

Environmental Monitoring Report

Project Number 42459-014
Loan 3431
Semestral Report
July to December 2018

August 2019

Sri Lanka: Local Government Enhancement Sector Project Additional Financing (LGESP-AF)

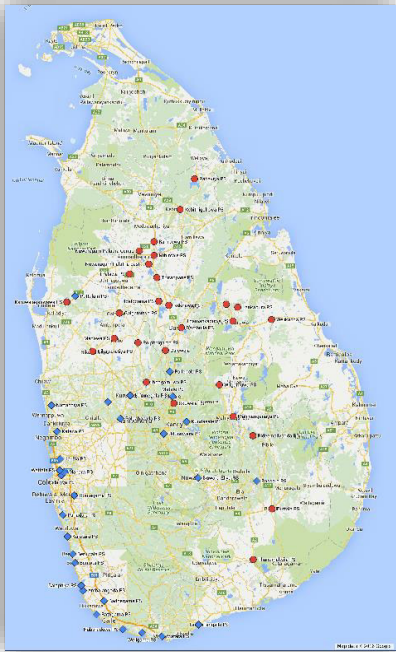
Prepared by LGESP (Pura Neguma) Project Management Unit for the Ministry of Internal & Home Affairs and Provincial Councils & Local Government (Formerly named as “Ministry of Provincial Councils, and Local Government and Sports”), Colombo, Sri Lanka and the Asian Development Bank.

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**Government of Sri Lanka
Ministry of Provincial Councils and Local Government**



**Semi-Annual
Environmental Safeguards
Monitoring Report
(As on 31/12/2018)**

December 2018

**Local Government Enhancement Sector Project
- Additional Financing
ADB Loan Number 3431 - SRI**



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Executive Summery

Asian Development Bank (ADB) approved the Local Government Enhancement Sector Project (LGESP) on 29 September 2011 and the project became effective on 29 November 2011. LGESP is a key infrastructure initiative of the Government of Sri Lanka which aims to improve the effective delivery of local infrastructure and services by local authorities in less-developed areas of Sri Lanka through the provision of improved water supply, sanitation, roads and bridges, drainage infrastructure, solid waste management, and public facilities. LGESP includes institutional strengthening and capacity building of the central, provincial and local agencies enabling to enhance the productivity of the local service delivery.

The purpose of the proposed additional funding is to further improve the initiatives of LGESP. The additional financing is required to implement the schemes of providing safe drinking water to the identified areas affected by Chronic Kidney Diseases (CKD) in Central, North Central, North Western and Uva Provinces and to take up development initiatives in additional 29 *Pradeshiya Sabhas* which are not covered under two ADB assisted projects, i.e., Local Government Infrastructure Improvement Project and the current project, LGESP, for initiatives of infrastructure improvement and institutional strengthening. The additional financing would also cover strengthening of capacity building and/or institutional strengthening activities taken up under the current project for all local authorities covered both under current and additional financing.

The LGESP – AF project will consist of three components. **Component 1** covers physical investment for improvement of water supply systems in identified CKD affected areas of Central Province, North Central Province, North Western Province and Uva Province; **Component 2** covers local infrastructure and basic service delivery improved in 29 local authorities to be funded under additional financing; and **Component 3** covers local government policy reform and capacity building supported in all the project local authorities.

This semiannual report on Environment Safeguard gives the overall physical progress with environmental compliance status of Category “B” sub projects for which IEEs have been prepared as per ADB SPS coming under Component 1. In addition, status of physical progress of Category “C” sub projects coming under component 2 have also been annexed. Physical progress of both components are given as at 31st December 2018.

Total no of IEE reports prepared for sub projects is twenty six of which progress is discussed here. Out of twenty six, twelve sub projects were under pre- construction phase and their physical progress were not significant for reporting at this stage. The safeguard report status and overall physical progress of twenty six sub projects gives in the **table 1**.

Table A of Annexure 3 gives the status of sub projects that are at pre -construction phase which is twelve in number. Out of twelve sub projects, one sub project had been dropped due to non- availability of a suitable water source while other three due to lack of required funds. Compliance monitoring status of thirteen sub- projects which are in the construction phase is given in the table B of Annexure 3. This table gives the cumulative physical progress of each sub project and compliance status of migratory measures given in the EMoP as against each monitoring parameter.

Further it is stated here that no significant environmental issues observed during this reporting period. Although no serious issues observed, there had been few incidents during this 2nd half of year 2018 with regard to non-compliance to some migratory measures which were

highlighted in the 1st half of 2018 ,amidst several instructions given to Project Managers. These issues were related to use of PPEs and disposal of wastes. For instance, as many of workers are from the villages around the project area , they seems to be not very used to wearing specially the safety Boots. This was later resolved having explained them of the risk of legs being injured by not wearing Boots while working. It is also emphasized here that whenever this type of thing had arisen ,Environment Safeguard Managers had been able to correct it by providing necessary guidance and advice to the Project Manager and Site Supervisor ensuring the environment safeguard and occupational and public safety. Summery compliance (table B of Annexure 3) reveals that many of the issues highlighted in the 1st half report has been resolved.

Local Government Enhancement Sector Project - Additional Financing - (Loan No. 3431 - SRI) Semi-Annual Environmental Safeguards Monitoring Report (Report - As on 31 December 2018)

1. INTRODUCTION

1.1 Overall project description and objectives

The project will consist of three components. Component 1 covers physical investment for improvement of water supply systems in identified CKD affected areas of Central Province, North Central Province, North Western Province and Uva Province; Component 2 covers local infrastructure and basic service delivery improved in 29 local authorities to be funded under additional financing; and Component 3 covers local government policy reform and capacity building supported in all the project local authorities.

1.2 Description of Components

The project is designed with three components with different sub-projects as below:

Component 1: Water supply systems in CKD affected areas improved - This component will provide support to improve water supply systems in areas affected by Chronic Kidney Diseases.

Component 2: Local infrastructure and basic service delivery improved - This component will provide financing to Local Authorities for Eligible Subprojects. The subprojects are selected through a consultative process based on the demands of the locality and include various projects like (i) Roads and Bridges; (ii) Water Supply; (iii) Sanitation; (iv) Drainage; (v) Solid Waste Management; and other basic facilities including (vi) community-based buildings or (vii) enhancing health centers and (viii) public markets etc.

Component 3: Local Government Policy Reform Advance and Capacity Strengthened - This component will support (i) Local Authorities to implementing the guidelines developed under the capacity development TA (ii) establishment and implementation of IT solutions in new *Pradeshiya Sabhas*; (iii) continuation of support and improvement of IT solutions in the original 108 *Pradeshiya Sabhas* and increase efficiency of local administration, (iii) support for implementing reform plans in the original and new *Pradeshiya Sabhas*; and (iv) capacity building programs to strengthen technical, financial, and administrative capacity of the original and new *Pradeshiya Sabhas*, provincial councils, and MPCLG Project Financing

1.3 Environmental category of the sub-projects.

The water supply subprojects in CKD affected areas taken up under component 1 and the water supply projects taken up under component 2, which could have some adverse environmental impacts fall under Category "B". The overall categorization of the LGESP is "B".

1.4 Details of site personnel and/or consultants responsible for environmental monitoring.

The project has an "Environmental Safeguard Specialist (PMU)" at central level i.e. the Project Management Unit and at the provincial level, each province Subproject Coordination

Unit(SPCU), a Safeguard Manager (Social, Environmental and Gender) will look after the Environmental Safeguard issues. These officers in the project are supported by the “Safeguard Expert” of the Project Management Consultants at National level and “Safeguard Expert” of the Design and Supervision Consultants at Provincial Level who are hired during the design period.

1.5 Description of Sub Projects Status of completion, approval and disclosure of safeguard documents (environment).

The status of completion, approval and disclosure of safeguard document (environment) is given vide **Appendix 1**

- **Project-based Document**

As per the ADB's Safeguards Policy Statement (SPS - 2009), Environmental Assessment and Review Framework (EARF) (updated) has been prepared and approved by ADB.

- **Subproject-based Documents**

As per ADB approved EARF, Initial Environmental Examination (IEE) reports for “Category B” and Due Diligence Reports – Environment (DDR – Env) for “Category C” are recommended to be prepared for each of the sub project. Progress of Category “C” projects will not be discussed in this report. Only a list will be provided for reference.

1.6 Overall “ B” category sub-project progress and status

The status of Safeguard reports and overall physical progress of “B” category sub -projects are given in the **table 1** below.

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
Central Province								
Component 1: Water supply in CKD affected areas								
The works included construction of water supply related buildings, installations of electrical and machineries, laying of pipelines								
01	Renovation of existing Treatment Plant at Dambulla	CP-AF-WS-CKD-11	IEE report approved by ADB.			✓		100%

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
02	Water Supply Schemes for Enasalmada and Pahaladiggala	CP-AF-WS-CKD-12	IEE report approved by ADB.		✓			N/A .
03	Water supply extension to Dambulla(rural) and Kandalama	CP -AF-WS- CKD - 10A	IEE report ADB approval Pending		✓			N/A
04	Water supply extension to inamaluwa and Kithulhitiyawa	CP -AF-WS- CKD - 10B	IEE report ADB approval Pending		✓			N/A
05	Water supply extension to Sigriya and Habarana.	CP -AF-WS- CKD - 10C	IEE report approved by ADB.		✓			N/A
06	Water supply extension to thithawegolla and Galewela	CP -AF-WS- CKD - 10D	IEE report approved by ADB.		✓			N/A
North Central Province								
Component 1: Water supply in CKD affected areas								
The works included construction of water supply related buildings, installations of electrical and machineries, laying of pipelines								
07	Water Supply Extension to Uttupitiya (from Kekirawa Water Supply Scheme)	NCP-AF-WS-CKD-01	IEE report approved by ADB.			✓		100%
08	Capacity Improvements to Minneriya Water Treatment Plant	NCP-AF-WS-CKD-20	IEE report approved by ADB.			✓		95%

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
09	Water Supply Extensions to Bendiwewa	NCP-AF-WS-CKD-21	IEE report approved by ADB.			✓		100%
10	Water Supply Extensions to (i) Mahalluppallama & (ii) Thirappane area from Kekirawa water supply scheme	NCP-AF-WS-CKD-02	IEE report approved by ADB.			✓		69%
11	Capacity improvements of Nuwarawewa WTP	NCP-AF-WS-CKD-04	IEE report approved by ADB.		✓			3%
12	Water supply extension Elagamuwa - Main and distribution lines	NCP-AF-WS-CKD-03	IEE report approved by ADB.			✓		39.8%
13	Extension of pipe lines to Sewagama Canel-3 area and Transmission on main extension up to Sewagama Water Tower	NCP-AF-WS-CKD-07	IEE report approved by ADB.			✓		12%
14	Water Supply Extension to Tambala	NCP-AF-WS-CKD-08	IEE report approved by ADB		✓			Mobilization.
15	Improvements to Klawewa Treatment Plant at Ihalagama	NCP-AF-WS-CKD-06	IEE report approval is in progress.		✓			N/A

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
16	Water Supply Schemes in (i) Uruwewa and (ii) Abeyapura of Padaviya and (iii) Thibiriwewa of Kebithigollawa	NCP-AF-WS-CKD-09	IEE report preparation is in progress.		✓			N/A.
17	Improvement to the Treatment plant Minneriya and Distribution Network Hingurakgoda	NCP-AF-WS-CKD-13	IEE report preparation is in progress.		✓			N/A-
18	Rehabilitation to Tissawewa Treatment Plant	NCP-AF-WS-CKD-22	IEE report preparation is in progress.		✓			N/A
North Western Province								
Component 1: Water supply in CKD affected areas								
The works included construction of water supply related buildings, installations of electrical and machineries, laying of pipelines								
19	Water supply extensions to Ibbagamuwa	NWP-AF-WS-CKD-05A	IEE report has been			✓		95%

