

Environmental Monitoring Report

Semi-Annual Report no. 6
For the period covered July–December 2019
Project Number: 47381-002
April 2020

SRI: Mahaweli Water Security Investment Program – Tranche 1

Upper Elahera Canal Project (UECP)

Prepared by Ministry of Mahaweli Development and Environment with the assistance of Program Management, Design and Supervision Consultant (Joint Venture Tractebel Engineering GmbH – GeoConsult ZT GmbH) for Democratic Socialist Republic of Sri Lanka and the Asian Development Bank.

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Mahaweli Water Security Investment Program

Semi Annual Environmental Monitoring Report (SAEMR) No. 06 (July to December 2019) for Upper Elahera Canal Project (UECP)



**Ministry of Mahaweli Agriculture
Irrigation and Rural Development
Sri Lanka**



April 2020

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Project Number H.503409
Subject Project Report
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Project Title: **Mahaweli Water Security Investment Program**

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1 INTRODUCTION

1.1 Scope of the Report

1. This Semi Annual Environmental Monitoring Report (SAEMR) No. 6 is prepared to update the progress of Upper Elahera Canal Project (UECP) with respect to environmental safeguard aspects for the period of July to December 2019, which fulfils the Asian Development Bank (ADB) requirement to submit a SAEMR to ADB and Central Environmental Authority (CEA) for the “Category A” projects as documented in FAM¹ and EARF².

2. The purpose of this report is to ensure that the Project is implemented with due concern for environmental and social safeguards according to the ADB's Safeguard Policy Statement (SPS) 2009, and specifically to ensure that these issues are adequately addressed in compliance with the requirements of ADB. Further, this report is to assess the progress with implementation of the program in complying with the approved Environmental Impact Assessment (EIA) including Addendum to the EIA: UECP Tranche 1 packages (August 2017) and Environmental Management Plan (EMP)³ as per the stipulation No. 14.3 of the EIA approval No. 08/EIA/WATER/07/2012 issued by CEA on 23 February 2016, renewed approval by CEA on 11.03.19 by Letter Ref. Ref.08/EIA/Water/07/2012/ Vol 3, and approval for the addendum (Ref.08/EIA/Water/07/2012/Vol 2 dated 11 April 2018).

3. This SAEMR is prepared addressing the following aspects, based on the available information as of the monitoring period from July to December 2019:

- (i) Background/context of the monitoring report (adequate information on the project, including physical progress of project activities, scope of monitoring report, reporting period, and the monitoring requirements including frequency of submission as agreed upon with ADB);
- (ii) Qualitative monitoring data;
- (iii) Monitoring results compared against previously established benchmarks and compliance status (e.g., obtaining necessary approvals for establishment of certain facilities, national environmental emission and ambient standards and/or standards set out in the WB's EHS guidelines; timeliness and adequacy of environmental mitigation measures; and training, capacity building, etc.);
- (iv) Corrective action plan in any case of non-compliance or any major gaps identified;
- (v) Proposed items of focus for the next reporting period and due date.

4. This SAEMR for UECP is prepared by the Environmental Specialist of PMDSC based on the monthly monitoring and progress reports received from the Environmental Monitoring Specialists (EMS), and the updates that were received from the Environmental Specialist of PMU and Senior Environmental Officer for PIU of UECP.

1.2 Current status of UECP

1.2.1 Progress of active construction packages under UECP

5. There are two contracts financed under MWSIP Tranche 1 and 2 for which construction work started: UECP-ICB-1 and UECP-ICB-2B. The key details related to the active construction packages are summarized in **Table 1-1**.

¹ Paragraph 60 of Facility Administration Manual (FAM), June 2015 prepared by MMDE.

² Paragraph 111 of Environmental Assessment Review Framework (EARF) November 2014 (updated in June 2017) by MMDE.

³ Environmental Impact Assessment Report (EIAR) dated June 2015 and approved by CEA on 31.03.2016.

Table 1-1: Details of the UECP active contract packages as of December 2019

PACKAGE	UECP-ICB-1	UECP-ICB-2B
Work Description	Construction of Upper Elahera Canal from 0+100 km to 6+226 km	Construction of Upper Elahera Canal, Kaluganga - Moragahakanda Transfer Canal (KMTC) 0+000 km to 8+830 km
Environmental Significance of the Project Area	The proposed canal under UEC-ICB-1 passes through the Elahera-Giritale sanctuary area as a cut-and-cover canal.	<ul style="list-style-type: none"> ▪ Except for the short open canal, and two short aqueducts, KMTC consists of 2 tunnels that traverse through Forest Department (FD) lands ▪ Tunnel 1 - 1,940 m long (chainage 0+557.77 to 2+467.77 km), with overburden varying between 5 and 80 m. ▪ Tunnel 2 - 6,040 m long (chainage 2+732.77 to 8+772.77 km), with overburden varying between 6 and 378 m.
Package No.	MMDE/MWSIP/ADB/UECP/ICB-1/3267-3268-RI/ICB/2016/002	MMDE/MWSIP/ADB/UECP/ICB-2B/P47381-005-SRI/ICB/2016/026
Date of Award	11.11.2016	05.04.2018
Completion date:	As per the original program the contract was to be completed by 08 Jan 2020. Due to failure of meeting the timelines, the updated completion date is estimated as 31 May 2020.	As per the original program, the contract is to be completed within 36 months, i.e., by 10 September 2021
Name of the Contractor	M/s. CML-MTD Construction Limited	M/s. Sinohydro Corporation Limited
Address	No. 155, Dharmapala Mawatha, Colombo - 07	5 th - 7 th Floor, No. 456, R. A. De Mel Mawatha, Colombo 3.
Contract Amount LKR (incl. VAT)	3,742,442,875.47	8,218,575,075.94

6. The following sections provide a brief description of the physical progress of each contract package mobilized under UECP as of December 2019.

1.2.2 UECP-ICB-1

7. Package UECP-ICB-1 is behind the programme, and there are serious concerns about the financial stability of the Contractor (CML) and their contractual relationship to an investor associated with the package.

8. By end of the monitoring period of December 2019, there are 07 Milestones set by Amendment No. 02 and the milestones No. 01 and 02 are 100% completed. As per the work programme to be ended by 31 May 2021, current physical progress is about 44% against the target progress 65% at the end of December 2019.

9. Summary of the physical progress as of December 2019 by the UECP-ICB-1 Contractor M/s. CML-MTD Construction Limited is described in the Table 1-2.

