	2.57
10		39	Hatharaliyadda, Rambukkana main road to Dedunupitiya post office to Weniwella Road via Kalotuwwa	PRDA PS	11.84
11		40	Hatharaliyadda Mawathagama main Road to Aludeniya school to paragoda Gonathenna Road	PS	4.63
12	Harispattuwa	48	Karaduwwawala Gatathale Road	PS	2.79
13	Poojapitiya	49	Bokkawala PahalaHigulwala via Miliyedda Road	PRDA	4.28
14	Akurana & Poojapitiya	49A	Vilala Pallegama - Watagoda Burton Watta	PRDA	1.89
15	Poojapitiya& Harispattuwa	50	Poojapitiya, Dodamthanna, Bothota , Antharagama , Pattiyawatta via Rajapihilla Road	PRDA	6.82
16	Akurana & Poojapitiya	51	Kasawatta Poojapitiya Road	PS	2.23
Total					68.66

Development Bank to improve provincial roads in the Kandy District. Project roads are located at Hatharaliyadda, Poojapitiya, Akurana, Gangawata Korale, Delthota and Pathahewaheta divisional Secretary Area of Kandy District. There are 16 roads will be rehabilitated / improved under this project. Total length of the all roads is 69 km. Following table shows details of the roads.

1.2 Contractual obligation in tree removal and tree planting program for the contractor

Environmental Management Action Plan mention that, action will be taken to avoid tree removal as much as possible may be considering the design revisions. However, if any tree removed under unavoidable circumstances, three trees will be planted for each removed tree as compensation.

According to the Environmental Management Plan (Volume 5 B),

- All efforts shall be taken to avoid tree cutting wherever possible
- Requisite permission from DS shall be obtained for cutting of roadside trees. Cut trees shall be handed over properly.
- Provision of compensatory afforestation shall be made on 1:3 ratio basis
- Provision shall be made for additional compensatory tree plantation
- Only native species will be selected with the advice of DoF for replanting and locations for tree planting will be as closer as possible to the tree removed
- Any leftover of trees shall be removed and disposed to disposal sites
- If road side space for tree planting is not available, other possible locations such as schools, public areas will be explored with the help of DoF, DS and CBOs of the area

1.3 Objectives and Outputs of the tree planting program

Primary objective of the tree planting programme is to compensate each and every tree removal during these road rehabilitation activities under unavoidable circumstances.