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
	Supply and Installation of pumps, treatment plant equipment and accessories for Ibbagamuwa water supply scheme	NWP-AF-WS-CKD-23	approved by ADB.			✓		100%
20	Extension of water supply scheme of Nikaweratiya-Ambanpola	NWP -AF-WS -CKD-14A	IEE report has been approved by ADB.			✓		16%
21	Water Supply Scheme for Karuwalagawewa	NWP-AF-WS-CKD-15	IEE report approval is in progress.		✓			N/A
22	Extension of water supply scheme of Giriulla, Dambadiniya WSS	NWP-AF-WS-CKD-17	IEE report preparation is in progress.		✓			N/A
Uva Province								
Component 1: Water supply in CKD affected areas								
The works included construction of water supply related buildings, installations of electrical and machineries, laying of pipelines								
23	Water Supply extension from Rahathangama, Kumaragama and Kukurampola (from Buttala WSS)	UVA-AF-WS-CKD-18	IEE report approved by ADB.			✓		40%
24	WS Scheme for Rideemaliyadda	UVA-AF-WS-CKD-16	IEE report approved by ADB.			✓		100%

S. No	Name of Package	Package Number	Safeguards Report Status	Status of the Subproject				Overall Physical Progress
				Design stage	Pre-construction Phase	Construction Phase	Operational Phase	
25	Augmentation of Giradurukotte Treatment, Ulhitiya New intake and WS extn. Belaganwewa, Bathalayaya	UVA-AF-WS-CKD-19A UVA-AF-WS-CKD-19B UVA-AF-WS-CKD-19C	IEE report approved by ADB.		✓			N/A
26	Construction of Passara Water Supply Scheme for Passara PS	UVA-AF-PAS-01	Source verification to be done. Design works completed. Bids will be notified. IEE report approval is in progress		✓			N/A

2. COMPLIANCE STATUS WITH NATIONAL/ STATE/ LOCAL STATUTORY ENVIRONMENTAL REQUIREMENTS.

There are several compliance requirements prescribed by certain legislations such as Municipal Councils Ordinance No. 29 of 1947, the Urban Councils Ordinance No. 61 of 1939 and the Pradeshiya Sabha Act No. 15 of 1987 as amended Pradesiya Sabah and Acts related to road reservations and felling of trees etc, where applicable need to be met before commencing activities of these sub projects . The list of subproject where status of statutory clearances is given in Appendix 2.

3. COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS.

No. (List schedule and paragraph number of Loan Agreement)	Covenant	Status of Compliance	Action Required
Schedule 5 - (Paragraph 8)	The Borrower shall ensure, and cause the Project Executing Agency to ensure, that the preparation, design, construction, implementation and operation of the project, including each Eligible	Being complied for all subprojects	Regular monitoring of compliance to environmental

	Subproject, comply with (a) applicable laws and regulations of the Borrower relating to environment, health and safety; (b) the environmental safeguards; and (c) all measures and requirements set forth in the EARF, IEE, the EMP and any corrective or preventative actions set forth in a Safeguards Monitoring Report.		safeguard issues in all subprojects (This is being done)
Schedule 5 (Paragraph 13) (Safeguards - Related Provisions in Bidding Documents and Works Contracts)	<p>The Borrower shall ensure, or cause to be ensured, that all bidding documents and contracts for works contain provisions that require contractors to:</p> <ul style="list-style-type: none"> a) comply with the measures relevant to the contractor set forth in any IEE, DDR EMP, (to the extent they concern impacts on affected people during construction) and any corrective or preventive actions set forth in the Safeguard Monitoring Report; b) make available a budget for all environmental and social measures; c) provide the borrower with a written notice of any unanticipated environmental, risks or impacts that arise during construction, implementation or operation of project that were not considered in IEE, EMP and DDR; d) adequately record the condition of the roads, agricultural land and other infrastructure prior to starting to transport material and construction; and e) reinstate pathways, other local infrastructure and agricultural land to at-least their pre-project condition upon the completion of the construction. 	Bidding documents have relevant clauses.	To be monitored and is being done.
Schedule 5 (Paragraph 14)	The Borrower shall do or shall ensure that the following are done.		

Safeguard Monitoring and Reporting	a) submit semiannual safeguards monitoring report to ADB and disclose relevant information from such reports to affected promptly upon submission;	Being complied	To be monitored and is being done
	b) If any unanticipated environmental and /or social risks arise during construction implementation or operation of the project that were not considered in any IEE, EMP, DDR etc., promptly inform ADB of the occurrence of such risks or impacts, with detailed description of the event and proposed corrective action plan; and	Will be complied	
	c) report any actual or potential breach of compliance with the measures and requirements set forth in any EMP etc., after becoming aware of the breach,	Will be complied	

4. COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN

All the contracts which have commenced to date are simple small value buildings (costs ranging from 0.1 to 0.4 Mn USD) and water supply contracts which include mainly pipe laying and have no serious environmental effects on them. But however Environmental Management Plans are prepared for each subproject and are monitored by the PMU and SPCU safeguard officers on a regular basis as explained in earlier sections. A summary of site inspection is made, and a report is submitted after each site visit. Compliance reports summarized as in **Appendix 3**. Sample environmental site inspection report is given in **Appendix 4**.

5. Overall Compliance with EMP

No.	Sub-Project Name	EMP Part of Contract Documents (Y/N)	EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
1.	All the subprojects	All bidding / Contract documents have EMPs	Being Implemented	Satisfactory	Whenever a shortcoming is found in respect of compliance to mitigation, the contractor has been advised to adopt mitigation measures within a

					possible period.	time
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6. APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

Following is the Methodology adopted:

The PMC safeguard expert has provided inputs and training to the PMU and SPCU staff on requirements of Environmental Monitoring and has developed site inspection report formats / checklists to ensure compliance.

At design stage, all statutory clearances and procedures required for environmental safeguards are identified and obtained. At construction stage, a regular inspection is carried out by the SPCU safeguard officers to ensure that the environmental safeguard measures are adopted and followed. Corrective measures if necessary were advised and remedial actions ensured. Environmental Manager of PMU will oversee the monitoring process in all provinces under the advice and guidance of PMC's safeguard expert. Site inspection reports prepared at provincial level are reviewed.

7. MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS

The sub projects classified under environment category B (as per SPS 2009) are not large-scale projects. The environmental impact is therefore not spread over a wider extent around the project area. However, by taking mitigation measures, as specified in the EMP, harming causes for environmental risk have been minimized. In cases, where environmental risk cannot be eliminated, preventive measures, as specified in the EMP, have been taken to protect the environmental components from the residual impact. During project implementing stage, draining polluted water to nearby water bodies was protected by paying close attention on proposed mitigation measures. Operations of earth moving machines which create noise were limited to the daytime and minimized the disturbance to the neighboring community. Complaints received or anomalies noticed were attended without taking long delays and corrective measures were taken.

8. SUMMARY OF KEY ISSUES AND REMEDIAL ACTIONS

Compliance status of proposed mitigation measures in the EMP were monitored during every site visit and corrective actions were taken where necessary. Monitoring status and action taken are summarized in the monitoring tables. Compliance status of taking preventive measures recommended in the EMPs such as ensuring employees to be equipped with PPEs during construction works and placing safety signs boards and providing barricades in vulnerable locations to establish safety of workers and the community were below the expected level in some contracting sites. Environment Safeguard Managers have taken corrective measures by providing necessary guidance and advices to the Project Managers and Site Supervisors to ensure the environmental safeguard including occupational and public safety. Environment Safeguard Managers discussed outstanding issues at every monthly progress review meeting by highlighting importance of taking migratory measures and preventive measures through the action plan adopted by the contractors.

Appendix 1

Local Government Enhancement Sector Project - Additional Financing

A. Component 1 (Water Supply Systems in CKD affected areas improved)

A.1 Status of ADB's approval of Initial Environmental Examination (IEE) Reports submitted.

Category "B"			
Central Province			
No	Sub Project	Package No	Approval taken / Submitted to ADB and Approval Pending
1	Renovation of existing treatment plant at Dambulla	CP AF WS CKD11	Approved vide email on 17.10.2016
2	Water supply scheme for Matale Borehole (i)Enasalmada and (ii)Pahala-Diggale Water Supply Schemes	CP AF WS CKD 12	Approved vide email on 06.07.2017
3	Water supply extension to Dambulla (rural) and Kandalama.	CP-AF-WS-CKD-10A	Submitted to ADB vide email on 07.11.2017
4	Supply and Laying of PVC/DI/GI Pipes, Fittings and Specials for Water Supply Extension to Inamaluwa and Kithulhitiyawa.	CP AF CKD 10B	Submitted to ADB vide email on 24.11.2017
5	Water Supply extension to Sigiriya and Habarana	CP-AF-WS-CKD 10C	Approved vide email on 05.05.2018
6	Water Supply Extension to Thithhawelgolla and Galewela .	CP-AF-WS-CKD 10D	Approved vide email on 05.05.2018
North Central Project			
7	Water Supply Extension for (i)Mahailuppallama, and (ii) Thirappane area (from Kekirawa Water Supply Scheme.	NCP AF WS CKD 02	Approved vide email on 20.06.2016.
8	Capacity improvement to Nuwarawewa Water treatment plant.	NCP AF WS CKD 04	Approved vide email on 26.10.2016
9	Water Supply extension to Uththupitiya (from Kekkirawa water supply scheme).	NCP AF WS CKD 01	- Approved vide email on 18.04.2016
10	Capacity Improvements to Minneriya Water Treatment Plant.	NCP AF WS CKD 20	Approved vide email on 18.04.2016

11	Water Supply extension to Bendiwewa water supply scheme.	NCP AF WS CKD 21	Approved vide email on 18.04.2016
12	Water Supply extension to Elagamuwa - Main and distribution lines (from Dambulla water supply scheme).	NCP AF WS CKD 03	Approved vide email on 04.01.2017
13	Extension of Water Supply for Sewagama Canal 3 and Pumping Main to Sewagama.	NCP AF WS CKD 07	Approved vide email on 29.09.2017
14	Improvement of existing water supply scheme (Thambala Part 2).	NCP AF WS CKD 08	Approved vide email on 29.09.2017
15	Improvements to Ihalagama treatment Plant (of Kekirawa water supply scheme.	NCP -AF-WS - CKD - 06 A.	Submitted to ADB vide email on 04.09.2017
North Western Province			
16	Water Supply scheme works of Ibbagamuwa .	NWP AF WS CKD 05	Approved vide email on 23.09.2016
17	Supply & Installation of Pumps, treatment plant equipment and accessories for Ibbagamuwa water supply scheme .	NWP AF WS CKD 23	
18	Extension of Water Supply Scheme of Nikawaratiya/ Ambanpola.	NWP AF WS CKD 14 A	Approved vide email on 29.09.2017
19	Extension of water supply scheme of Giriulla, Dambadiniya WSS	NWP-AF-WS-CKD-17	Since the Galgamuwa sources had no sufficient yield, it was decided to go for Dambdeniya extension of Giriulla WSS.
Uva Province			
20	Water Supply extension from Rahathangama, Kuamargama and Kukurampola (from Buttala Water Supply Scheme).	UVA-AF-WS-CKD-18	Approved vide email on 19.05.201
21	Water Supply Schemes for Rideemaliyadda .	UVA-AF-WS-CKD 16	Approved vide email on 04.01.2017
22	Augmentation of Girandurukotte Treatment plant and intake Civil Works, M&E Works and water supply extension to Bathalayaya, Belaganawewa	UVA-AF-WS-CKD-19	Approved vide email on 10/06/2018

Note -All approved reports are published in Project Website -[www.puraneguma.lk/Additional Financing](http://www.puraneguma.lk/Additional_Financing)