Table 1-2: Summary of Physical progress in UECP-ICB-1 as of December 2019

Description	Status
Construction work:	<p>The construction activities of UEC ICB 1 (0+100 km to 3+980 km) are being carried out in 4 sections starting from the Moragahakanda spillway. The sections where the construction work is going on are as follows, ensuring that the excavated section at a stretch is limited to maximum 350 m:</p> <ul style="list-style-type: none"> (a) Section 04 - From 0+100 to 0+916; (b) Section 01 - From 0+916 to 1+420; (c) Section 02 - From 1+420 to 2+320; (d) Section 03 - From 2+320 to 3+980. <p>Physical Progress of the construction work as of December end 2019 is as follows;</p> <ul style="list-style-type: none"> ▪ Site clearing done in the sections where the excavation started, and other areas has been managed as the wildlife passages to ensure safe animal movements ▪ Tree felling - progress 100% <p>Excavation – progress 65 %</p> <p>Reinforcement and concreting:</p> <ul style="list-style-type: none"> ▪ rectangular conduit (Base) - progress 73% ▪ circular conduit - progress 30 % <p>Backfilling works with Reforestation: - progress 19 %</p>
Concrete batching plant:	<p>Batching plant installed and in operation; field laboratory in operation. However, the site cleaning, environment protection in batching plant area is very poor, and poor housekeeping practices which includes:</p> <ul style="list-style-type: none"> ▪ Dust covers broken and no maintenance as directed by engineer; ▪ Sedimentation tank, waste treatment in the batching plant area not functioning properly; ▪ Curing tank water in the field laboratory is stagnating and found to be mosquito breeding site
Construction activities (general)	Slow construction progress: inadequate manpower deployment and resources
Issues effect on progress	Financial difficulties of the Contractor have continued, resulting in further progress delays.

1.2.3 UECP-ICB-2B

10. KMTC tunnels under UECP-ICB-2B have encountered good rock conditions and should be able to catch up some of the past delays at start-up. Current physical progress is about 28.5% against the target progress 51% as per the original Cumulative Progress, at the end of December 2019.

11. Summary of the physical progress as of December 2019 by the UEC-ICB-2B Contractor M/s. Sinohydro Corporation Ltd. is described in the Table 1-3.

Table 1-3: Summary of Physical progress in UECP ICB 2B as of December 2019

Construction work:	Status: Completion 28.5%
Concrete batching plant:	Leloya - 100%, Kambarawa - 100% Issues related to storm water disposal, wastewater disposal not yet satisfactory, no sprinkler system to control dust are there, and no satisfactory response on required corrective measures, by Synohydro
Construction activities	<ul style="list-style-type: none"> ▪ Tunnel 1: 766.60 m/1,910 m Excavation ▪ Tunnel 2: 1,776.00 m / 6,040 m Excavation ▪ Tunnel Portal of T2 Inlet, T2 Outlet and T1 Outlet excavations completed and T1 Inlet portal clearing works in progress. ▪ Other structures: Cut and cover excavation completed Ch: 2620-2720, construction of Bridge no 2 - 60% completed

1.2.4 Progress of UECP packages to be awarded

12. The progress of bidding process and required environmental documentation work related to the UECP packages to be awarded under Tranche 3 of the MWSIP are summarized in the Table 1-4.

Table 1-4: Progress of UECP packages to be awarded

Package	Status
UECP-ICB-2A	Updated EMP completed and submitted with the Bidding documents. Bidding is in progress for UECP-ICB-2A construction package for which Technical Bid Evaluation Report approved by ADB on 04 September 2019. Financial bids opened on 11 September 2019. Draft FBER was sent to TEC for review.
UECP – ICB-3	Revised according to the SCAPC comments and submitted on 30 April 2019. ADB comments received on 11 July 2019. Bidding Documents completed to submit in early next quarter 2020. Addendum to EIA including updated EMP, highlighting the design changes to UECP ICB 3 compared to the approved EIAR for UECP is completed to submit in next quarter of 2020
UEC-ICB-5 under Phase 2	Feasibility Study Report is completed and was submitted in 06 December 2019 Once the Feasibility study report is approved, additional environmental screening shall be carried out prior to complete the addendum to EIA highlighting the key aspects which have not being studied under the approved EIAR in 2015 for UECP / KMTC.

2 ENVIRONMENTAL MONITORING FINDINGS

13. This section summarizes the key environmental issues recorded during the monitoring period from July to December 2019, and the corrective actions taken by the Contractor.

2.1 Qualitative records

2.1.1 UECP-ICB-1

14. As described in the earlier sections, due to lack of continuous progress of the construction work, the housekeeping of the site and construction areas is very poor, or significantly low. Other than such issues, Table 2-1 summarizes the specific issues noted and status of contractor's response attending required corrective actions.

Table 2-1: Summary of the monitoring findings related to UECP-ICB-1 with specific issues

Location ⁴	Issue recorded	Date of record	Corrective measure attended	Date
Section -1	Stream at 1+200, 0+800 are not functioning well, 26 December	21 Oct 2019	No action taken within the monitoring period	Pending
	Soil erosion due to incomplete stream diversion	30 Oct 2019	Added boulders to reduce water flow and reduced erosion to some extent	03 Nov 2019
Section -2	Diverted water path without reaching Welankatuwa Anicut, which impact the farmers cultivating under the anicut	3 Nov 2019	Backed filled the bypass and allowed the water to flow through the natural path.	10 Nov 2019
	Diverted again to manage local flood situation along the canal trace	23 Dec 2019		24 Dec 2019
	No latrine facilities for the sub-contractors and security personnel, and they use the adjoining wildlife area for open defecation	July 2019	Old toilet repaired and made awareness to the workers to use the toilet and prevented using DWC area	15 Oct 2019
Section 3	Edge of the canal collapsed due to heavy rain	03 Dec 2019	No action taken within the monitoring period	Pending
Section 4	Drain excavated outside the approved area, for dewatering purpose	24 December	Backfilled the trench	25 December
	Flood damages due to spill water from Moragahakanda reservoir	05 Dec 2019	Continued dewatering	Immediately

15. There was no Environment Officer (EO) at the site under the Contractor for about 2 months. The Engineer notified this to the Contractor on 01 Oct 2019, and the contractor recruited an EO by end Dec 2019.