Secondary objectives and outputs of the programme are,

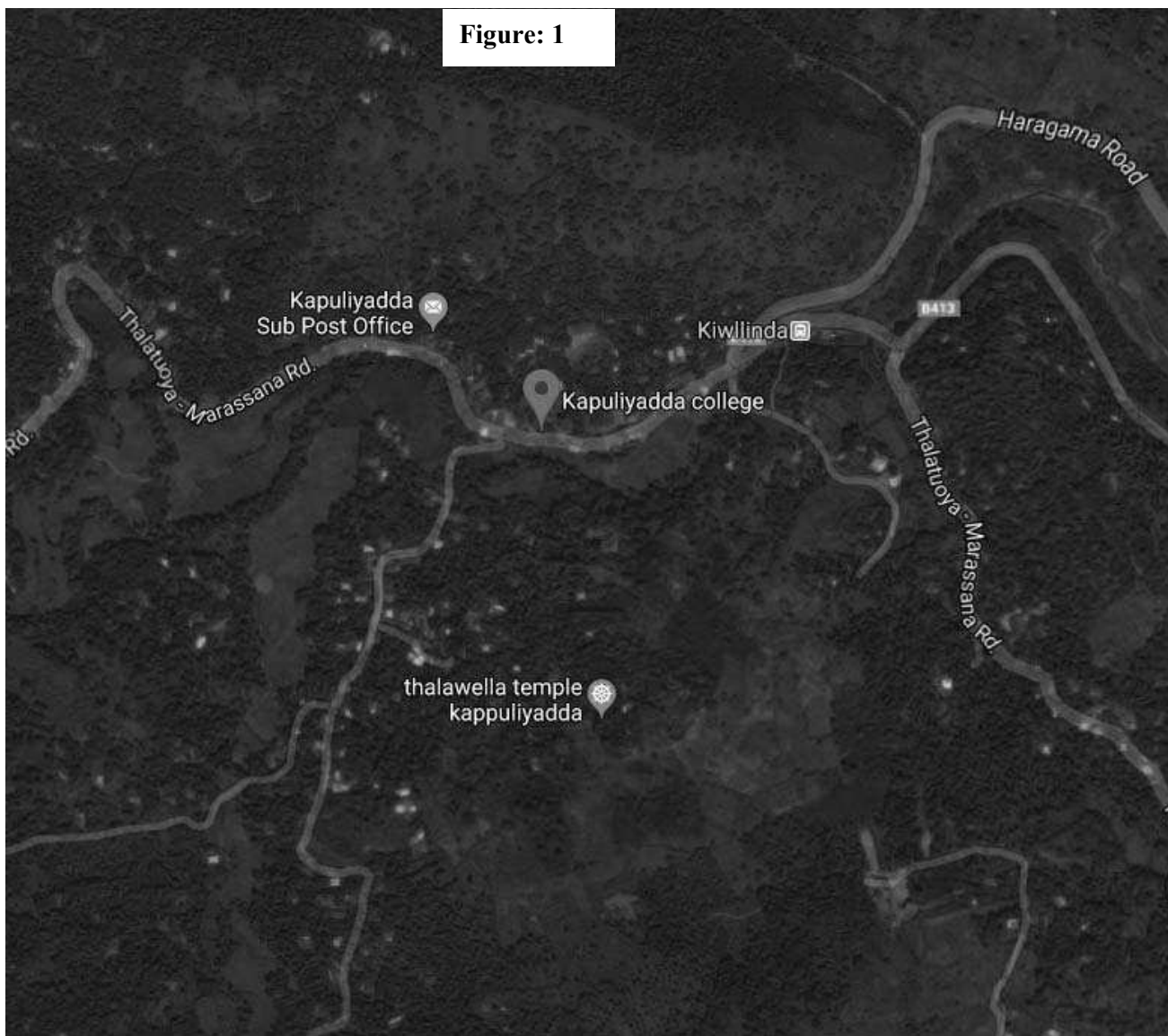
- Motivate school children to plant trees
- To improve outdoor recreational activities
- To increase oxygen pool of the ambient air
- To increase carbon dioxide absorption capacity by improving canopy thickness
- To reduce direct height of the rain water to the ground surface and reduce the soil erosion
- To increase retention time of the rain water within the top layer of the soil and increase the recharge capacity of the soil
- To reduce greenhouse gasses and fight climate change