Appendix - 2

Local Government Enhancement Sector Project - Additional Financing				
Statutory Clearance Monitoring Sheet - As at 31 December 2018				
Category " B " .				
Component 1: Water supply in CKD affected areas.				
Central Province				
S.No	Name of Subproject	Sub-project Package Number	Clearances Required	Present Status
01	Renovation of existing Treatment Plant at Dambulla	CP-AF-WS-CKD-11	<ul style="list-style-type: none"> N/A 	<ul style="list-style-type: none"> N/A
02	Water Supply Schemes for Enasalmada and Pahaladiggala	CP-AF-WS-CKD-12	<p>Enasalmada</p> <ul style="list-style-type: none"> PRDA Elkaduwa Plantation PS Ukuwela Forest Dept <p>Pahaladiggala</p> <ul style="list-style-type: none"> PRDA PS Galwela Forest Dept 	<p>Enasalmada</p> <ul style="list-style-type: none"> Obtained from PRDA Obtained from Elkaduwa Plantation Obtained from PS Ukuwela Obtained from Forest Dept <p>Pahaladiggala</p> <ul style="list-style-type: none"> Obtained from PRDA Obtained from PS Galwela Obtained from Forest Dept
03	Water supply extension to (i) Dambulla (rural), Kandalama, (ii) Inamaluwa, Kithulhitiyawa, (iii) Sigiriya, Habarana, (iv) Thithawegolla and Galewela	<p>CP-AF-WS-CKD-10A</p> <p>CP-AF-WS-CKD-10B</p> <p>CP-AF-WS-CKD-10C</p> <p>CP-AF-WS-CKD-10D</p>	<ul style="list-style-type: none"> CEA RDA PRDA Dambulla MC Dambulla PS Galewela PS Sri Lanka Mahaweli Authority Agrarian Services Wildlife Dept Archeology Dept 	<ul style="list-style-type: none"> Obtained from CEA Obtained from RDA Obtained from PRDA Obtained from Dambulla MC Obtained from Dambulla PS Obtained from Galewela PS Obtained from Sri Lanka Mahaweli Authority Obtained from Agrarian Services Obtained from Wildlife Dept Obtained from Archeology Dept, subject to AIA

Statutory Clearance Monitoring Sheet- As at 31 December 2018

Component 1: Water supply in CKD affected areas

North Central Province

S.No	Name of Subproject	Sub-project Package Number	Clearances Required	Present Status
04	Water Supply Extensions to Uttupitiya (from Kekirawa water supply scheme)	NCP-AF-WS-CKD-01	<ul style="list-style-type: none"> • PS • RDA • Wildlife Dept 	<ul style="list-style-type: none"> • Obtained from PS • Obtained RDA • Obtained Wildlife Dept
05	Capacity Improvements to Minneriya Water Treatment Plant	NCP-AF-WS-CKD-20	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
06	Water Supply Extensions to Bendiwewa (from Polonnaruwa water supply scheme)	NCP-AF-WS-CKD-21	<ul style="list-style-type: none"> • PS • PRDA • Irrigation Dept 	<ul style="list-style-type: none"> • Obtained from PS • Obtained from PRDA • Obtained from Irrigation Dept
07	Water Supply Extensions to (i) Mahailuppallama & (ii) Thirappane area from Kekirawa water supply scheme	NCP-AF-WS-CKD-02	<ul style="list-style-type: none"> • PS • Mahaweli Authority • RDA • PRDA 	<ul style="list-style-type: none"> • Obtained from PS • Obtained from Mahweli Authority • Obtained from RDA • Obtained from PRDA
08	Capacity improvements of Nuwarawewa WTP	NCP-AF-WS-CKD-04	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
09	Water supply extension Elagamuwa – Main and distribution lines (from Dambulla water Supply Scheme)	NCP-AF-WS-CKD-03	<ul style="list-style-type: none"> • PS • RDA • PRDA • Mahaweli Authority 	<ul style="list-style-type: none"> • Obtained from PS • Obtained from RDA • Obtained from PRDA • Obtained from Mahaweli Authority
10	Extension of pipe lines to Sewagama Canel-3 area and Transmission on main extension up to Sewagama Water Tower	NCP-AF-WS-CKD-07	<ul style="list-style-type: none"> • PS • PRDA • Irrigation Dept 	<ul style="list-style-type: none"> • Obtained from PS, • Obtained from PRDA, • Obtained from Irrigation Dept
11	Water Supply Extension to Tambala	NCP-AF-WS-CKD-08	<ul style="list-style-type: none"> • PS • RDA • PRDA • Irrigation Dept 	<ul style="list-style-type: none"> • Obtained from PS, • Obtained from RDA, • Obtained from PRDA, • Obtained from Irrigation Dept

12	Improvements to Klawewa Treatment Plant at Ihalagama (of Kekirawa WSS)	NCP-AF-WS-CKD-06	<ul style="list-style-type: none"> • RDA 	<ul style="list-style-type: none"> • Obtained from RDA • Obtained from Dept of Archaeology
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Component 1: Water supply in CKD affected areas

North Western Province

S. No	Name of Package	Package Number	Clearances Required	Present Status
13	Water supply extensions to Ibbagamuwa	NWP-AF-WS-CKD-05A	<ul style="list-style-type: none"> • RDA • PRDA • PS Ibbagamuwa 	<ul style="list-style-type: none"> • Obtained from RDA • Obtained from PRDA • Obtained from PS Ibbagamuwa
14	Supply and Installation of pumps, treatment plant equipment and accessories for Ibbagamuwa water supply scheme	NWP-AF-WS-CKD-23	<ul style="list-style-type: none"> • PS Ibbagamuwa 	<ul style="list-style-type: none"> • Obtained from PS Ibbagamuwa
15	Extension of water supply scheme of Nikaweratiya-Ambanpola	NWP -AF-WS -CKD-14A	<ul style="list-style-type: none"> • PRDA • RDA • PS Maho 	<ul style="list-style-type: none"> • Obtained from PRDA • Obtained from RDA • Obtained from PS Maho
16	Water Supply Scheme for Karuwalagawewa	NWP-AF-WS-CKD-15	<ul style="list-style-type: none"> • PRDA • RDA • Irrigation Dept • PS Karuwalagaswewa 	<ul style="list-style-type: none"> • Obtained from PRDA • Pending from RDA • Obtained from Irrigation Dept • Obtained from Karuwalagaswewa PS
17	Extension of water supply scheme of Giriulla, Dambadeniya WSS	NWP-AF-WS-CKD-17	<ul style="list-style-type: none"> • PRDA • RDA • PS Narammala • PS Pannala 	<ul style="list-style-type: none"> • Pending from PRDA • Pending from RDA • Pending from PS Narammala • Pending from PS Pannala

Statutory Clearance Monitoring Sheet - As at 31 December 2018				
Component -1 : Water supply in CKD affected areas				
Uva Province				
S.No	Name of Subproject	Sub-project Package Number	Clearances Required	Present Status
18	Water Supply extension from Rahathangama, Kumaragama and Kukurampola (from Buttala WSS)	UVA-AF-WS-CKD-18	<ul style="list-style-type: none"> • RDA • PRDA 	<ul style="list-style-type: none"> • Obtained from RDA • Obtained from PRDA
19	Water Supply Scheme for Rideemaliyadda	UVA-AF-WS-CKD-16	<ul style="list-style-type: none"> • PRDA 	<ul style="list-style-type: none"> • Obtained from PRDA
20	Augmentation of Giradurukotte Treatment Plant, Ulhitiya New intake and Water Supply extension Belaganwewa, Bathalayaya	UVA-AF-WS-CKD-19	<ul style="list-style-type: none"> • RDA • PRDA • Sri Lanka Mahaweli Authority 	<ul style="list-style-type: none"> - Obtained from RDA - Obtained from PRDA - Obtained from Sri Lanka Mahaweli Authority

Appendix 3.

Local Government Enhancement Sector Project: Additional Financing (LGESP - AF)

Status Report on Compliance to Environmental Safeguards for Sub-projects (as at 31. 12. 2018)

Category “B”

Table (A) - Monitoring Table indicating the Status of Sub Projects under Pre -Construction Phase/Mobilization stage.

This table gives the compliance status of sub projects that are under Pre- construction phase. As the construction activities have not been commenced, this table gives only the status of IEE approval and Bidding process. .

Central Province			
Component 1 -Water supply in CKD affected areas			
No	Sub Project	Package No	Remarks
1	Water Supply Schemes for Enasalmada and Pahaladiggala – CP-AF-WS-CKD-12	CP-AF-WS-CKD-12	This project was dropped due to a source issue.
2	Water Supply Extension to Dambulla (rural), Kandalama	<i>CP-AF-WS-CKD -10A</i>	Cabinet approval pending . IEE reports already prepared for Dambulla (rural), Kandalama,
3	Water Supply Extension to Inamaluwa, Kithulhitiyawa(Rural Areas),	<i>CP-AF-WS-CKD -10B</i>	IEE already prepared for Inamaluwa, Kithulhitiyawa. Agreement signed on 19.12.2018. Kick off meeting held.

4	Water Supply extension to Sigiriya, Habarana,	CP-AF-WS-CKD -10C	IEE reports being prepared for Sigiriya, Habarana, Thithawegolla and Galewela. Agreement signed on 19.12.2018. Kick off meeting held.
5	Water Supply extension to Thithawegolla and Galewela.	CP-AF-WS-CKD -10D	IEE reports being prepared for Thithawegolla and Galewela. Agreement signed on 02.01.2019. Kick off meeting held.
North Central Province			
Component 1 -Water supply in CKD affected areas			
	Sub Project	Package No	Remarks
6	Improvement of existing water supply scheme – (Tambala- part 2)	NCP-AF-WS-CKD-08	IEE report has been approved by ADB. Contract awarded. Mobilization in progress.
7	Water Supply Schemes in (i) Uruwewa and (ii) Abeyapura of Padaviya and (iii) Thibiriwewa of Kebithigollawa	NCP-AF-WS-CKD-09	IEE report preparation is in progress. Bid documents in progress.
8	Improvement to the Treatment plant Minneriya and Distribution Network Hingurakgoda	NCP-AF-WS-CKD-13	IEE report preparation is in progress. Design completed. <i>This project was dropped due to lack of funds</i>

9	Rehabilitation to Tissawewa Treatment Plant	NCP-AF-WS-CKD-22	IEE report preparation is in progress. Design completed . <i>This project was dropped due to lack of funds.</i>
North Western Province			
Component 1: Water supply in CKD affected areas			
10	Water Supply Scheme for Karuwalagawewa Pradeshiya Sabah.	NWP-AF-WS-CKD-15	IEE report approval is in progress. Bid evaluation in progress.
11	Extension of water supply scheme of Giriulla, Dambadiniya Water Supply Scheme.	NWP-AF-WS-CKD-17	IEE report preparation is in progress. <i>Dropped due to lack of funds.</i>
Uva Province			
Component 1: Water supply in CKD affected areas			
12	Augmentation of Giradurukotte Treatment Plant, Ulhitiya New intake and Water Supply extension Belaganwewa, Bathalayaya	UVA-AF-WS-CKD-19 (19A, 19B, 19C)	Will be implemented in three sub projects. Bid Evaluation in progress. IEE report has been approved by the ADB.

Table (B) -Status Report on Compliance to Environmental Safeguards for Sub-projects (as at 31.12. 2018)

Category “B”

This table will reveals the status of compliance monitoring of sub projects where construction has been commenced.

Central Province							
Component 1: Water supply in CKD affected areas							
1) Renovation of existing Treatment Plant at Dambulla / Package No - CP-AF-WS-CKD-11							
Note -This project was handed over to NWS&DB in October 2018.							
Impacts / Environmental Issues	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status.	Further Action	Location of Monitoring	Remarks.
Pre-Construction Phase - Pre-construction period was over. No activities undertaken.							
Construction Phase.							
1.A)Environmental pollution endangered by generation of dusts.	i)To Sprinkler water Using bowsers. ii) When transporting all materials such as earth, sand and cement, cover them with tarpaulin to avoid spillage of materials and production of dust due to wind.	i) No of water bowsers operated per day. (ii) Adequacy of watering equipment available. iii) Covered Trucks transporting materials.	Physical Observation	Fully completed	-	Project area/ Surrounding.	-

	Appropriate measures shall be in place to minimize the emissions of dust handling, loading/unloading of materials.	i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area. (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area (iii) Recordings of complains from sensitive receptors.	Physical Observation	Fully completed	-	Project area/ Surrounding.	-
1.B) Environment pollution caused by high noise generated from heavy machineries.	Construction activities shall be carried out only during day time from 7am to 5.pm every day and limited night work be done for the concrete slabs.	i) Establish noise barriers as recommended by the Engineer. ii) Noise reports obtained in case complaints or observations during supervision. <i>(CEA specific regulations for noise is 75 dB in day time.)</i>	Physical Observation / Noise report.	Fully completed	-	Project area/ Surrounding.	Temporary noise barriers installed.