16. In addition to above site-specific corrective actions, following good practices and general mitigation measures were adopted by the contractor's EHS team under the guidance and support from Employer and the Engineer:

⁴ Section 04 - From 0+100 to 0+916; Section 01 - From 0+916 to 1+420; Section 02 - From 1+420 to 2+320; Section 03 - From 2+320 to 3+980

1. Saved 3 trees in the protected area, by deviating the canal structure	<ul style="list-style-type: none"> On request from the Contractor (Ref. UEC-CML-PMDSC-L780 dated as 09 Sept 2019) structure of drainage crossing at CH 0+800 km was slightly deviated to save 2 large trees. Engineer informed contractor (Ref. UEC/ICB 1/CML MTD 673/675 dated as 03 Sept 2019) to turn Drainage Crossing at 0+792 km by 5 degree to save one tree.
2. Removal of mosquito breeding places in the project area	<ul style="list-style-type: none"> As per the discussion had at the environment progress meeting, and on the request from contractor (Ref. UEC-CML-PMDSC-L779 dated as 09 Sept 2019) used tyres by Moragahakanda project that likely to mosquito breeding at the staff camp
3. Submission of fresh MS for dewatering	<ul style="list-style-type: none"> Once observed that the dewatering is carried out without adopting standard measures, on 3 Dec 2019, resulting erosion, water pollution in the river at the downstream of Moragahakanda dam, contractor was asked to submit a proper MS. Contractor submitted the MS (Ref. UEC-CML-PMDSC-L857 dated as 13 Dec 2019)
4. Recommendation was made not to use Bamboo trees as a bio protection in the protected area	<ul style="list-style-type: none"> As a result of the joint inspection made on 26 Nov 2019, to observe achievements of the contractor related to Milestone 3, it was recommended to make a bio protection by planting bamboo trees along the steep slope at the RH side drain at 1+170 km to 1+203 km. ES – PMDSC recommended not to use of Bamboo trees as a bio-protection, in the protected area as Bamboo is a non-native tree, and some bamboo species become invasive. ES-PMDSC suggest using a soft engineering method to prevent erosion, and one of the native species we have selected to reforest the area can be planted if required.
5. Reforestation continued in the backfilled areas	<ul style="list-style-type: none"> Instructions were issued by the Engineer to continue reforestation work following below aspects as raised by the ADB safeguard team and DWC: <ul style="list-style-type: none"> (i) Maintain 5mx5m spacing for planting instead of 3mx3m considering the wildlife movements and plant density as the planted species are with widespread canopy (ii) Planting to be started keeping 5 m gap from the edge of the conduit (iii) The water loving, and with a large root system tree species (eg Kumbuk) should be planted at the stream side, but not closer to the edge of the conduit to avoid any damages to the conduit. (iv) Completion of backfilling and use of topsoil as per the instructions issued by DWC with a good soil layer for the plant growth. (v) Use of variety of native plant species, following the tree list given in the specification (considering the lost tree species during tree felling)

17. Photographic records during environmental monitoring under UECP ICB 1 are shown in Figure 2-1.

	
<p>Flooding and collapse banks in section 4 (December 2019)</p>	<p>Overflow Welankatuwa natural water ways due to block by canal (December 2019)</p>
	
<p>Lack of drainage and erosion, siltation at section 2</p>	<p>Dust barriers in the crusher and batching plant areas broken (Sept 2019)</p>
	
<p>Sub contractor's is not provided with toilet facilities and labourers entering the protected wildlife areas outside the approved boundaries for defecation (Sept 2019)</p>	<p>Burning waste / left over cigarette buds were observed which can cause wildfires (August 2019)</p>



Figure 2-1: Photographic records of Environmental Monitoring in UECP-ICB-1

2.1.2 UECP-ICB-2B

18. The environmental performance by the Synohydro has significantly improved except for some operational environmental issues observed during the monitoring period from July to December 2019.

19. Table 2-2 summarizes the specific issues noted and status of the Contractor's response attending to the required corrective actions.

Table 2-2: Summary of the monitoring findings related to UECP-ICB-2B with specific issues

Location	Environmental Issue	Date of record	Corrective Measure	Date Attended
Tunnel 2 outlet	Non treated wastewater sedimentation tanks	Sept 2019	Applied chemical treatment (HCL for reduction pH value of the wastewater)	12 Dec 2019
Tunnel 2 outlet	Poor solid waste management	28 Nov 2019	Collecting and store the plastic/polytene and papers and burring the garbage in earth	10 Dec 2019
Tunnel 2 outlet	Base of the cofferdam susceptible to soil erosion,	29 Oct 2019	Covered the cofferdam with tunnel muck to avoid the earth scouring	12 Dec 2019
Tunnel 2 outlet	Poor maintaining of elephant fence	Since Sept 2019	Maintaining as a routing work and power check weekly	2 week of Dec 2019
Slope cut near Bridge no.2 Kabarawa site	Poor maintenance of the covering sheet so some section has been exposed	Dec 2018	Area was completely covered	24 Dec 2019
Slope cut near Bridge	Earth drains prepared for removing water on the cut slope vertically	Sept 2019	Drain was covered with cement plaster	24 Dec 2019

Location	Environmental Issue	Date of record	Corrective Measure	Date Attended
no.2 at Ka-barawa site				
Batching plant at Lel Oya	Wastewater stored in the sedimentation pit without disposal		Wastewater use for washing sand	1 week of Dec 2019
	Higher pH value wastewater in sedimentation ponds attached to the Batching plant	28 Nov 2019	Applied chemical treatment (HCL for reduction pH value of the wastewater	12 Dec 2019
	Nonfunctioning settling tanks and absent of drain	Aug 2019	Building new setting tank and drain	13 Oct 2019
	No latrine for the workers in the batching plant area, which resulted water pollution in the surrounding area due to open defecation/ urination by workers	Aug 2019	Started building new toilet on 7 Oct 2019	Completed in Dec 2019
	No drinking water provided for the workers		Providing drinking water	6 Oct 2019

20. The summary of the Environment Noncompliance reporting (NCR) or issuing Environment Incident Records (EIR) during the reporting period is given in the Table 2-3.