2. Tree Planting Programme at Kapuliyadda Maha Vidyalaya - Thalathu Oya

47 plants planted on 14th July 2017

2.1 Location Maps

GPS Location - 7°14' 23.3" N 80°43' 03.0" E



School Map



Figure: 2

2.2 Tree Planted Area Map

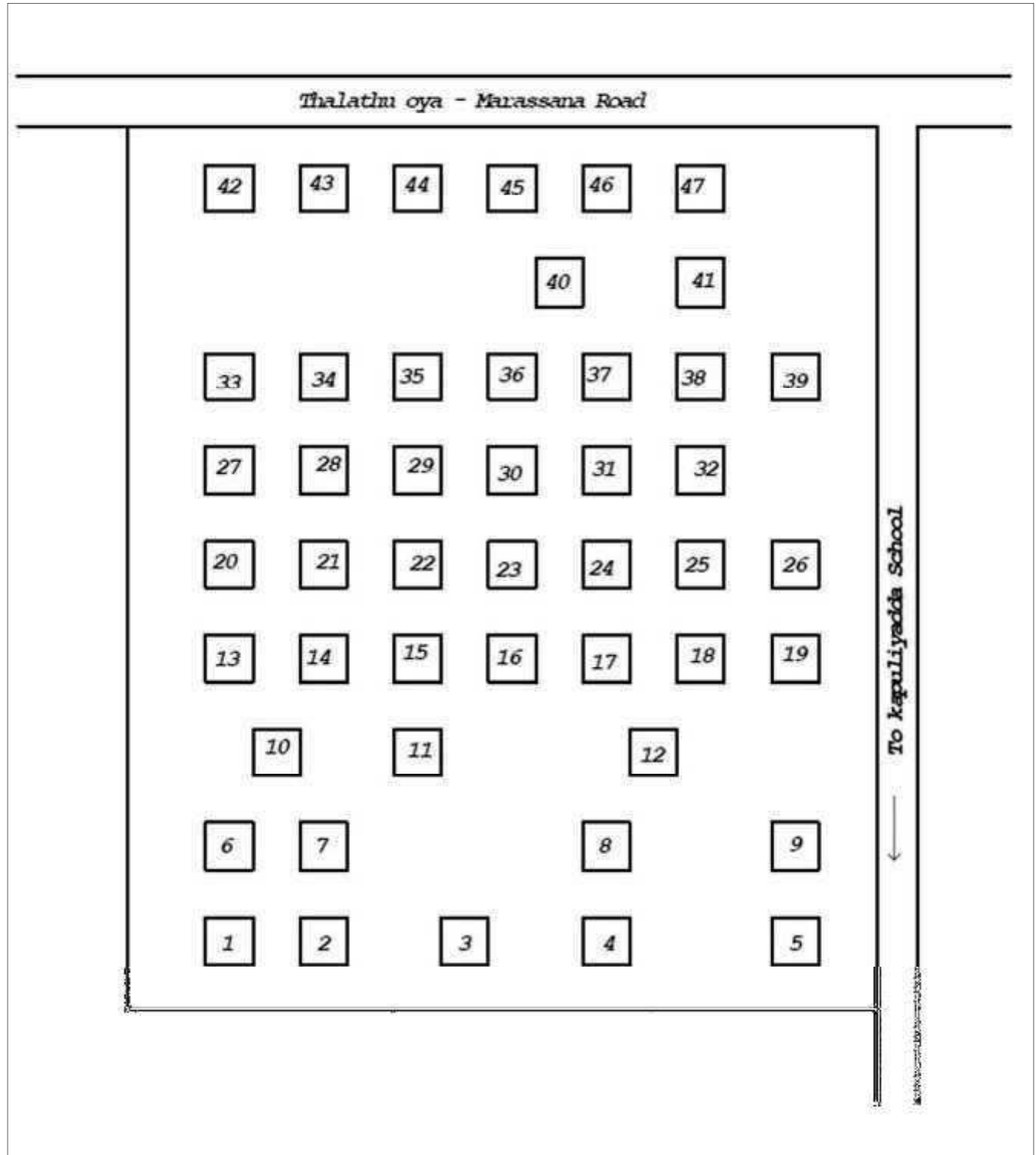


Figure: 3

2.3 Planted Tree List

1. Mango	25. Pera
2. Delum	26. Orange
3. Mango	27. Passion
4. Kamaranga	28. Orange
5. Mango	29. Orange
6. Mango	30. Orange
7. Kamaranga	31. Orange
8. Pera	32. Lemon
9. Passion	33. Orange
10. Mango	34. Orange
11. Kamaranga	35. Lemon
12. Kamaranga	36. Lemon
13. Passion	37. Lemon
14. Delum	38. Lemon
15. Delum	39. Nelli
16. Delum	40. Lemon
17. Delum	41. Pera
18. Delum	42. Lemon
19. Delum	43. Lemon
20. Delum	44. Passion
21. Delum	45. Lemon
22. Pera	46. Lemon
23. Pera	47. Passion
24. Nelli	