1.C)Environment pollution caused by material wash away from excavated stockpiles during rains.	Material stockpiles, shall be covered and provide conservation bunds and sufficient drainage.	Conservation bunds/Sufficient drainage.	Physical Observation	Fully completed	-	Project area.	-
1.D) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred.	Physical Observation	Fully completed	-	Project area	Having explained risk, all workers used PPEs.
1.E)Environmental pollution endangered by generated by waste.	The solid wastes generated shall be removed to appropriate disposal Yards.	Dispose solid waste into a LA approved site.	Physical Observation	Fully completed	-	Project area/ Disposal site.	-

1) Renovation of existing Treatment Plant at Dambulla / Package No - CP-AF-WS-CKD-11



Photo 1 – Renovated Treatment Plant and building.

North Central Province							
Component 1: Water supply in CKD affected areas							
2) Water Supply Extension to Uttupitiya (from Kekirawa Water Supply Scheme- Package No –NCP-AF-CKD-01							
Note - This sub project had been handed over to NWS&DB in July 2018.							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Construction Phase							
2.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1: 4 ratio. ii) Permits to be obtained for any tree cutting.	i)Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books. v) No of trees planted.	Physical Observation/Permit.	Not required	-	Project area	No trees removed. This sub project had been handed over to NWS&DB in <u>July 2018</u>

2.B) Public Health endangered by earth slips by burrowing earth .	<p>i) To apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas.</p> <p>ii) Source the materials from approved & qualified suppliers.</p>	<p>(i) Checking visual status of removal and burrowing sites.</p> <p>(ii)GSMB approval for burrow pits.</p> <p>(ii) Checking reinstatement status after work.</p>	Physical Observation/Permit/documents	Not required.	-	Project area / Burrow pits	No backfilling activities involved during this period.
2.C)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged.	<p>i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate. lots for storage and parking.</p>	Physical Observation.	Not required.	-	Project area.	Separate yard was available.
2.D) Occupational and community Health endangered due to dust generated from various construction related activities	<p>i) Regularly spray water on excavated soil surface to minimize generation of dust.</p> <p>ii) Dust Masks shall be worn by workers.</p>	<p>(i) Adequacy of watering equipment available.</p> <p>(ii) Deployment of watering equipment as and when required.</p> <p>(iii) Dust deposition over the neighboring buildings.</p>	Physical Observation.	Not required.	-	Project area	-

		iv) Workers wearing dust masks					
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Not required.	-.	Project area.	-
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area (iii) Recordings of complains from sensitive receptors.	Physical Observation	Not required	-	Project area	-
2.E) Public nuisance caused by Increased noise level during construction.	i) Construction activities shall be carried out only during day time. ii) To limit night work which creates noise.	i) Checking status of noise generated works. (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained in case complaints or observations during	Physical Observation/ Documents	Not required	-	Project area and surrounding	-

		supervision. (*CEA specific regulations for noise is 75 dB in day time)					
2.F)Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	i) Disturbed natural habitats. (ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.	Physical Observation.	Not required	-	Project area	-
2.G)Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains.	Physical Observation	Not required	-	Project area and surrounding	-.
2.H)Solid & Liquid Waste generation in site and camping around.		i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.	Physical Observation	Fully completed	-	Project area and Disposal site.	-

2.I)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of complaints from sensitive receptors.	Physical Observation	Not required.	-	Project area	-
2.J)Community health and safety.	(i) Provide walkways and metal sheets where required to maintain access for people and vehicles. ii) The contractor will ensure that there is provision of alternate access to business establishments during the construction, so that there is no closure of these shops or any loss of clientage. lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions iv) Safety signs will be established when and where necessary.	i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards. (iii) Recordings of complaints from sensitive receptors. -	Physical Observation/ Documents	Not Required.	-	Project site	-

North Central Province							
Component 1: Water supply in CKD affected areas							
3) Capacity Improvements to Minneriya Water Treatment Plant-NCP-AF-WS-CKD-20							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Construction Phase							
3.A) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1 :4 ratio. ii) Permits to be obtained when required.	i) Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) No of trees planted	Physical Observation/Permit.	Fully Completed.	-	Project area	No trees removed
3.B) Public Health endangered by earth slips by burrowing earth .	i) To apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from	(i) Checking visual status of removal and burrowing sites. (ii) GSMB approval for burrow pits. (ii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Fully Completed	-	Project area / Burrow pits	Earth purchased from GSMB approved burrow site .

	approved & qualified suppliers.						
3.C)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate lots for storage and parking.	Physical Observation.	Fully Completed	.-	Project area	Separate place is maintained for material storage and parking.
3.D) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray of water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Fully Completed	.-	Project area	
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Fully Completed	.-	Project area	No complaint of dust menace.

	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area (iii) Recordings of complains from sensitive receptors.	Physical Observation	Fully Completed	-	Project area	
3.E) Public nuisance caused by Increased noise level during construction.	i) Construction activities shall be carried out only during day time. ii) To limit night work which creates noise.	i) Checking status of noise generated works. (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)	Physical Observation/ Documents	Not required	-	Project area and surrounding	Site located in a remote area.
3.F) Impacts on existing habitats in	Natural habitats will not be disturbed.	i) Disturbed natural habitats.	Physical Observation.	Not required	-	Project area	Construction undertaken in the NWS & DB premises which is

and outside the site.		(ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.					already a developed site. No natural habitat found.
3.G) Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains.	Physical Observation	Not required	-	Project area	Construction occurred in the NWS & DB premises. No natural water bodies exist.
3.H) Solid & Liquid Waste generation in site and camping around.	i) Adequate garbage bins shall be provided to collect waste s in the camping site . ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.	i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.	Physical Observation	Average	Project Manager was advised to place garbage bins to collect wastes .	Project area and Disposal site.	Disposal site yet to be identified. This had been taken up at several times at the progress review meeting and advise contractor.
3.I) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of	Physical Observation	Above Average	Project Manager was advised to provide PPEs.	Project area	This had been taken up at several times at the progress review meeting and advise contractor

		complaints from sensitive receptors.					
3.J)Community health and safety.	(i) Provide walkways and metal sheets where required to maintain access for people and vehicles. ii) The contractor will ensure that there is provision of alternate access to business establishments during the construction, so that there is no closure of these shops or any loss of clientage. Iii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions iv) Safety signs will be established when and where necessary.	i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards. (iii) Recordings of complaints from sensitive receptors.	Physical Observation/Documents	Fully completed.	-	Project site and vicinity.	-

North Central Province							
Component 1: Water supply in CKD affected areas							
4) Water Supply Extensions to Bendiwewa (from Polonnaruwa water supply scheme)-NCP-AF-WS-CKD-21							
Note – This project was handed over to NWS&DB on 19 th Sept 2018							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location Monitoring	Remarks
Construction Phase							
4.A) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1 : 4 ratio. ii)Permits to be obtained where required.	i)Trees demarcated for felling ii)Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) No of trees planted	Physical Observation/Permit.	Not required.	-	Project area	No trees removed. Only small bushes removed.
4.B) Public Health endangered by earth slips by burrowing earth .	i) To apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from	(i) Checking visual status of removal and burrowing sites. (ii)GSMB approval for burrow pits. iii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Fully completed.	-	Project area / Burrow pits.	Earth purchased from GSMB approved burrow pits.

	approved & qualified suppliers.						
4.C)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged.	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate lots for storage and parking	Physical observation	Fully completed	-	Project area	Separate space available in the site.
4.D) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray of water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Fully completed	-	Project area	No complaints from public.
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Fully completed	-	Project area	-

	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	<p>(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area</p> <p>(ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area</p> <p>(iii) Recordings of complains from sensitive receptors.</p>	Physical Observation	Not required.	-	Project area	No unloading /loading of material such as sand and metals done during this reporting period .
4.E) Public nuisance caused by Increased noise level during construction.	<p>i) Construction activities shall be carried out only during day time.</p> <p>ii) To limit night work which creates noise.</p>	<p>i) Checking status of noise generated works.</p> <p>(ii) Recordings of complains from sensitive receptors .</p> <p>(ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)</p>	Physical Observation/ Documents	Not required	-	Project area and surrounding.	No public complaints of high noise.
4.F) Impacts on existing habitats in	Natural habitats will not be disturbed.	i) Disturbed natural habitats.	Physical Observation.	Not required	-	Project area	No natural habitats found along the pipe lines.

and outside the site.		(ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.					
4.G) Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains. iii) Undisturbed water way.	Physical Observation	Not required	-	Project area and surrounding	No natural drainage or water bodies disturbed during pipe laying. Photo 2- DI pipe laid on concrete pillars across a water way as a mitigation .
4.H) Solid & Liquid Waste generation in site and camping around.	i) Adequate garbage bins shall be provided to collect waste s in the camping site . ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.	i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.	Physical Observation	Fully completed	-	Project area / disposal site	-
4.I) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of	Physical Observation	Fully completed	-	Project area	-

		complaints from sensitive receptors.					
4.J)Community health and safety.	<p>(i) Provide walkways and metal sheets where required to maintain access for people and vehicles.</p> <p>ii) The contractor will ensure that there is provision of alternate access to business establishments during the construction, so that there is no closure of these shops or any loss of clientage.</p> <p>lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions</p> <p>iv) Safety signs will be established when and where necessary.</p>	<p>i) Availability of safety measures at the construction site.</p> <p>(ii) Contact numbers and information mentioned on the notice boards.</p> <p>(iii) Recordings of complaints from sensitive receptors.</p>	Physical Observation.	Fully completed	-	Project area	-

4) Water Supply Extensions to Bendiwewa (from Polonnaruwa water supply scheme)-NCP-AF-WS-CKD-21



Photo 2 – DI pipe laid over a Water Way not disturbed.

North Central Province -							
Component 1: Water supply in CKD affected areas							
5) Water Supply Extensions to (i) Mahailuppallama & (ii) Thirappane area from Kekirawa water supply scheme-NCP-AF-WS-CKD-02.							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Construction Phase							
5.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1:4 ratio. ii) Permits to be obtained where required.	i)Trees demarcated for felling ii)Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) No of trees planted	Physical Observation/ Permit.	Average	Project Manager advised to find a suitable land to plant 32 trees(Kumbuk and Mee).	Project area	08 Teak trees removed during pre-construction phase. Site not yet selected.
5.B) Public Health endangered by earth slips by burrowing earth .	i) To apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from	(i) Checking visual status of removal and burrowing sites. (ii)GSMB approval for burrow pits. (ii) Checking reinstatement status after work.	Physical Observation/ Permit/docum ents	Fully completed	-	Project area / Burrow pits	Earth purchased from GSMB approved burrow site located at Thirappane and Nallamudawa.

	approved & qualified suppliers.						
5.C)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate lots for storage and parking	Physical Observation/ Permit/docum ents	Fully completed.	-	Project site	Separate area is maintained.
5.D) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) workers wearing dust masks	Physical Observation	Above Average	Project Manager advised to spray water twice a day where dust emission is high.	Project area	-
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Fully completed.	-	Project area	-

	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	<p>(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area</p> <p>(ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area</p> <p>(iii) Recordings of complains from sensitive receptors.</p>	Physical Observation	Not required	-	Project area	<p>Construction activities limited to only pipe laying.</p> <p>Loading and unloading of dust emitting materials such as sand and cement were not used in large scale.</p>
5.E) Public nuisance caused by Increased noise level during construction.	<p>i) Construction activities shall be carried out only during day time.</p> <p>ii) To limit night work which creates noise.</p>	<p>i) Checking status of noise generated works.</p> <p>(ii) Recordings of complains from sensitive receptors .</p> <p>(ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)</p>	Physical Observation/ Documents	Not required	-	Project area and surrounding	Machineries used were low noise generating ones.