Table 2-3: Summary of NCR and EIR issued during the monitoring period for UEC-ICB-2B

NCR / Env Incident records (Ref. No. & Date)	Subject	Response from the contractor (Ref/Date)		Corrective actions attended		Remarks as per EMS observations / close NCR etc	
		Ref No.	Date	Action	Date completed	Follow up letter Ref	Date
PMDSC-KMTC-RE/ICB-2B/ShCL/L49 7, 12 September 2019	NCR No. 003 for Poor housekeeping practices at workshops	L-KMTC-2019422	2 Oct 2019	Cleaned untidy areas; continue as a routing work	4 Nov 2019	NCR closed	2 Nov 2019
PMDSC-KMTC-RE/ICB-2B/ShCL/L49 8, 12 September 2019, 12 September 2019	NCR No. 004 for Unstable slope made at Bridge No. 2 of the section -f	L-KMTC-2019422	2 Oct 2019	As a temporary action area notified as unstable and was covered with tarpaulin sheet	16 Oct 2019	PMDSC-KMTC-RE/ICB-2B/ShCL/L 608	6 Nov 2020
PMDSC-KMTC-RE/ICB-2B/ShCL/L49 9, 12 September 2019	NCR No. 005 for Disposing excavated earth materials on the slope of access road section -f	L-KMTC-2019422	2 Oct 2019	Removed the dumped earth material from the slope area and arranged erosion protection measures	4 Nov 2019	NCR closed	2 Nov 2019

NCR / Env Incident records (Ref. No. & Date)	Subject	Response from the contractor (Ref/Date)		Corrective actions attended		Remarks as per EMS observations / close NCR etc	
		Ref No.	Date	Action	Date completed	Follow up letter Ref	Date
				with boulders			
PMDSC-KMTC-RE/ICB-2B/ShCL/L53 1, 24 September 2019	NCR No. 006 for environmental issues observed in the batching and crusher plants and operating without EPL	L-KMTC-2019422	2 Oct 2019	Improved the sedimentation tanks and prepared drains from plant to sedimentation tanks and obtained EPL	15 Oct 2019 and 9 Nov 2019	PMDSC-KMTC-RE/ICB-2B/ShCL/L 608	6 Nov 2019
PMDSC-KMTC-RE/ICB-2B/ShCL/L64 6, 6 December 2019	EIR for washing out access road at Bridge No. 2 and slope failure at Kabarawa site	Action was taken No response submitted in writing	06 Dec 2019	Reconstruction of course way with adequate water flow	6 Nov 2019		
PMDSC-KMTC-RE/ICB-2B/ShCL/L65 6, 16 December 2019	EIR for land slide and tree felling at the access road to Lel oya	Action was taken No response submitted in writing	16 Dec 2019	Removed the leaned and fallen trees with FD verbal approval taken through PIU	6 Nov 2019	Both trees have been removed	6 Nov 2019
PMDSC-KMTC-RE/ICB-2B/ShCL/L66 5, 19 December 2019	EIR for Water Spilling over the Bypass crossing at Kabarawa Oya	Action was taken No response submitted in writing	19 Dec 2019	Arranged foot path and introduced boat service to cross the Kabarawa oya	24 Dec 2019	Action was not approved by the engineer till end of the reporting period	Pending
PMDSC-KMTC-RE/ICB-2B/ShCL/L67 0, 20 December 2019	EIR for Water Spilling over the Bypass (Coffer Dam) crossing Kabarawa Oya	Action was taken No response submitted in writing	20 Dec 2019		25 Dec 2019		

21. Some photographic records on the key aspects during environmental monitoring under UECP-ICB-2B are shown in Figure 2-2.



Improper wastewater and storm water management in Batching Plant No. 01 and crusher plant at Lel Oya (Sept 2019)



Dust issues in the Lel oya area batching plant and Kabarwa portal (Sept 2019)



NCR No. 005 for Disposing excavated earth materials on the slope of access road section -f (Sept 2019)

After attending mitigation by slope protection and removing all loose material



Figure 2-2: Photographic records of Environmental Monitoring in UECP-ICB-2B

2.2 Quantitative records – UEC-ICB-2B

22. Arrangements have been made to carry out the environmental quality measurements through the Contractor by issuing a Provisional Sum Order (PSO) under BOQ item No. 6.2.2. The Terms of Reference (ToR) indicating the Scope of Work and the parameters to be monitored are prepared. CECB was selected to carry out the quality monitoring work, but the contractor was unable to retain them for sample collection within the reporting period.

23. The Engineer instructed that the Contractor shall started the monthly surface water quality measurements through the University of Peradeniya and the test results for July 2019 in both upstream and downstream of Lel Oya representing Tunnel 1 outlet and Tunnel 2 inlet portals have been submitted by the Contractor on 09 Sept 2019.

24. According to the results, all the water quality parameters are within the limits for proposed ambient water quality standards set by Central Environmental Authority (CEA). Annex 1 provides the test report for the reference.

3 ENVIRONMENTAL SAFEGUARD COMPLIANCE STATUS - UECP

25. The overall environmental safeguard compliance implementing the recommendations and conditions given in the EIA for UECP, conditional approvals issued by CEA and other stakeholder agencies such as DWC, FD and the ADB requirements are addressed by the Employer and the PMDSC, simultaneously with the environmental monitoring and supervision carried out on the contractor's CEMP implementation.

26. The activities and measures carried out during the monitoring period from July to December 2019 are briefly described under this chapter.

3.1 Compliance Status Related to the CEA Approval Conditions

27. **Table 3-1** summarizes the activities carried out jointly by the Employer and PMDSC to meet the conditions given in the CEA approval.

Table 3-1: Key Actions in Compliance with the CEA approval conditions

No.	Approval condition	Compliance status	Remarks
1	Preparation of Wildlife Management Plan (WMP)	Plan prepared and approved by CEA	Implementation in progress by PMU/PIU
2	Implementing recommendations of WMP	Implementation works of the WMP is in progress Work plan and activity plan prepared for implementation	<ul style="list-style-type: none"> 250 ha reforestation implemented (200 ha in Polonnaruwa Division and 50 ha in Kaluganga Area) GIS mapping completed in 5 tanks for ecological restoration – (Halmillewa wewa, Ritico wewa, Paburugaswewa, Pandithaya wewa, Etaweerawewa) Tank Restoration for habitats for fauna in (3 tanks: GIS mapping completed/ Engineering survey on going (Alistanwewa at Ritigala, Olumaduwa wewa and Weheragalawewa at Kaudulla NP) Eradication of Invasive Flora (<i>Mimosa pigra</i>) – 10 ha identified at Elehera – Giritale Sanctuary with DWC officials Establish elephant corridors – 10 elephant Corridors identified including Hurulu – Thumbikulama Model Elephant corridor. <ul style="list-style-type: none"> (i) Elehera – Moragahakanda (ii) Manankattiya – Labunoruwa (Bathalayaya) (iii) Ritigala – Labunoruwa (Unagollewa) (iv) Thumbikulama – Murungahitikanda (Thibalawewa)