2.4 Photos of Tree Planting Programme



3. Tree Planting Programme at Sri Saranankara Junior School -Thalathu oya

34 plants planted on 7th October 2017

3.1 Location Maps

GPS Locations - 7° 14' 20.36" N, 80° 42' 1.96" E

Figure: 4



School Map



Figure: 5

3.2 Tree Planted Area Map

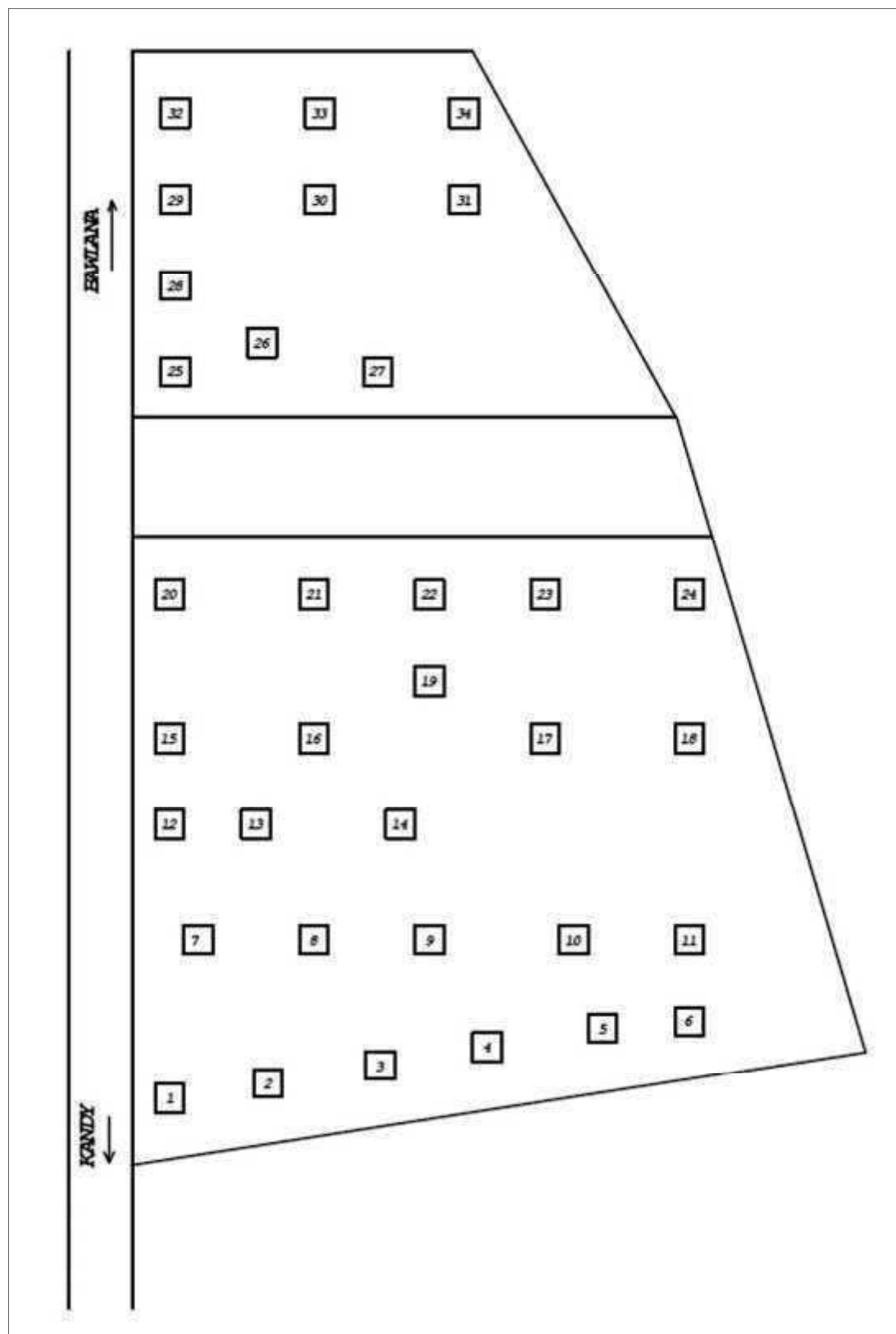


Figure: 6

3.3 Planted Tree List

- | | |
|---------------|---------------|
| 1. Jamanaran | 18. Mango |
| 2. Anoda | 19. Delum |
| 3. Nelli | 20. Pera |
| 4. Wood Apple | 21. Anoda |
| 5. Lemon | 22. Naran |
| 6. Kamaranga | 23. Karamba |
| 7. Beli | 24. Mango |
| 8. Karamba | 25. Rambutan |
| 9. Orange | 26. Lemon |
| 10. Orange | 27. Beli |
| 11. Anoda | 28. Mango |
| 12. Rambutan | 29. Delum |
| 13. Mango | 30. Jamanaran |
| 14. Jambu | 31. Kamaranga |
| 15. Jambu | 32. Uguressa |
| 16. Avacado | 33. Jamanaran |
| 17. Anoda | 34. Uguressa |