5.F)Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	i) Disturbed natural habitats. (ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.	Physical Observation.	Not required	-	Project area	No natural habitat was disturbed during construction.
5.G)Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains.	Physical Observation	Fully completed	-	Project area and surrounding	Water ways not disturbed. Pipes laid on columns when crossing a water way.
5.H)Solid & Liquid Waste generation in site and camping around.	i) Adequate garbage bins shall be provided to collect waste s in the camping site . ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.	i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.	Physical Observation	Average	Project Manager (PM)advised to dispose waste properly to a LA approved site.	Project area and Disposal site.	-
5.I)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of	Physical Observation	Above average	PM was advised to provide PPEs to all workers.	Project area	There is a improvement in wearing PPEs by workers .

		complaints from sensitive receptors.					Photo No 3- Rock excavation by workers with PPEs.
5.J)Community health and safety.	(i) Provide walkways and metal sheets where required to maintain access for people and vehicles. ii) The contractor will ensure that there is provision of alternate access to business establishments during the construction, so that there is no closure of these shops or any loss of clientage. Iii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions iv) Safety signs will be established when and where necessary.	i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards. (iii) Recordings of complaints from sensitive receptors.	Physical Observation	Above Average	PM was advised to provide safety signs and barricades at vulnerable locations such as near roads and ensure safety of road users.	Project area	This issue too taken up at the Provincial progress meeting.

5) Water Supply Extensions to (i) Mahailuppallama & (ii) Thirappane area from Kekirawa water supply scheme-**NCP-AF-WS-CKD-02.**



Photo No 3-Rock Excavation- Workers with PPEs

North Central Province -							
Component 1: Water supply in CKD affected areas							
6) Water supply extension Elagamuwa – Main and distribution lines (from Dambulla water Supply Scheme)-NCP-AF-WS-CKD-03							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Pre -Construction Phase							
6.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i)If any tree cutting compensation tree planting shall be done at least 1: 4 ratio.. ii) Necessary permits shall be obtained when required.	i)Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv)Checking NWSDB recording books for site clearing /tree cutting v) No of trees planted.	Physical Observation./Permit.	Average	Project Manager to demarcate trees.	Project area	08 trees further demarcated in 03 zones, Anakatawa, Kandalama East and West.

Construction Phase							
6.B)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1: 4 ratio. ii)Permits to be obtained for any tree cutting	i)Trees demarcated for felling ii)Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) No of trees planted	Physical Observation/Permit.	Average	Project Manager instructed to prepare a replanting programme.	Project area	08 trees removed with permits.
6.C) Public Health endangered by earth slips by burrowing earth .	i) to apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from approved & qualified suppliers.	(i) Checking visual status of removal and burrowing sites. (ii)GSMB approval for burrow pits. (ii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Fully completed.ge	-	Project area / Burrow pits.	Earth purchased from GSMB approved burrow pits located at Galewela- Mahakotte and , Maradankadawala.
6.D)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged,	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate	Physical Observation.	Fully completed.ge	--	Project area.	Separate place allocated.

		lots for storage and parking.					
6.E) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Above average	Project Manager was instructed to spray water at least twice a day where required.	Project area	This issue taken up at progress review meeting and instructed to contractor to adopt mitigation.
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation.	Fully completed	-	Project area	-
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area	Physical Observation	Fully completed	-	Project area	-

		(iii) Recordings of complains from sensitive receptors.					
6.F) Public nuisance caused by Increased noise level during construction.	i) Construction activities shall be carried out only during day time. ii) To limit night work which creates noise.	i) Checking status of noise generated works. (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)	Physical Observation/ Documents Noise report	Not required	-	Project area and surrounding	Machineries used mostly in rural areas and no complaint on high noise.
6.G) Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	i) Disturbed natural habitats. (ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.	Physical Observation.	Not required	-	Project area	No natural habitat disturbed during this reporting period.
6.H) Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains.	Physical Observation	Not required	-	Project area and surrounding	No natural water body or drainage pattern disturbed by excavation.

6.I)Solid & Liquid Waste generation in site and camping around.	<p>i) Adequate garbage bins shall be provided to collect waste s in the camping site .</p> <p>ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.</p>	<p>i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.</p>	Physical Observation.	Average	Project Manager was advised to dispose waste to LA approved disposal site.	Project area and Disposal site.	This issue taken up at monthly progress meetings.
6.J)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	<p>(i) Availability of PPEs.</p> <p>(ii) Workers wearing with PPEs.</p> <p>(iii) Records of accidents occurred.</p> <p>(iv) Recordings of complaints from sensitive receptors.</p>	Physical Observation	Above Average.	Project Manager advised to continue good practice of wearing PPEs.	Project area	Ref Photo No 4- Workers with PPEs.
6.K)Community health and safety.	<p>(i) Provide walkways and metal sheets where required to maintain access for people and vehicles.</p> <p>ii) The contractor will ensure that there is provision of alternate access to business establishments</p>	<p>i) Availability of safety measures at the construction site.</p> <p>(ii) Contact numbers and information mentioned on the notice boards.</p> <p>(iii) Recordings of complaints from sensitive receptors.</p>	Physical Observations	Average.	Project Manager advised to safety warnings at vulnerable locations.	Project site	Photo No 5- Lack of safety warnings boards at road side.

	<p>during the construction, so that there is no closure of these shops or any loss of clientage.</p> <p>lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions</p> <p>iv) Safety signs will be established when and where necessary.</p>						
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**6) Water supply extension Elagamuwa – Main and distribution lines (from Dambulla water Supply Scheme)-
NCP-AF-WS-CKD-03**



Photo No 4- Rock Excavation- Water Supply Extension Elagamuwa – Main and distribution lines (from Dhambulla water Supply Scheme)-**NCP-AF-WS-CKD-03**



Photo No 5- Lack of safety warnings (no sign boards) at road side. Rock Excavation- Water Supply Extension Elagamuwa.-**NCP-AF-WS-CKD-03.**

North Central Province							
Component 1: Water supply in CKD affected areas							
7) Sewagama Canal 3 - NCP-AF-WS-CKD-07							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Pre -Construction Phase							
7.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i)If any tree cutting compensation tree planting shall be done at least 1 : 4 ratio. ii) Necessary permits shall be obtained where required..	i)Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv)Checking NWSDB recording books for site clearing /tree cutting v) No of trees planted.	Physical Observation./Permit.	Fully completed.	-	Project area	09 trees demarcated. (Margosa,Teak and Kapok)

Construction Phase							
7.B)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1:4 ratio. ii)Permits to be obtained for any tree cutting	i) Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) no of trees planted	Physical Observation/Permit.	Fully completed	-	Project area	Although eight trees marked ,only one Margosa and one Kapok tree removed. Photo 6 & 7 – trees saved.
7.C) Public Health endangered by earth slips by burrowing earth .	i) to apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from approved & qualified suppliers.	(i) Checking visual status of removal and burrowing sites. (ii)GSMB approval for burrow pits. (ii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Fully completed	-	Project area / Burrow pits	Erath purchased from GSMB approved burrow site located at Laksha Uyana, Athumalpitiya,
7.D)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution. (iii) Adequacy of storage and parking place (iv) Allocation of separate	Physical Observation.	Fully completed	-	Project area .	A separated space allocated in the site.

		lots for storage and parking.					
7.E) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. (iv) workers wearing dust masks	Physical Observation	Average	Project Manager instructed to increase no of water bowzers to spray where dust emission is high.	Project area .	-
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Fully completed	-	Project area and on roads.	No public complaints on truck loads.
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area	Physical Observation	Fully completed	-	Project area and on roads.	-

		iii) Recordings of complains from sensitive receptors.					
7.F) Public nuisance caused by Increased noise level during construction.	<p>i) Construction activities shall be carried out only during day time.</p> <p>ii) To limit night work which creates noise.</p>	<p>i) Checking status of noise generated works.</p> <p>ii) Recordings of complains from sensitive receptors .</p> <p>ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)</p>	Physical Observation/ Documents	Not required	-	Project area and surrounding.	Excavation done in mostly rural areas and no compliant of public nuisance.
7.G)Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	<p>i) Undisturbed natural habitats.</p> <p>ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.</p>	Physical Observation.	Not required	-	Project area	Trench excavation not done through any natural habitat.
7.H)Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	<p>i) Signs of alternation or devastation or added changes in natural water ways.</p> <p>ii) Quality changes in natural drains.</p>	Physical Observation	Not required	-	Project area and surrounding.	Natural water bodies or drainage pattern not disturbed .

7.I)Solid & Liquid Waste generation in site and camping around.	<p>i) Adequate garbage bins shall be provided to collect waste s in the camping site .</p> <p>ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.</p>	<p>i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites vi) Disposal of waste into a authorized waste disposal site.</p>	Physical Observation	Below Average	Project Manager was instructed to find a suitable site for disposal of waste.	Project area and Disposal site.	<p>No disposal site identified yet.</p> <p>This issue was taken up at progress review meetings and instructed the contractor to find out a site for disposal of waste with LA approval.</p>
7.J)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	<p>(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of complaints from sensitive receptors.</p>	Physical Observation	Average	Project Manager was advised to provide PPEs to all workers and ensure their safety.	Project area	<p>Photo no 7- Inadequate PPEs. Workers without safety boots.</p> <p>Safety issues were taken up at every progress review meetings and instructed the contractor to insist workers to wear safety equipment.</p>
7.K)Community health and safety.	<p>(i) Provide walkways and metal sheets where required to maintain access for people and vehicles. ii) The contractor will ensure that there is provision of alternate access to business establishments</p>	<p>i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards. (iii) Recordings of complaints from sensitive receptors.</p>	Physical Observation/Docuements	Average	Project Manager was advised to make available safety measures at vulnerable locations.	Project area.	

	<p>during the construction, so that there is no closure of these shops or any loss of clientage.</p> <p>lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions</p> <p>iv) Safety signs will be established when and where necessary.</p>						
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7) Sewagama Canal 3 - NCP-AF-WS-CKD-07



Photo 6 - Trench excavated by using man power to save trees. Only safety jackets.



Photo No 7 -Workers with no Boots , trees saved by excavating trench manually..

North Central Province -							
Component 1: Water supply in CKD affected areas							
8) Improvement to Kalawewa Treatment Plant at Ihalagama - (from Kekirarwa Water Supply Scheme) -NCP-AF-WS-CKD-06							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Pre -Construction Phase							
8.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i)If any tree cutting compensation tree planting shall be done at least 1 :4 ratio. ii) Necessary permits shall be obtained when required.	i)Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv)Checking NWSDB recording books for site clearing /tree cutting v) No of trees planted.	Physical Observation/Permit.	Fully completed	-	Project area	03 Mango trees demarcated for removal in the premises of the treatment plant

Construction Phase							
8.B) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1:4 ratio. ii) Permits to be obtained for any tree cutting	i) Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books v) No of trees planted	Physical Observation/Permit.	Average	Replanting Programm to be prepared and submit.	Project area	03 mango trees removed.
8.C) Public Health endangered by earth slips by burrowing earth .	i) to apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from approved & qualified suppliers.	(i) Checking visual status of removal and burrowing sites. (ii) GSMB approval for burrow pits. iii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Not Required	-	Project area .	Earth not imported. Backfilling of the gaps exist between sump wall and ground was done with excavated soil in the site itself. No excavation of trench started during this period.
8.D) Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	i) Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate	Physical Observation	Fully completed	-	Project area	Photo No 8 - Material storage in a separate place.

		lots for storage and parking					
8.E) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Average	Project Manager was advised to spray water at least twice a day to minimize dust.	Project area	Sump and Sand Filter construction is done very close to existing NWS&DB treatment plant and office. Dust emission need to be minimized.
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complaints from public.	Physical Observation./ Documents	Fully complete	-	Project area	No public complaints.
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area	Physical Observation	Not Required		Project area	No construction material used. Beginning of the project.