No.	Approval condition	Compliance status	Remarks
			<p>(v) Inamaluawa – Diganpathaha (vi) Hurulu – Thumbikulama (vii) Minneriya – Rathmale (viii) Hurulu – Halmillewa (ix) Hurulu – Galapitagala (x) Habaran - Hiriwadunna (xi) Establishment of Thumbikulama – Hurulu Model Elephant Corridor</p> <ul style="list-style-type: none"> • Site selections are completed • Site selections are completed for establishing DWC beat offices (Kithul uthuwa beat - Polonnaruwa DWC Division and Mahakanadawa beat office – Anuradhapura DWC Division) • Awareness meetings on implementation of Wildlife Management Plan <ul style="list-style-type: none"> (i) Discussion on Establishment of Model Elephant Corridor at 2019.07.04 at Palugaswewa DS office and field visit 2019.05.18 with relevant stakeholders. (ii) Awareness meeting at Galanbidunuwewa DS office for Regional officials on 2019.07.29 (iii) Awareness meeting at Mahadiulwewa for Farmer Organization on 2019.09.06
4.a	Implementing recommendations of EIAR non-construction based, (e.g. reforestation)	<p>Preparation and signed a MoU for 50 ha. of reforestation in Kaluganga area with DFO division, Matale</p> <ul style="list-style-type: none"> • Plant production (30,000 nos.) • Purchasing Seedlings from outside of Nurseries (government or Private) • Survey and Preparation of maps • Land preparation (50 Ha) • Seedling transportation and Tree Planting. 	<ul style="list-style-type: none"> • Payment release to FD according to MOU conditions • 20,000 plants production in nurseries of FD at 2019 • Tree planting of 10 ha Naula range and 15 at Rabukoluwa under MoU, Matale.

No.	Approval condition	Compliance status	Remarks
		<ul style="list-style-type: none"> • Fertilizer Application • Maintenances for Five Years from the year 2019 to 2023 • Gap filling planting. • Establishment and Maintenance of Fire Belts (10 km) • Maintenance of Gliriseediya Planting in Fire Belts. <p>Preparation of a MoU for 200 ha. of reforestation in Polonnaruwa Division with DFO division, Polonnaruwa</p> <ul style="list-style-type: none"> • Reforestation of 100 ha of Elehera Reserve Forest & 100 ha of Hurulu Conservation • Plants production (44,000 plants) • Maintenances of established forest plantation from the year 2019 to 2023 • Improvement of existing plant nursery of Forest Department at Iirigeoya, Habarana • Removal of Invasive plant species of Lantana camara in the Elehera Reserve Forest, Galoya Forest Reserve and Hurulu Reserve (400 ha) • Rehabilitation of Existing Tanks (Milankulamawewa Tank and Bogahawewa) within Hurulu Forest Reserve <p>Nursery establishments and plant production, site preparation and tree planting in progress under restoration program of the canal trace ICB-01</p>	<ul style="list-style-type: none"> • 3 rural nurseries established (affected families of UEC Project) and 2,195 plants have been purchased by Contactor. • Approximately 200 m of canal trace has been restored and 265 plants are planted.

28. In addition to above following **Table 3-2** summarizes the construction-based activities involved by the Employer and the PMDSC with the Contractor and other key stakeholder agencies during the monitoring period.

Table 3-2: Construction based events carried out during the monitoring period

Date	Activity	Location
03 March 2019	Kekirawa FD on getting approval for Northern Tunnel Components - ICB -2A	RFO office, Kekirawa
04 July 2019	Meeting on establishment of an elephant corridors at Divisional Secretariat office, Palugaswewa	Palugaswewa DS Office
05 July 2019	Field visit to ICB-1 and discussion with wildlife official on issues related to night work	ICB-01
10 July 2019	FD, DWC, STC Polonnaruwa on MoU with FD for reforestation programme and DWC on getting approval for tunnel Components of Southern portal ICB-A	FD, DWC, STC offices, Polonnaruwa
22 July 2019	Field visit with STC, FD and DWC officials to Southern Portal area, Koduruwawa on the construction access roads to tree removal activities.	Southern Portal area, Koduruwawa
23 July 2019	Field visit to Horiwila Weda Madura on preparation of report for medicinal plantation at Hiriwadunne	Horiwila Weda Madura
07 August 2019	Field visit to DFO office, Anuradhapura, RFO office at Kahatagasdigiliya on preparation of MoUs with FD for Anuradhapura Division	DFO office, Anuradhapura, RFO office at Kahatagasdigiliya
16 August 2019	Field visit with DWC officials, Contractor and PMDSC officials to observe the proposed drainage system - ICB-01	ICB-01
30 August 2019	Field visit to Koduruwawa on boundaries demarcation and tree marking activities of ICB-2A	Koduruwawa
31 August 2019	Field visit Bakamuna, Damanayaya, Nikapitiya with officials of FD to purchase the required plants for reforestation programme under MoU with DFO Division, Matale	Bakamoona
03 September 2019	Habarana - Palugaswewa Model Elephant Corridor	Habarana
10 September 2019	Tree removal of ICB-01 at under crossings situated 0+800 km of ICB-01 to facilitate to drainage system and tree marking activities of ICB-2A, Koduruwawa with officials of FD	ICB-01 and ICB-2A
17 September 2019	Awareness Programme for the regional officials on construction activities - ICB-2A at ACME Hotel, Habarana	ACME Hotel, Habarana
24 September 2019	Bakamoona RPM office and Plant nursery on purchasing the plants for FD under MoU	Bakamoona RPM office
27 September 2019	Field visit to Namalpura, ICB-2A on the land requirement for new disposal site and DS office, Palugaswewa on tree removal of land belongs to DS - Palugaswewa	Namalpura, ICB-2A and DS office, Palugaswewa
01 October 2019	Field visit to Archaeology Department, Polonnaruwa on getting Archaeology Approval for ICB-2A, Koduruwawa	Archeology Department, Polonnaruwa