3.4 Photos of Tree Planting Programme



Annexure 7

Key Programs and Activities to Enhance Environment

Programs and Activities to Enhance Environment NE 1 package

Month	Road No.	Description of the Work Done	Type of Contribution done by Company	Benefits to the Environmental
May		Supported and joined to the solid waste management program that conducted by sirimawo bandaranayaka girls college haguranketha	Provided Vehicles, Refreshments and financial support.	In this event, solid waste in either side of the road along the haguranketha to randenigala (through kandehaniya and adhikariegama) collected by 12 groups local authority, Divisional Secretariat office Haguranketha and walapne, police, RDA, Mahaweli authority. (Photo 01,02)



Photo 01



Photo 02

Programs and Activities to Enhance Environment NE 2 package

Month	Road No /Place	Description of the work done	Type of contribution done by company	Benefits to the environmental	Photo No
	Rd 24	Action taken to noise level control in blasting activities	Carried out chemical blasting	Control the noise pollution by control blasting	2-01
	Rd 18 ,29	Flower planting along the side of the road	Flower plant planting and maintaining	Enhance the aesthetic value of the road	2-02 2-03
	Public ground /office premises	Implemented solid waste management during social events/offices	Preparation of low cost solid waste separation bins and placed	Control environmental pollution	2-04



Photo 2.02-Flower planting side of the road Rd 18



Photo 2.03-Flower planting side of the road Rd 29



Photo 2.04-Supply facility for solid waste separation at the function in public event -Ground Radella



Programs and Activities to Enhance Environment MA 2 package

Month	Road No	Description of the work done	Type of contribution done by company	Benefits to the environmental
June		World Environmental day Education program for Minipe School students & Government officers, 05.06.2017.	Company Resource person service Provided.	Encourage to Protect Sri Lankan biodiversity
July		Environmental Education programme for Athuraliya AGA Division school student's on 21.07.2017.	Transport ,Accommodation, Food and lecture's Provide by company	Encourage to Protect Sri Lankan biodiversity
September		Contributed Biodiversity survey at Proposed Environmental Sensitive Area, Mathale - Atipola Mountain Range.	Company Flora & fauna expert service Provided.	Involve to Protect Propose environmental Sensitive Area in Mathala.



World Environmental Day Education program at Minipe AGA office auditorium, 05.06.2017.

Annexure 8

Environmental training /awareness programs conducted during the program

8.1 Environmental training /awareness programs conducted during the program KA1

Month	Road No.	Description of Training Program	Resource Persons	Participants Male	Female	Contribution by Company
January	Office Staff	Environmental management during the office maintenance and road constructions	Environmental Officer	15	-	Facilitate and conduct the program
February	Office Staff	Aware the Biodiversity and snakes identify, snake bite and first aids	Youth Explores Club, Peradeniya	25	10	Facilitate and conduct the program
October	04 Senarathwela School (School Environmental Pioneer Group)	Aware the school children about the environment	Environmental Officer	15	20	Facilitate and conduct the program



Environmental management during
the office maintenance and road
constructions



Aware the Biodiversity and snakes identify, snake bite and first aids



Aware the school children about the environment

8.2 Environmental training /awareness programs conducted during the program KA 2

Month	Road No.	Description of Training Programs (Including Topics of the Program)	Resource Persons	Participants		Contribution by Company
				Male	Female	
February 2017	KRN 13	Conducting awareness programme on environmental management & safety during the road construction.(For University students)				
June 2017		Conducted awareness programme for World Environmental Day Theme - Connecting People with nature.				
August 2017		HIV/ AIDS Prevention & Health Awareness Programme.(Session 2)	Dr.Nayana Danapala Dr.Sarath Dahanayaka Dr.Kumudu Bandara			



Conducting awareness programme on environmental management & safety during the road construction. (For University students)



Conducted awareness programme for World Environmental Day



HIV/AIDS Prevention & Health Awareness Programme. (Session 2)