		(iii) Recordings of complains from sensitive receptors.					
8.F) Public nuisance caused by Increased noise level during construction.	i) Construction activities shall be carried out only during day time. ii) To limit night work which creates noise.	i) Checking status of noise generated works. (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)	Physical Observation/ Documents	Not Required	-	Project area and surrounding.	Excavation activities limited to the NWS&DB premises. No disturbance to residence.
8.G) Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	i) Undisturbed natural habitats. (ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.	Physical Observation.	Not Required	-	Project area .	Construction activities confined to NWS&DB premises where no natural habitat exist.
8.H) Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	i) Signs of alternation or devastation or added changes in natural water ways. (ii) Quality changes in natural drains.	Physical Observation	Not Required	-	Project area .	Construction activities confined to NWS&DB premises where no natural water bodies found. Existing drainage

							pattern not disturbed.
8.I)Solid & Liquid Waste generation in site and camping around.	<p>i) Adequate garbage bins shall be provided to collect wastes in the camping site .</p> <p>ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.</p>	<p>i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites (vi) Disposal of waste into a authorized waste disposal site.</p>	Physical Observation	Fully completed.	-	Project area and Disposal site.	<p>Excavated earth and rocks were placed in the NWS&DB premises itself on request of NWS&DB.</p> <p>Ref Photo No 9.</p>
8.J)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	<p>(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of complaints from sensitive receptors.</p>	Physical Observation	Average	Project Manager was instructed to provide PPEs to ensure their safety.	Project area	<p>Photo No 9 –Lack of PPEs.</p> <p>This issue was taken up the monthly progress meeting.</p>
8.K)Community health and safety.	(i) Provide walkways and metal sheets where required to maintain access for people and vehicles.	<p>i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards.</p>	Physical Observation/Documents	Average	Project Manager was instructed to place safety measures where required.	Project area	-

	<p>ii) The contractor will ensure that there is provision of alternate access to business establishments during the construction, so that there is no closure of these shops or any loss of clientage.</p> <p>lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions</p> <p>iv) Safety signs will be established when and where necessary.</p>	(iii) Recordings of complaints from sensitive receptors.					
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**8) Improvement to Kalawewa Treatment Plant at Ihalagama - (from Kekirarwa Water Supply Scheme).
-NCP-AF-WS-CKD-06.**



Photo 8- The place where material are stored.



Photo 9- NWS&DB land filled with excavated soil and worker handling rocks without safety Boots.

North Central Province -							
Component 1: Water supply in CKD affected areas							
9) Capacity Improvement to Nuwerawewa Water Treatment Plant. (from Dhambulla water Supply Scheme)-NCP-AF-WS-CKD-04							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Pre -Construction Phase							
9.A)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i) If any tree cutting compensation tree planting shall be done at least 1:4 ratio. ii) Necessary permits shall be obtained when required.	i) Trees demarcated for felling ii) Permits obtained. iii) No of trees felled. iv) Checking NWSDB recording books for site clearing /tree cutting v) No of trees planted.	Physical Observation./Permit.	Fully Completed.	-	Project area.	Three Mango trees and two Margosa trees demarcated for removal.

Construction Phase							
9.B)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs.	i) Compensating tree planting for trees felled will be done at least 1:4 ratio. ii)Permits to be obtained where necessary.	i)Trees demarcated for felling. ii) Permits obtained. iii) No of trees felled. iv) Checking Contractors recording books. v) No of trees planted.	Physical Observation/Permit.	Average	Project Manager was requested to provide replanting programme,	Project area	Replanting site not yet selected. Discussed at the monthly progress review meeting and advised to contractor to find a suitable site.
9.C) Public Health endangered by earth slips by burrowing earth .	i) to apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from approved & qualified suppliers.	(i) Checking visual status of removal and burrowing sites. (ii)GSMB approval for burrow pits. (ii) Checking reinstatement status after work.	Physical Observation/Permit/documents	Not required	-	Project area / Burrow pits	No soil imported. No large amount of earth used. Excavated earth itself used for filling purpose.
9.D)Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	i)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate	Physical Observation.	Fully Completed	-	Project area	-

		lots for storage and parking					
9.E) Occupational and community Health endangered due to dust generated from various construction related activities	i) Regularly spray water on excavated soil surface to minimize generation of dust. ii) Dust Masks shall be worn by workers.	(i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) workers wearing dust masks	Physical Observation	Average	Project Manager was instructed to spray water whenever required to keep the surrounding dust free,	Project area	-
	Trucks shall be covered when transporting all materials such as earth, sand and cement with tarpaulin.	(i) Covered trucks. (ii) Recordings of complains from public.	Physical Observation/ Documents	Fully completed	-	Project area	No public complaints on uncovered transport of material.
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area	Physical Observation	Fully completed	-	Project area	No complaints from NWS&DB office regarding dust menace.

		(iii) Recordings of complains from sensitive receptors.					
9.F) Public nuisance caused by Increased noise level during construction.	<p>i) Construction activities shall be carried out only during day time.</p> <p>ii) To limit night work which creates noise.</p>	<p>(i) Checking status of noise generated works.</p> <p>(ii) Recordings of complains from sensitive receptors .</p> <p>(ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>)</p>	Physical Observation/ Documents	Not Required.	-	Project area and surrounding	No complaints from sensitive receptors.
9.G) Impacts on existing habitats in and outside the site.	Natural habitats will not be disturbed.	<p>i) Undisturbed natural habitats.</p> <p>(ii) Signs of environmental degradation such as soil erosion, pollution in nearby area.</p>	Physical Observation.	Not Required	-	Project area	No sensitive natural habitat disturbed during this reporting period.
9.H) Damages to natural water bodies, drainage pattern and surrounding rainwater drains	Natural drainage shall not be disturbed.	<p>i) Signs of alternation or devastation or added changes in natural water ways.</p> <p>(ii) Quality changes in natural drains.</p>	Physical Observation.	Not Required	-	Project area	No natural water body or drainage disturbed during this reporting period.

9.I)Solid & Liquid Waste generation in site and camping around.	<p>i) Adequate garbage bins shall be provided to collect waste s in the camping site .</p> <p>ii) Solid & liquid wastes generated in site and camps shall be removed to LA approved disposal yards.</p>	<p>i) Number of waste collecting baskets available in the site (ii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites (vi) Disposal of waste into a authorized waste disposal site.</p>	Physical Observation	Below average	Project Manager was instructed to identify a site to dispose waste with LA approval.	Project area and Disposal site.	<p>Photo 10- Construction waste dumped in the site.</p> <p>This issue was also taken up at progress review meetings and instructed contractor accordingly.</p>
9.J)Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	<p>(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred. (iv) Recordings of complaints from sensitive receptors.</p>	Physical Observation	Average	Project Manager was instructed to identify a site to dispose waste with LA approval	Project area	Photo 11- Workers not wearing safety Jackets and Gloves.
9.K)Community health and safety.	<p>(i) Provide walkways and metal sheets where required to maintain access for people and vehicles. ii) The contractor will ensure that there is provision of alternate access to business</p>	<p>i) Availability of safety measures at the construction site. (ii) Contact numbers and information mentioned on the notice boards. (iii) Recordings of complaints from sensitive receptors.</p>	Physical Observations	Fully completed..	Project Manager was instructed to identify a site to dispose waste with LA approval	Project site	-

	<p>establishments during the construction, so that there is no closure of these shops or any loss of clientage.</p> <p>lii) The contractor will ensure that any damage to properties and utilities will be restored or compensated to pre-work conditions</p> <p>iv) Safety signs will be established when and where necessary.</p>						
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9) Capacity Improvement to Nuwerawewa Water Treatment Plant. (from Dhambulla water Supply Scheme)-NCP-AF-WS-KD-04



Photo No 10- Construction Waste dumped in the site.



Photo 11-- Workers not wearing safety Jackets and Gloves.

North Western Province							
Component 1: Water supply in CKD affected areas							
10-i) Water supply extension to Ibbagomuwa –NWP-AF-WS-CKD-05A 10.ii) Supply and installation of pumps, treatment plant equipment and accessories for Ibbagomuwa water supply scheme-NWP-AF-WS-CKD-23 One IEE has been prepared for above two components considered as two sub projects.							
Impacts / Environmental Issue	Mitigation Measures	Parameters to be Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks if any.
Pre -Construction Phase							
10.A) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i) Demarcate trees to be felled.	No of trees demarcated.	Physical observation	Fully completed.	-	Project area.	02 coconut trees demarcated.
Construction Phase							
10.B) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs	i) In any tree cutting occurred, undertake replanting at 1: 4 ratio to compensate, conduct replanting for	i) No of trees removed with permits. ii) Re-planting site and no of trees replanted.	Physical observation	Average	Site Supervisor advised to prepare replanting programme.	Project area	02 coconut trees demarcated and felled. Pipe line trace shifted to avoid further tree cuttings.

	compensate at least 1:4 ratio. ii) Permits to be obtained.						
10.C)Health impacts, soil degradation & earth slips by removal of earth & burrowing earth from burrow pits.	i)Apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. ii) Source the materials from approved & qualified suppliers.	(1) Checking visual status of removal and burrowing sites. (ii) Checking of approval for burrow pits. (ii) Checking reinstatement status after work.	Physical observation	Fully completed	-	Burrow pit.	Earth purchased from GSMB approved burrow pit.
10.D) Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged	(1) Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place (iv) Allocation of separate lots for storage and parking.	Physical observation	Fully completed	-	Project area	Separate space allocated.
10.E) Dust generation	Regularly spray water on excavated soil surface to minimize	i) Adequacy of watering equipment available.	Physical observation	Fully completed	-	Project area	-

	generation of dust.	(ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks					
	When transporting all materials such as earth, sand and cement, cover them with tarpaulin to avoid spillage of materials and production of dust due to wind.	i) Covered trucks. (ii) Recordings of complains	Physical observation	Fully completed.	-	Project site/surrounding.	-
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials .	i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area	Physical observation	Fully completed	-	Project site/surrounding	-

		(iii) Recordings of complains from sensitive receptors.					
11.F) Increased noise level	Construction activities be carried out only during day time from 7am to 5pm every day. No night work allowed.	<p>i) Checking status of noise generated works .</p> <p>(ii) Recordings of complains from sensitive receptors.</p> <p>(ii) Noise reports obtained in case complaints or observations during supervision. (*CEA specific regulations for noise is 75 dB in day time)</p> <p>iv) Temporary noise barriers to be installed where required.</p>	<p>Public Complaints</p> <p>Noise reports</p>	Not required	-	Project site/surrounding	<p>No high noise generating machineries are used.</p> <p>No public complaints on high noise nuisance.</p>
11.G) Impacts on existing habitats in and outside the site.	Do not damage any natural habitats. Particularly endemic or endangered flora or fauna species should not damage/destroy. To maintain natural habitats plant more trees/scrubs/plant	<p>i) Signs of damage on habitats (ii) Availability of recorded biodiversity or fauna/ flora/ ecosystem lists/ reports include status of endemic, endangered (iii) Remains or introduced biodiversity inside and outside the site (iv) Signs of environmental degradation such as soil</p>	Physical observation	Not required	-	Project site	Pipe laying done in the road reservation where no sensitive natural habitats exist.

	s in the project area and the neighborhood	erosion, pollution in nearby area					
10.H) Damages to natural water bodies, drainage pattern and surrounding rainwater drains.	Do not damage, disturb or divert any water board, drainage flow either natural or built-up drainage flows surrounding areas.	i) Signs of alternation or devastation or added changes in natural water bodies (ii) Reduction or increase of water quantity (iii) Quality changes in natural drains (iv) Topographic map of the construction site and links to surrounding drains	Physical observation	Fully completed.	-	Project site	Pipe laying done over natural water body ensuring no disturbance to water flow. Photo 12 - Pipe being laid over a stream.
10.I) Solid & Liquid Waste generation in site and camping around	The solid & liquid wastes generated in site and camps need to be removed to approved/appropriate disposal yards. For that should be provided adequate garbage bins, equipment's and should be provided approved disposal yards	i) Checking of waste dump in site and camps (ii) Number of waste collecting baskets available in the site (iii) Recordings of periodic removal of solid waste (iv) Adequacy of disposal yards and obtained permits (v) Waste freeness of camping sites	Physical observation	Fully completed	Project site.	-	-
10.J) Occupational health and safety.	Safety Management Plan available and implemented	(i) Availability of PPEs. (ii) Workers wearing with PPEs.	Physical Observation	Above average	-	Project area	Photo 12 -Workers handling a pipe without gloves.