Date	Activity	Location
03 October 2019	Field visit to ICB-01 on env. Issues related to back-filling activities.	ICB-01
04 October 2019	Field visit to Kaluganga, Leloya (Outlet Portal of Tunnel No. 01) with officials of FD and STC on final-ize the tree lists by identifying the non-removal trees.	KMTC
08 October 2019	Kaluganga, Rambukoluwa on tree planting areas of Rabukoluwa under MoU by FD Matale	tree planting areas of Rabukoluwa
12 October 2019	Tree plant ceremony with FD, Rambukoluwa with relevant line agencies and FD under national tree planting day	Rabukoluwa
14 October 2019	Archaeology Dept. Office , DWC office and FD office , Polonnaruwa on tree removal and getting approval for ICB- 2A	DWC office and FD Office , Polonnaruwa
15 October 2019	Field visit with Env. Monitoring Specialist of PMDSC on env. Issues of ICB-1 prior to ADB visit and discussion with RE, PD and other relevant officials.	ICB-1
16 October 2019	Field visit with ADB Team ICB-01	ICB-01
17 October 2019	Forest Department of Matale on MoU with FD and Kandy, purchasing plants for office premises	Matale, FD
18 October 2019	Mahameegaswewa on getting approval for lands from FD for ICB-2A	Mahameegaswewa – ICB-2A
22 October 2019	Field visit to Koduruwawa with officials of FD on boundary demarcation and tree marking activities of disposal site and camp area	Koduruwawa –ICB-2A
23 October 2019	Anuradhapura Archaeology Dept., DFO office and DWC office on getting approval for ICB-2A.	Anuradhapura Archeology Dept., DFO office
24 October 2019	Field visit to ICB-01 on drainage system and tree planting activities	ICB-01
25 October 2019	Discussion on implementation of WMP with Env. Specialist, PMU and relevant officials at MWSIP office, Polipithigama	MWSIP office, Polipithigama
30 October 2019	Field visit to ICB-01 on env issue and Env. Meeting with PMDSC.	RE office, Elehera
31 October 2019	Anuradhapura, DFO office on the preparation of proposed MoU with FD	Anuradhapura, DFO office
05 November 2019	Field visit to Koduruwawa ICB-2A with officials of Archeology , Polonnaruwa on getting Archeology Approval	Koduruwawa ,ICB-2A
11 November 2019	Field visit with Env. Monitoring Specialist, PMDSC to ICB-01 on issues related to tree planting	ICB-01
13 November 2019	Progress Review Meeting ICB-01 at RE office, Elehera	RE office, Elehera
22 November 2019	Field visit to ICB-01 on env. Issues related to soil erosion	ICB-01

Date	Activity	Location
25 November 2019	Archaeological visit to ICB-2A, Namalpura on getting archaeological clearances for Northern Tunnel Components.	Mahameegaswewa – ICB-2A
02 December 2019	Field visit to FD Polonnaruwa on getting approval from FD for tree list and DWC	DFO office, Polonnaruwa
03 December 2019	Field visit to Namalpura ICB-2A with officials of Archaeology Department, Anuradhapura on getting Archaeology Clearance.	Namalpura ICB-2A
05 December 2019	Field visit to proposed office complex at Namalpura on getting approval for tree marking and CEA concurrence.	Namalpura ICB-2A
06 December 2019	Field visit to Naula FD office on reforestation activities under MoU.	Naula FD office
09 December 2019	Anuradhapura CEA office on getting approval for new disposal site of ICB-2A, Namalpura	Anuradhapura CEA office
10 December 2019	Field visit to RFO office, Naula and RFO office , Lagggala on purchasing plants for tree planting activities under MoU, Matale	RFO office, Naula and RFO office , Lagggala
18 December 2019	Visit to FD, Anuradhapura office and CEA office on getting approval for new disposal site at Namalpura , ICB-2A	Anuradhapura FD office and CEA office

29. There are number of meetings, training programs carried out during the monitoring period with the participation of relevant officers representing PMU, PIU, Engineer, PMDSC and the Contractor. A summary of the details is given in **Table 3-3**.

Table 3-3: Summary of the meetings and training conducted during the monitoring period

Date	Activity	Location
02 July 2019	Monthly Env. Progress meeting at KMTC and ICB-01 at RE office, Elehera and discussion at Horiwila Weda medura on proposed tree planting Programme.	RE's office, Elehera and Horiwila Weda medura
04 July 2019	Meeting on establishment of an elephant corridors at Divisional Secretariat office, Palugawewa	Palugawewa DS Office
2019 July 23	Field visit and discussion at Horiwila Weda Madura on preparation of report for medicinal plantation at Hiriwadunne	Horiwila Weda Madura
16 August 2019	Tunnel induction training for PMDSC and PIU Officers	Sino Hydro Meeting Room
16 September 2019	GRC Meeting followed with site visit - Kahagala/ Illukkumbura	Sri Wijesundararamaya Temple, Illukkumbura
	GRC Meeting -Puwakpitiya/ Pottatawela	Puwakpitiya temple
17 September 2019	awareness Programme for the regional officials on construction activities - ICB-2A at ACME Hotel, Habararana	ACME Hotel, Habararana
08 October 2019	School awareness program	CP/ Wilgamuwa/ Kahagala Prathamika Vidyalaya

Date	Activity	Location
	School awareness program	CP/ Wilgamuwa/ Puwakpitiya Kanishta Vidyalaya
12 October 2019	Tree plant ceremony with FD, Rambukoluwa with relevant line agencies and FD under national tree planting day	Rabukoluwa
25 October 2019	Discussion on implementation of WMP with Env. Specialist, PMU and relevant officials at MWSIP office, Polipithigama	MWSIP office, Polipithigama
28 October 2019	Discussion after field inspection with Forest Department Officers (Attendance attached in Annexure IV)	Knuckles Conservation Center, Illukkumbura
30 October 2019	Field visit to ICB-01 on env issue and Env. Meeting with PMDSC.	RE office, Elehera
31 October 2019	Discussion at Anuradhapura, DFO office on the preparation of proposed MoU with FD	Anuradhapura, DFO office
13 November 2019	Progress Review Meeting ICB-01 at RE office, Elehera	RE office, Elehera
18 December 2019	Visit and discussion FD, Anuradhapura office and CEA office on getting approval for new disposal site at Namalpura, ICB-2A	Anuradhapura FD office and CEA office

3.2 Grievance Redress Committee (GRC) Activities

30. The summary of the Grievance Redress Committee meetings carried out in the KMTC area are given in the Table 3-4 during the reporting period.