8.3 Environmental training /awareness programs conducted during the program KA 3

Month	Description of Training Programs (Including Topics of the Program)	Resource Persons	Participants		Contribution by Company
			Male	Female	
February	Awareness program for School Children – Mountain Biodiversity of Sri Lanka - Mahamaya Girls college, Kandy	Mr.R.M.M.D. Bandara Mr.Pradeep Samarawickrama		35	lectures Conducted (Fig. 40,41)
May	Biodiversity Awareness Program for School Children at Viharamahadevi Girls' College, Kandy - 2017.05.07 @ Gannoruwa Forest Reserve	Mr.R.M.M.D. Bandara Mr.Pradeep Samarawickrama		50	lectures Conducted (Fig. 42-46)
June	Biodiversity awareness Programme @ Pushpadana Girls' College, Kandy - 2017.06.07	Mr.R.M.M.D. Bandara Mr.Pradeep Samarawickrama		150	lectures Conducted (Fig. 47-49)
July	Health Awareness Program @ Delthota Muslim School, Delthota - 2017.07.29	Dr.Alahakoon Dr.Liyanage	25	125	93000.00 (Fig. 50-55)

August	Biodiversity Awareness Workshop for “Parisara Niyamu” Students at Ranabima Royal College, Gannoruwa - 2017.08.04 - 2017.08. 07 @ Sinharaja Forest Reserve	Mr.R.M.M.D. Bandara Mr.Pradeep Samarawickrama			lectures Conducted (Fig. 56-59)
August	Biodiversity Awareness Program for Students at Viharamahadevi Girls’ College, Kandy - 2017.08.16 @ Hanthana Mountain Range	Mr.Chaminda Lec.University of Ruhuna Mr.R.M.M.D. Bandara Mr.Pradeep Samarawickrama		40	lectures Conducted (Fig. 60,61)
August	Internal Audit @ Project Office Haloluwa	Mr.Kithsiri Pathiraja Mr.Senarath Thilakarathne	25	11	(Fig. 62,63)
October	Book Donation Program conducted on Children’s Day at Hanthana - 2017.10.01	Mr.W.G.Chamila Sanjeewa Mr.P.G.Wickramarachchi	23	35	(Fig. 64,65,66)
October	Awareness on ISO standards changes @ Wadakada Project Office	Mr.Kithsiri Pathiraja	12	1	lectures Conducted (Fig. 67,68)

December	Awareness on ISO standards changes - Project office	Mr.Kithsiri Pathiraja Mr.Senarath Thilakarathne	15	6	lectures Conducted
December	Training Program For Environmental Officers @ CE Office - Kiribathkubura	Pro. Bandara	20	4	lectures Conducted (Fig. 69-72)



Training Program for Environmental Officers @ CE Office - Kiribathkubura



Awareness program for School Children – Mountain Biodiversity of Sri Lanka -
Mahamaya Girls College, Kandy



Biodiversity Awareness Program for School Children at Viharamahadevi Girls' College,
Kandy



Biodiversity awareness Programme @ Pushpadana Girls' College, Kandy





Health Awareness Program @ Delthota Muslim School, Delthota



Biodiversity Awareness Workshop for “Parisara Niyamu” Students at Ranabima Royal College, Gannoruwa - 2017.08.04 -2017.08. 07 @ Sinharaja Forest Reserve



Biodiversity Awareness Program for Students at Viharamahadevi Girls' College, Kandy -
2017.08.16 @ Hanthana Mountain Range



Internal Audit @ Project Office Haloluwa



Book Donation Program conducted on Children's Day at Hanthana - 2017.10.01



Awareness on ISO standards changes @ Wadakada Project Office



8.4 **Environmental training /awareness programs conducted during the program MA 2**

Month	Road No	Description of training programs (including topics of the program)	Resource persons	Participants		Contribution by company
				Male	Female	
February	23	Bio-diversity conservation in Sri Lanka.(awareness programme)	Environmental officer-E&C Pvt.Ltd.	25	22	Rs.5000/=
June	Dambulla	World Environmental day –school programme.(awareness programme & field trip)	Environmental officer-E&C Pvt.Ltd.	24	23	Rs.15000/=
July	Athuraliya	Environmental Education programme for Athuraliya AGA Division school student's on 21.07.2017.	Environmental officer-E&C Pvt.Ltd.	174	187	Rs.35000/=
September	Mathale	Contributed Biodiversity survey at Proposed Environmental Sensitive Area, Mathale - Atipola Mountain Range.	Environmental officer-E&C Pvt.Ltd.			
	Dambulla	World children's day Education program for students (Prisara niyamu)	Environmental officer-E&C Pvt.Ltd.	14	23	Rs.5000/=



Welihena Maha Vidyalyaya - Athuraliya



Environmental Education programme for Athuraliya AGA Division school student's on 21.07.2017.