	PPEs shall be provided to all workers when and where necessary.	(iii) Records of accidents occurred.					
10.K)Community health and safety	Safety Management Plan available and implemented.	i) Contact numbers and information mentioned on the notice boards (ii) Given access and authority of Safety Officers (iii) Recordings of complains from sensitive receptors	Physical Observation	Fully completed range	-	Project area	

10) Water supply extension to Ibbagomuwa –NWP-AF-WS-CKD-05A



Photo 12 - A Pipe being laid over a stream. No gloves

North Western Province							
Component 1: Water supply in CKD affected areas							
11) Extension of Water Supply Scheme of Nikaweratiya/ Ambampola/ Maho.-NCP-AF-WS-CKD-14A							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action	Location of Monitoring	Remarks
Pre -Construction Phase.							
11.A) Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs during surveys and site clearing.	i) If any tree cutting occurred conduct replanting for compensate at least 1: 4 ratio. ii) Permits to be obtained when required.	Number of trees demarcated.	Physical observation	Not required	-	Project site	No trees demarcated. Pipe line trace shifted to avoid tree cuttings.
Construction Phase							
11.B)Environmental deterioration such as soil erosion, loss of green coverage by removing trees/scrubs	i) If any tree cutting occurred conduct replanting for compensate at least 1: 4 ratio. ii) Permits to be obtained when required.	i) No of trees removed with permits. ii) Re-planting site and no of trees replanted	Physical observation	Not required		Project site	Pipe line trace shifted to avoid tree cuttings.

11 C) Health impacts, soil degradation & earth slips by removal of earth & burrowing earth from burrow pit.	Apply standard methods with approvals obtained for removal & burrowing of earth from recommended areas. Source the materials from approved & qualified suppliers.	(i) GSMB approval for burrow pits . (ii) Checking reinstatement status after work.	Physical observation	Not required	-	Project site	No soil imported during this period.
11.D) Storage of materials/ Parking of machineries created environmental pollution & create damages and inconvenience.	Separate, standard & safe spaces to store materials/ park machineries need to be arranged.	1)Ad-hoc, scattered material storage and parking (ii) Observation for unsafe condition, air/ water/ land pollution (iii) Adequacy of storage and parking place. (iv) Allocation of separate lots for storage and parking.	Physical observation	Above average.	Instructed Project Manager to cover pipes.	Project site	Photo no 13- Uncovered pipes stored in site office premises. Soil, sand and cement not used during this period.
11.E) Dust generation in various construction and related activities	Apply standard methods for minimize dust generation. Regularly spray water on excavated soil surface to	(i) Checking methods used for construction (ii) Adequacy of watering equipment available (iii) Deployment of watering equipment as and when required	Physical observation	Not required	-	Project site	Project started end of October. As rain prevailed during this period no dust deposition

	minimize generation of dust.	(iii) Dust deposition in the vicinity.					observed in the surrounding .
	When transporting all materials such as earth, sand and cement, cover them with tarpaulin to avoid spillage of materials and production of dust.	(i) Adequacy of tarpaulin sheets available (ii) Deployment of tarpaulin sheets when required (iii) Gate/security person records on use of tarpaulin sheets to covering (iv) Recordings of complains from sensitive receptors.	Physical observation	Not required	-	Project site	Only pipes transported. No material such as cement, sand and soil etc transported.
	Appropriate measures shall be in place to minimize the emissions of dust while handling, loading/unloading of materials	(i) Adequacy of dust protection covering sheets available in material handling, loading/ unloading area. (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area. (iii) Recordings of complains from sensitive receptors.	Physical observation	Not required	-	Project site	No unloading of dust emitting material such as sand, cement ,concrete and metals etc. were not utilized during this period.

11.F)Increased noise level by disturbing to surrounding environment and community	Construction activities to be carried out during day time. Limit night work which creates noise.	i) Checking status of noise generated works (ii) Maintained recordings of workers daily time sheets . (iii) Recordings of complains from sensitive receptors (iv) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time</i>). v) Install temporary noise barriers where required.	Public Complaints Noise reports	Not required	-	Project site	High noise generating machines not used. No public comments on high noise. Work limited to only day time.
11.G)Impacts on existing habitats in and outside the site.	Do not damage any natural habitats. Particularly endemic or endangered flora or fauna species should not damage/destroy.	i) Signs of damage on habitats (ii) Availability of recorded biodiversity or fauna/ flora/ ecosystem lists/ reports include status of endemic, endangered (iii) Remains or introduced biodiversity	Physical observation Not required	Not required	-	Project site	No sensitive natural habitats disturbed during this reporting period.

	To maintain natural habitats plant more trees/scrubs/plants in the project area and the neighborhood	inside and outside the site (iv) Signs of environmental degradation such as soil erosion, pollution in nearby area					
11.H) Damages to natural water bodies drainage pattern and surrounding rainwater drains	Do not damage, disturb or divert any water board, drainage flow either natural or built-up drainage flows surrounding areas.	i) Signs of alternation or devastation or added changes in natural water bodies (ii) Reduction or increase of water quantity (iii) Quality changes in natural drains (iv) Topographic map of the construction site and links to surrounding drains	Physical observation	Not required	-	Project site	Excavation not done disturbing any natural water body or drainage. Ref Photo 14 – Typical landscape where pipe laying done.
11.I) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred.	Physical Observation	Average	instructed Project Manager to provide PPEs to all workers and ensure their safety	Project area	Photo 15- Lack of PPEs.

11.J)Community health and safety	Safety Management Plan available and implemented.	i) Contact numbers and information mentioned on the notice boards (ii) Given access and authority of Safety Officers (iii) Recordings of complains from sensitive receptors.	Physical Observation	Average	Instructed Project Manager to take safety measures to ensure community safety.	Project area	<p>Photo 16- No safety signs at road side.</p> <p>Photo No 17- Conducted one day work shop on ADB Safeguard policies and Principals to Contractor and Project field staff on 04th Oct.2018.</p>
11.K)Waste generation and camping around	The solid wastes generated need to be removed to appropriate disposal yards	i) Checking of waste dump in site and camps (ii) Number of waste collecting baskets available in the site (iii) Recordings of periodic removal of solid waste (iv) Approved disposal yard. (v) Waste freeness of camping sites.	Physical Observation	Above average	Instructed Project Manager to remove debris currently stored at temporary sites to a LA approved site.	Project area	This issue was discussed at monthly progress meeting and contractor had agreed to resolve it.

11) Extension of Water Supply Scheme of Nikaweratiya/ Ambampola/ Maho.-NCP-AF-WS-CKD-14A



Photo no 13-Uncovered pipes stored in site office premises



Photo 14 – Typical landscape where excavation done for pipe laying by the side of the road.

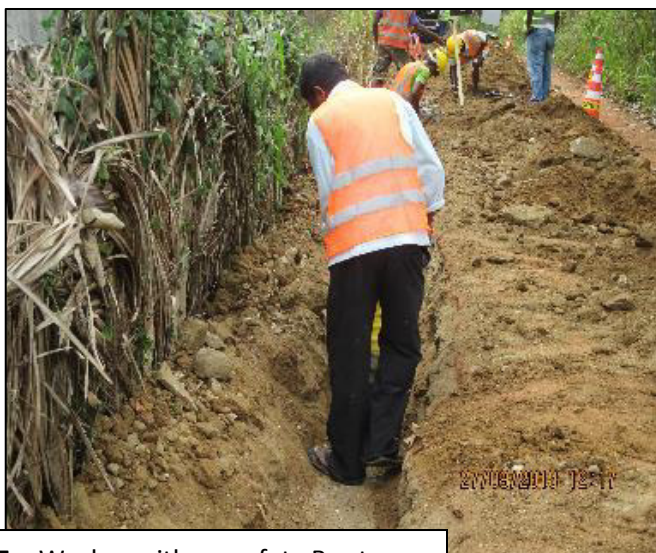


Photo no 15 – Worker with no safety Boots



Photo 16- No safety signs placed at road side.



Photo No 17-One day work shop on ADB Safeguard policies and Principals to Contractor and Project field staff on 04th Oct.2018.

Uva Province - Category B							
Component 1: Water supply in CKD affected areas							
12) Water Supply Scheme for Rideemaliyadda -(Part 1 - Kuralewela Water Supply Subproject-UVA-AF-WS-CKD-16							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action	Location of Monitoring	Remarks.
Pre -Construction Phase- No pre construction activities carried out under this period.							
Construction Phase							
12.A)Traffic congestion during road excavation.	To implement a proper traffic control plan using sign boards, barricade tapes, and flag men.	i)Traffic Management plan implemented. ii) Road safety measures.	Physical Observation	Not required	-	Project area.	No traffic issue as the project area located in a remote area.
	Alternative spaces to store materials/ park machineries need to be arranged.	Space allocated for stock piling and parking machineries.	Physical Observation	Fully completed	.	Project area.	Machineries are parked in the area allocated and material stock filed in an allocated area in the site.
12.B)Damages to existing roads	Excavations to be carried out after studying design drawings. It will minimize unnecessary damages on roads.	Undamaged roads.	Physical Observation	Fully completed.	.	Project area.	Drawings designed to minimize road damages.

	Small to medium size machineries will be used for narrow roads.	Use of small sized machineries.	Physical Observation	Fully completed	-	Project area.	Only small & medium size machineries were used. No damages to roads.
12.C)Dust generation	Regularly spray water on excavated soil surface to minimize generation of dust.	i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Fully completed.	-	Project site/surrounding.	Photo No 16. Construction site dust free. .
	When transporting all materials such as earth, sand and cement, cover them with tarpaulin to avoid spillage of materials and production of dust due to wind.	i) Covered trucks. (ii) Recordings of complains	Physical Observation	Fully completed	-	Project site/surrounding	Material were transported by covered trucks.
	Appropriate measures shall be in place to minimize the emissions of dust	i) Adequacy of dust protection covering sheets available in	Physical Observation	Fully completed.	-	Project area.	Dust protection covering sheets were not adequate

	while handling, loading/unloading of materials	material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area.					during 1 st quarter and resolved later.
12.D) Increased noise level	Construction activities be carried out only during day time from 7am to 5pm every day and limited night work be done for the concrete slabs.	i) Checking status of noise generated works. (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained in case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 dB in day time,</i>	Public Complaints Noise reports	Fully completed	-	Project area.	No public complaints received.
12.E)Impacts on existing habitats	No endemic or endangered tree species are damaged and to control soil erosion, plant more trees in the project area and the neighborhood.	Undisturbed natural habitats. Area planted with trees	Physical Observation	Fully completed	-.	Project area.	No natural habitats disturbed by project activities.
12.F)Damages to natural drainage pattern	No impact for drainage flow as drainage flows down along roads	Undisturbed drainage flows.	Physical Observation	Fully completed	-	Project area.	Natural drainage was not disturbed

	and surrounding areas.						during this period while pipe laying.
12.G) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred.	Physical Observation	Fully completed.	-		Photo No 17 -PPEs used while working. Photo 18 -Safety signs board.
12.H)Waste generation and camping around	The solid wastes generated need to be removed to appropriate disposal yards	The solid wastes generated need to be removed to appropriate disposal yards	i) Waste free site. ii)Disposal of waste into the approved site.	Fully completed	-	Project site/ Disposal site.	-

12) Water Supply Scheme for Rideemaliyadda - (Part 1 - Kuralewela Water Supply Subproject-UVA-AF-WS-CKD-16.