Table 3-4: Summary of the GRC meetings carried related to Environment Matters

Type of committee	GRC-Name	Members	No of meetings	No issues raised	Remarks
GN Level committee meeting	GRC Committee Meeting (Illukkumbura/ Kahagala)	Illukkumbura GN division: Grama Niladhari- Illukkumbura, SEO- PIU-MWSIP, Three other nominated villagers of Illukkumbura Kahagala GN division: Grama Niladhari- Kahagala, SEO- PIU-MWSIP, Three other nominated villagers of Kahagala	01	02	Refer Annex 2 for details
GN Level committee meeting	GRC Committee Meeting (Puwakpitiya/ Pottatawela)	Puwakpitiya GN division: Grama Niladhari- Puwakpitiya, SEO- PIU-MWSIP, Three other nominated villagers of Puwakpitiya	01	02	Refer Annex 3 for details

Type of committee	GRC-Name	Members	No of meetings	No issues raised	Remarks
		Pottatawela GN division: Grama Niladhari- Pottatawela, SEO- PIU- MWSIP, Three other nominated villagers of Pottatawela			

31. There are other meetings carried out as awareness sessions, informal communications under GRC mechanism and the Table 3-5 summarized such meetings conducted related to KMTC.

Table 3-5: Summary of the other meetings, awareness sessions conducted under KMTC

Type of event	Purpose	No. of participants	Location (GN-DS)	Date	Resource persons
Informal meeting with community consultation	Tree removal at the bends of section 'd' access road	07	Puwakpitiya GN Division	26 July 2019	Grama Niladhari- Puwakpitiya
Informal meeting with community consultation	Tree removal at the bends of section 'd' access road	06	Kahagala GN Division	26 July 2019	Grama Niladhari- Kahagala
Awareness	Aware school children on road safety on project related activities	18	CP/ Wilgamuwa/ Kahagala Prathamika Vidyalaya, Illukkumbura	08 October 2019	Principle, CP/ Wilgamuwa/ Kahagala Prathamika Vidyalaya, Illukkumbura
Awareness	Aware school children on road safety on project related activities	75	CP/ Wilgamuwa/ Puwakpitiya Kanishta Vidyalaya	08 October 2019	Principle, CP/ Wilgamuwa/ Puwakpitiya Kanishta Vidyalaya
Field inspection and discussion with Forest Department Officers	Unauthored clearing of forest beyond Section "f".	25	Knuckles Conservation Center, Illukkumbura	28 October 2019	MWSIP

4 PROPOSED ACTIVITIES FOR NEXT REPORTING PERIOD (JANUARY TO JULY 2020)

32. Environmental plan prepared by the Employer for the next reporting period is summarized in the Table 4-1.

Table 4-1: Environmental plan for next reporting period by Employer

Task	Date of Commencement	Expected Date of completion
Wildlife Management plan implementation		
- 5 tanks for ecological restoration (Halmillewa wewa, Ritico wewa, Paburugaswewa, Pandithaya wewa, Etaweerawewa)	01 January 2020	Continue in 2020
- Establishing DWC beat offices (Kithul uthuwa beat - Polonnaruwa DWC Division and Mahakanadawa beat office – Anuradhapura DWC Division)	01 January 2020	Continue in 2020
- Eradication program of Mimosa Pigra in Elehera – Giritale Sanctuary	01 January 2020	Continue in 2020
- Establishment of Model Elephant corridor (Hururlu – Thumbikulama)	01 January 2020	Continue in 2020
GRC Meetings		
- Awareness pro. on construction activities ICB-2A – Regional officials of DS, FD, DWC. CEA, GSMB, Archaeology etc. including relevant Grama Niladari)		
- Awareness pro. For farmer Organizations – ICB-2A		
Environment & Safety inspection for ICB-2A	01 July 2020	Continue in 2020
ICB-2A		
- Getting approval from relevant line agencies	01 January 2020	Continue in 2020
- Tree removal of tunnel portals, disposal sites, camp sites, access roads etc. and tree removal	01 March 2020	Continue in 2020
- Progress & site meetings	01 March 2019	Continue in 2020
Activities related to MoUs with FD		
- Field visits and monitoring with FD on implementation of other related activities of MoUs (Polonnaruwa Division – 200 ha. and Kaluganga Area - 50 ha.)	01 July 2019	Continue in 2019
Implementation of reforestation program under MoUs FD		
- Field visits and monitoring with FD on implementation of other related activities of MoUs	01 July 2019	Continue in 2019

Annex 1: Water Quality Monitoring Report at Lel Oya and Kabarawa Portal Areas



斯里兰卡Kaluganga-Moragahakanda输水隧洞工程项目部

KALUGANGA-MORAGAHAKANDA TRANSFER CANAL(KMTC) PROJECT

New Road, Guruwela, Laggala-Pallegama, SRI LANKA

Mobile:+077-2507748 Fax :

Email: sinohydromcanal@gmail.com

Our Ref: L-KMTC-2019377

Date: 09th September, 2019

Dr. Thomas Berberich,
The Resident Engineer of KMTC
Program Management, Design and
Supervision Consultants (PMDSC)
New Road, Guruwela,
Laggala-Pallegama, Sri Lanka.

Project: Construction of Upper Elaheera Canal Kaluganga-Moragahakanda Transfer Canal
(KMTC) 0+000 km to 8+830 km (UECP-ICB-2B)
Contract No.: MMDE/MWSIP/ADB/UECP/ICB-2B/P47381-005-SRMCB/2016/026
CONTRACT PACKAGE UECP-ICB-2B

Subject: Submission of Water Quality Reports in Both Upstream and Downstream of LelOya
from the Work sites.

Dear Sir,

Herewith we are submitting the Water Quality Reports analyzed by Department of Geology, University of Peradeniya, Sri Lanka in both upstream (US3) and downstream (DS3) of LelOya from the work sites (Tunnel 01 outlet and Tunnel 02 inlet) for month of July 2019 for your further action please.

Thank you.

Yours faithfully,



Chen Jixian
Project Manager
Upper Elaheera Canal (Kaluganga-Moragahakanda Transfer Canal) Project

Encl. Water Quality Reports in both Upstream and Downstream of LelOya

Cc:

- Mr. Lutz Roemer – Chief Resident Engineer, PMDSC
- Eng. S.A.A. Dharmasiri – Project Director, PIU
- Eng. BWMW Seneviratne Banda-Deputy Project Director, PIU

WATER QUALITY REPORT

- 1 Laboratory Sample No: KG/SW/UoP/3 (US3 & DS3)
 2 Date of Collection: 7/30/2019
 3 Sample Collected By: Laboratory Staff
 3 Report to be sent to: Upper Elaheera Cannel Project
 4 Source of Sample: Upstream & Downstream along the stream