World children's day Education program

8.5 Environmental training /awareness programs conducted during the program MA 3

Month	Road No	Description of training programs (including topics of the program)	Resource persons	Participants		Contribution by company
				Male	Female	
June	27,42,40,41,39	World Environment Day	Environment officer of Naula Pradeshiya Sabha	363	398	CML-MTD Construction



World Environment Day

8.6 Environmental training /awareness programs conducted during the program NE 1

Month	Road No.	Description of Training Programs (Including Topics of the Program)	Resource Persons	Participants		Contribution by Company
				Male	Female	
March		Delivered a Lecture to A/L teacher about conducting A/L projects about Environment (Photo 01, 02)	Lecturer/ Author ; N.M.J. Nissanka –Environmental Specialist BSc (Geology) , PG Dip in Environmental Studies MPhil (Chemical Science) PhD -in progress	12	26	Provided Stationeries, Refreshments



Delivered a Lecture to A/L teacher about conducting A/L projects about Environment

8.7 Environmental training /awareness programs conducted during the program NE 2

Month	Road No /place	Description of training programs (including topics of the program)	Resource persons	Participants		Contribution by company	Photo No.
				Male	Female		
	Gamini vidyalaya –NE	Environmental/safety awareness program to educate the site officers	Senior officers of contractor /consultant	120	10	Organised the program	3-01
	All working road –NE2	Environmental/safety awareness tool box meeting to the workers	Senior officers of contractor	155	15	Organised the program	3-02 3-03
	Pre-school -NE	environmental education program	Environmental officer	15	18	Donated environmental guide books	3-04
	UC Area-NE	Conducted a solid waste management program	Sramadana program jointly with DoF -NE	30	20	Supply meals and refreshment	3-05
	Over the package -NE2	Compiled a leaflet on global warming and distributed	Leaflet prepared by Environmental officer			Printing and distribution	3-06
	In the handed over roads	Convey the message to protect the environment and road	PE,RE,CE and EO			Organising the program	3-07



Safety/environmental awareness meeting at road No 16



Safety/environmental awareness meeting at road No 29



Conducted a solid waste management program with Department of forest









Donation environmental guide book and lectured at UC pre -school, Nuwara Eliya



Distributed a leaflet on "Global Warming"



8.8 Environmental training /awareness programs conducted during the program KE 1

Month	Road No	Description of training programs (including topics of the program)	Resource Persons	Participants		Contribution by company
				Male	Female	
June 2017	10	Conducted a lecture on 'Environmental Protection and Waste Management	ESO of RDA, EO of Contractor	200	140	
     						
	16	Conducted a lecture on 'Environmental Protection and Waste Management	ESO of RDA, EO of Contractor			



8.9 Environmental training /awareness programs conducted during the program KE 2



Month	Road No.	Description of Training Programs (Including Topics of the Program)	Resource Persons	Participants		Contribution by Company
				Male	Female	
April	20	Awareness Programme on Importance of water and solid waste management	Environmental officer and teachers	65	29	Refreshments







Awareness Programme on Importance of water and solid waste management

8.10 Environmental training /awareness programs conducted during the program R 3

Month	Road No	Description of training programs (including topics of the program)	Resource persons	Participants		Contribution by the Company
				Male	Female	
January	Tires and containers that could Accumulate water were collected and stored safely with a cover to avoid breeding of Dengue mosquitoes R 02	 	PHI			Contributed with coordinating and providing facilities
		Environmental and Safety Awareness to the operators, staff and workers				

March	Main yard Thunthota Pallebedda		Environmental health & safety Manager of the Company	20	5	the Company conducted awareness for the workers on handling of chemicals Lubricants
April	Environmental Awareness Notice (Three Language) Board in Sinharaja Rain Forest					
	Road id 10					RR construction
May	Collected used cardboard & prepared Vesak lanterns for Vesak festival					

			To Promote the concept of reuse			RR workers and staff
June	Environmental and Safety Awareness Program conducted by the Company					
	For all the staff		For Environmental and Safety Officers Operators and Supervisors			Environmental and safety manager and resource persons hired by the Company

November	Awareness Program on Community Diseases for the community						
	RD ID 04			Environmental Health & Safety Manager	60	30	
December	R 26			Awareness for school children on environment			EO