Photo 16- Completed construction site



Photo 17- Workers with PPEs.



Photo 18 – Safety sign board.

Uva Province - Category B							
Component 1: Water supply in CKD affected areas							
13)Water Supply Scheme for Rideemaliyadda (Part 2 - Ekiriukumbura Water Supply Subproject)-UVA-AF-WS-CKD-16							
Impacts / Environmental Issue	Mitigation Measures	Parameters Monitored	Method of Monitoring	Compliance Status	Further Action.	Location of Monitoring	Remarks
Pre- Construction Phase- No pre- construction activities occurred during this period.							
Construction Phase							
13.A)Traffic congestion during road excavation.	To implement a proper traffic control plan using sign boards, barricade tapes, and flag men.	i)Traffic Management plan implemented. ii) Road safety measures	Physical Observation	Not required	-	Project area.	As the area is a remote area with no traffic at all, implementation of a traffic plan was not required.
	Alternative spaces to store materials/ park machineries need to be arranged.	Space allocated for stock piling and parking machineries.	Physical Observation	Fully completed	-	Project area.	Machineries are parked in the area allocated and material stockfiled in an allocated area in the site.
13.B)Damages to existing roads	Excavations to be carried out after studying the design drawings. It	Un-damaged roads.	Physical Observation	Fully completed.	-	Project area.	No road damage occurred during construction period.

	will minimize unnecessary damages on roads						
	Small to medium size machineries will be used for narrow roads.	Use of small sized machineries	Physical Observation	Fully completed	-	Project area.	Only small & medium size machineries were used
13.C)Dust generation	Regularly spray water on excavated soil surface to minimize generation of dust.	i) Adequacy of watering equipment available. (ii) Deployment of watering equipment as and when required. (iii) Dust deposition over the neighboring buildings. iv) Workers wearing dust masks	Physical Observation	Fully completed	-	Project site/surrounding	-
	When transporting all materials such as earth, sand and cement, cover them with tarpaulin to avoid spillage of materials and production of dust due to wind.	i) Covered trucks. (ii) Recordings of complaints	Physical Observation	Fully completed	-	Project site/surrounding	Materials transported by covered trucks.
	Appropriate measures shall be in place to minimize the	i) Adequacy of dust protection covering sheets available in	Physical Observation	Fully completed	-	Project site.	-

	emissions of dust while handling, loading/unloading of materials	material handling, loading/ unloading area (ii) Deployment of dust protection covering sheets available in material handling, loading/ unloading area.					
13.D) Increase of noise level .	Construction activities be carried out only during day time from 7am to 5pm every day and limited night work be done for the concrete slabs.	i) Checking status of noise generated works . (ii) Recordings of complains from sensitive receptors . (ii) Noise reports obtained case complaints or observations during supervision. (<i>*CEA specific regulations for noise is 75 day time</i>)	Public Complaints Noise reports	Fully completed	-	Project area.	No complaints received from public on high noise and also work limited to only day time.
13.E) Occupational health and safety.	PPEs shall be provided to all workers when and where necessary.	(i) Availability of PPEs. (ii) Workers wearing with PPEs. (iii) Records of accidents occurred.	Physical Observation.	Fully completed.	Project Manager was instructed to ensure all workers wear PPEs.	Project area.	No accidents were reported. PPEs issue resolved.
13.F)Impacts on existing habitats	No endemic or endangered tree species are damaged and to	i)Undisturbed natural habitats.	Physical Observation.	Not required.	-	Project area.	Natural habitats not disturbed while excavation.

	control soil erosion, plant more trees in the project area and the neighborhood .	ii)Area planted with trees					Photo 19- A Large tree saved.
13.G)Damages to natural drainage pattern.	No impact for drainage flow as drainage flows down along roads and surrounding areas.	Undisturbed drainage flows.	Physical Observation	Not required	-	Project area.	Natural drainage not disturbed by construction work.
13.H)Waste generated .	The solid wastes generated need to be removed to appropriate disposal yards.	The solid wastes generated need to be removed to appropriate disposal yards.	i) Waste free site. ii)Disposal of waste into the approved site.	Fully completed.	-	Project site/ Disposal site.	Solid waste issue was resolved during this period.

13- Water Supply Scheme for Rideemaliyadda (Part 2 - Ekiriuankumbura Water Supply Subproject)-UVA-AF-WS-CKD-16



Photo 19 – Construction done without removing a Large tree .

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

Project Name
Contract Number

NAME: _____ DATE: _____
TITLE: _____ DMA: _____
LOCATION: _____ GROUP: _____

WEATHER CONDITION:

INITIAL SITE CONDITION: _____

CONCLUDING SITE CONDITION:

Satisfactory _____ Unsatisfactory _____ Incident _____ Resolved _____ Unresolved _____

INCIDENT:

Nature of incident:

Incident Issues

Resolution

Project Activity Stage	Survey	
	Design	
	Implementation	
	Pre-Commissioning	
	Guarantee Period	

Inspection

Emissions	Waste Minimization		
Air Quality	Reuse and Recycling		
Noise pollution	Dust and Litter Control		
Hazardous Substances	Trees and Vegetation		
Site Restored to Original Condition	Yes	No	

Signature

Sign off

Name
Position

Name
Position

Local Government Enhancement Sector Project: Additional Financing (LGESP - AF)

Status Summery Report Category “C” Sub-projects (As at 31.12. 2018).

Component 2: Service Delivery Improvement

Central Province			
S. No	Project area	Package No	Status
01	Construction of Maternity & Health Care Center & Community Hall for Malate PS .	CP-AF-MAT-03	DDR Environment Report has been approved by the ADB. Contract Awarded. Physical works are in progress
02	Construction of PS Sub Office, Library & Community Hall at Nanuoya for Nuwara-Eliya PS	CP-AF-NUW-05	DDR Environment Report has to been approved by the ADB. Contract Awarded. Physical works are in progress
03	Construction of Maternity Care center at Kurukuttala for Udunuwara	CP-AF-UDU-06	DDR Environment Report has been approved by ADB Contract Awarded. Physical works are in progress

04	Construction of Clinic, Library and Community Hall with 200 chairs each in Mahawatta and Polgolla for Kundasale PS	CP-AF-KUN-02	DDR Environment Report approved by ADB. Work in progress for Mahawatta & Polgolla
05	Construction of Vehicle Park and Daily Market at Gelioya	CP-AF-UDU-01	DDR Environment Report approved by ADB. Work in progress .
06	Construction of Multipurpose Building and development of roads in town area	CP-AF-PAL-04	DDR Environment Report approved by ADB. Work in progress.
07	Balance work of water supply project (Udapalatha,Ududumbara and Wilgamuwa-Handugamuwa, Wilgamuwa – Hettipola)	CP-AF-WS-AW-01	DDR Environment Report approval was pending.
08	Construction of Multipurpose Building including PS office in Agrapatana.	CP-AF-AGR-07	DDR Environment Report approval was pending. Design in progress.
09	Construction of Multipurpose Building including PS office in Kotagala.	CP-AF-AGR-08	DDR Environment Report approval was pending. Design in progress.

North Western Province			
10	Construction of PS Building and Library at Naramalla.	NWP-AF-NAR-02	DDR Environment Report has been approved by ADB. Contract awarded.
11	Construction of New Public Market Complex in Polgahawela for Polgahawela PS.	NWP-AF-POL-01	DDR Environment Report has been approved by ADB. Contract awarded.
12	Construction of new library building at Dunkannawa for Naththandiya PS with supplying of furniture	NWP-AF-NAT-03	DDR Environment Report preparation is in progress . Contract awarded
13	Panangoda, Mahilawa, Kruswatte drinking water Supply projects for Naththandiya PS.	NWP-AF-NAT-06	Yield testing, water quality checking is being done, pending water quality reports in both schemes. Architectural designs are in progress.
14	Construction of Multipurpose Building at Madurankulya,Puttalam.	NWP-AF-PUT-04	DDR Environment Report preparation is in progress. Design in progress.
15	Construction of Multipurpose Building including PS office at Thiththawela for Kurunegala PS.	NWP-AF-KUR-05	DDR Environment Report has been approved by ADB. Contract awarded.

Southern Province			
16	Improvement of existing PS premises with Auditorium & Vehicle Park at Batapola for Ambalangoda PS.	SP-AF-AMB-06	DDR Environment report has been approved by ADB. Construction works on going
17	Construction of PS building with Ayurvedic center & conferer hall at Baddegama for Baddegama PS	SP-AF-BAD-07	DDR Environment report has been approved by ADB. Construction works on going
18	Construction of multipurpose building at Balapitiya town for Balapitiya PS	SP-AF-BAL-08	DDR Environment report has been approved by ADB. Construction works on going.
19	Construction of Weekly fair at Goonagala for Bentota PS	SP-AF-BEN-05	DDR Environment report has been approved by ADB. Construction works on going.
20	Construction of PS Sub office at Haburugala,Ayuruveda,Library and Conference Hall for Bentota PS.	SP-AF-BEN-10	DDR Environment report has been approved by ADB. Bid evaluation in progress.

21	Construction of PS Building with Library & Ayurveda Center & PS Chamber (3 storied building) for Habaraduwa PS.	SP-AF-HAB-04	DDR Environment report has been approved by ADB. Construction works on going.
22	Construction of PS Building with Ayurvedic Centre at Nayagoda for Rathgama PS.	SP-AF-RAT-09	DDR Environment report has been approved by ADB. Construction works on going.
23	Construction of Crematorium and access road to the crematorium at Warakapitiya for Weligama PS.	SP-AF-WEL-03	DDR Environment report has been approved by ADB. Bid Evaluation in progress.
24	Construction of PS building for Tangalle PS and Multipurpose Bldg. (Bus stand, weekly fair, Post office & Toilet block) at Netolpitiya for Tangalle PS	SF-AF-TAN-01	DDR Environment report has been approved by ADB. Construction works on going
25	Improvement of Kekanadura sub town for Matara PS (a) Bus stand, Three-wheeler Park with Drainage sys. (b). Construction of existing building above 1st floor with roof for library, PS Sub office and Auditorium	SP-AF-MAT-02	DDR Environment report submitted to ADB. Evaluation in progress.

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26	Construction of Multipurpose building including public Library, Ayurveda, Preschool and Children park at Nahena for Kelaniya PS .	WP-AF-KEL-01	DDR Environment report preparation is in progress. Design in progress.
27	Construction of Multipurpose bldg. including PS office, medical centre, ayurveda, public library and pre-school at pahala Karagahamuna for Mahara PS.	WP-AF-MAH-02	DDR Environment report has been approved by ADB. Work in progress..
28	Construction of Auditorium and Community Hall at Kadirana area	WP-AF-KAT-03	DDR Environment report has been approved by ADB. Work in progress.
29	Construction of Multipurpose bldg. including public market, main PS Office.	WP-AF-WAT-04	DDR Environment report has been approved by ADB. Work in progress.
30	Construction of Multipurpose building including public Library at Kandana for Ja-Ela PS.	WP-AF-JAL-05	DDR Environment report has been approved by ADB. Work in progress.
31	Construction of Public Market and Car Park with a Toilet Block at Homagama town for Homagama PS	WP-AF-HOM-06	DDR Environment report has been approved by ADB. Work in progress

32	Construction of public market at Wadduwa for Panadura PS.	WP-AF-PAD-07	DDR Environment report has been approved by ADB. Bid evaluation on progress.
33	Construction of office complex including Ayurvedic Centre, main office and Public Library at Aluthgama for Beruwala PS.	WP-AF-BER-08	DDR Environment report has been approved by ADB by ADB. Work in progress.
34	Construction office building including main office, Car Park, PS chamber and Auditorium at Waskaduwa.	WP-AF-KAL-09	DDR Environment report has been approved by ADB Work in progress.