	Parameter	Unit	Max P Level	US3	DS3
1	Temperature	C		29	29
2	Turbidity	NTU		1.6	2.2
3	Electrical Conductivity at 25°	micro	750	172	177
4	pH		6.5-8.5	7	7.2
5	Total Dissolved Solids	mg/L	500	200	212
6	Total Hardness (as CaCO ₃)	mg/L	250	90	96
7	Total Alkalinity (as CaCO ₃)	mg/L	200	152	164
8	Dissolved Oxygen	mg/L		Not Measured	
9	Total Phosphate (as PO ₄ ³⁻)	mg/L	2	1.52	1.84
10	Nitrate (as NO ₃)	mg/L	22	1	1.16
11	COD	mg/L		Not Measured	
12	BOD	mg/L	10	Not Measured	
13	Sulphate (as SO ₄ ²⁻)	mg/L	250	12	12.00
14	Fluoride	mg/L	1	0.2	0.2
15	Iron (as Fe)	mg/L	0.3	0.33	0.354
16	Copper (as Cu)	mg/L	1	Not Detected	Not Detected
17	Cadmium (as Cd)	mg/L	0.003	Not Detected	Not Detected
18	Lead (as Pb)	mg/L	0.01	Not Detected	Not Detected
19	Mn	mg/L		0.0010	0.0010
20	Ni	mg/L		Not Detected	Not Detected
21	Zn	mg/L		Not Detected	Not Detected
22	E.coli /in 100ml			Not Detected	Not Detected
23	Total Coliform / in 100ml		< 10	Not Detected	Not Detected

According to the SLS 614:2013, All parameters of the tested samples except Iron were within the standards

Total Iron is slightly higher than the required levels in both Upstream & Downstream samples.

According to the proposed ambient water quality standards (CEA), tested parameters are within the required levels.



Dr. Jagath Gunatilake
 Department of Geology
 University of Peradeniya, Peradeniya

Annex 2

Minutes of the GRC COMMITTEE MEETING (ILLUKKUMBURA/ KAHAGALA)

Date: 16. 09. 2019

Time: 10.30 a.m.

Venue: Sri Wijesundararamaya Temple, Illukkumbura

Participants: Refer attendance sheet

Discussion:

- (i) Welcome speech done by GN, Kahagala
- (ii) Key speech done by hon N. Uparathana Himi
- (iii) Mr. Kabeel (Senior Communication Officer, UECP) introduced about the project and scope of the meeting
- (iv) Mr. Kumarasinghe (Senior Resettlement Officer, UECP) spoke about the resettlement and social aspects of UECP and how to report a problem to GRC and how to resolve the particular problems
- (v) New GRC committee appointed
 - Mr. Sajeewa (Senior Environment Officer, UECP) spoke about the environmental concerns, current status of the project and the use of the access road for project activities
 - Mr. Kumarasinghe (Senior Resettlement Officer, UECP) asked the problems of the Villagers related with the project activities
- (vi) Chief priest requested to give immediate relief to the persons who victimized from project activities
- (vii) Villagers highlighted some important places of the access road which may have problems in access road development activities

Site Visit for Clearing Forest Land in Belgoda Forest Reserve in Matale, By the Contractor of ICB-2B (KMTC)

28 October 2019,

Attendance

	Name	Institute & Designation	Signature
01	W.A.C. Wasingoda	CGF / F.D.	
02	Mahinda Seneviratna	CF / F.D.	
03	H.M.A.B. Herath	DPO / Matale	
04	P. Mooneswari	Env. Sp. / OMA-MWSP	
05	B.W.W. Senewiratne Bandu	UECP-PIU / APD	
06	S.S. Kusolla	UECP-PIU / SEO	
07	R.M. Premawardena	PMDS - EMS	
08	N.T. Kumara	Sinohydro / EO	
09	Qiao Hai Tao	Sinohydro / DPM	
10	K. Illankulam	Forester / F.D.	
11	W.W.M.S.K. Weerasingha	BFO / F.D.	
12	A.V.D. Amarasingha	RFO / F.D.	
13	B.S. Kabal	Sr. com. ofr - UECP	
14	S.A.J.W. Jayasinghe	RPSI	
15	T.M.P. Sijeeva	P.M.U.	
16	N.A.P.P. Amarasingha	K.M.T.C.	
17	N.D.K. Phibbala	K.M.T.C.	
18	P.C. Bandula	PMDS	
19	V. S.S. Seneviratna	Driver	
20	A.P.R.K. Seneviratna	Driver	
21	G.K.N. Nishantha	FA / Forest	
22	A.H.S. Karunasena	FA / Forest	
23	R.G. Seneviratna	FA / Forest	
24	A.M. Upali Ranbanda	FEO / Anuradhapuram	
25	M.S.S. Jayasingha	R.F.O. / Matale	

Annex 3

Minutes of the GRC Committee Meeting (Puwakpitiya/ Pottatawela)

Date: 16. 09. 2019

Time: 12.30 p.m.

Venue: Puwakpitiya temple

Participants: Attached the attendance sheet

Discussion:

- (i) Welcome speech done by Mr. Kabeel (Senior Communication Officer, UECP) and introduced about the project.
- (ii) Mr. Kumarasinghe (Senior Resettlement Officer, UECP) explained about the GRM of the project and separate book is to be maintained in Grama Niladhari office.
- (iii) Mr. Kumarasinghe (Senior Resettlement Officer, UECP) asked for the problems with villagers related to the project activities.
- (iv) Villagers explained on some places which have problems in road widening.
- (v) New GRC committee has appointed.
- (vi) Mr. Sajeewa (Senior Environment Officer, UECP) explained about the current status of the project and importance of access road to the project the challenge of doing a construction project in an environmental sensitive area.
- (vii) GM Puwakpitiya asked a resident to thanksgiving and summon the meeting.

Annex 4

Photographic Evidences Related to Chapter 4



Tunnel induction training for PMDSC and PIU Officers (2019/08 /16)



Discussion of erection of gate and security hut at elephant fence section 'e' (2019/ 08/ 20)



Site inspection with government stakeholder organizations on (2019/ 08/ 23)



GRC Meeting followed with site visit -Kahagala/ Illukkumbura (16. 09. 2019)



GRC Meeting -Puwakpitiya/ Pottatawela (16. 09. 2019)



CP/ Wilgamuwa/ Kahagala Prathamika Vidyalaya (08. 10. 2019)



CP/ Wilgamuwa/ Puwakpitiya Kanishta Vidyalaya (08. 10. 2019)



Tree Planting Program -Rambukoluwa (2019/ 09/ 12)



Joint Site Inspection (2019.09.06)



ADB Site Visit (2019.10.17)



Site inspection of Damaged Forest Area with Forest Department Officers 2019.10.28



Tree donation to CP/ Wilgamuwa/ Kahagala Prathamika Vidyalaya