

Environmental Monitoring Report

Report: Semi-Annual Report

Reporting Period: June to December 2019

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Sri Lanka: Health System Enhancement Project

Prepared by Project Management Unit (PMU) of Health System Enhancement Project (HSEP), Ministry of Health, Nutrition and Indigenous Medicine, Colombo, Sri Lanka for the Asian Development Bank.

CURRENCY EQUIVALENTS

(as of 01 December 2019)
Currency Unit = Sri Lanka Rupees (SLR)
SLR 1.00 = US \$ 0.0057
US \$1.00 = SLR 176.22

ABBREVIATIONS

ADB	–	Asian Development Bank
CEA	–	Central Environmental Authority
DS	–	Divisional Secretary
EA	–	Executing Agency
EHS	–	Environment, Health & Safety
EMP	–	Environmental Management Plan
EMoP	–	Environmental Monitoring Plan
EPL	–	Environmental Protection License
GN	–	<i>Grama Niladhari</i>
GoSL	–	Government of Sri Lanka
GRM	–	Grievance Redress Mechanism
H&SP	–	Health and Safety Plan
HSEP	–	Health System Enhancement Project
IEE	–	Initial Environmental Examination
M&E	–	Monitoring & Evaluation
NEA	–	National Environmental Act
O&M	–	Operation and Maintenance
PD	–	Project Director
PIU	–	Project Implementation Unit
PMU	–	Project Management Unit
PPE	–	Personal Protective Equipment
PS	–	<i>Pradeshiya Sabha</i>
RoW	–	Right of Way
SPS	–	Safeguard Policy Statement

WEIGHTS AND MEASURES

km	–	kilometre
km ²	–	square kilometre
m ²	–	square meter
mm	–	millimetre

NOTES (i) In this report, "\$" refers to US dollars. (ii) The fiscal year (FY) of the Government of Sri Lanka and its agencies is the Calendar Year

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1. INTRODUCTION

1.1 OVERALL PROJECT DESCRIPTION AND OBJECTIVES

1. Strengthening primary healthcare (PHC)— both primary curative care and preventive health services—in Sri Lanka needs priority attention to tackle the rising costs of health care as well as to improve basic health services to lagging populations to meet the emerging public health challenges. The current health system under-invests in primary care, and limited government funds largely cater to higher-level hospitals. The underinvestment at the primary care level has led to inadequate facilities and generally poor utilization of primary care level institutions and increased burden on higher-level health care facilities. As hospital care is costly, overuse of hospital services also creates inefficiency in the use of government health expenditures.

2. Given this background, the government has begun reforms to rationalize health care utilization with increased focus and orientation towards PHC to meet the emerging challenges in the health sector. The actual reform model is still evolving, and there is a need for external assistance to further inform and help operationalize PHC reform initiatives.

3. The Health System Enhancement Project (HSEP) will be the first ADB-financed health operation in Sri Lanka after a gap of 20 years. This reentry project will be for \$60 million (comprising \$37.5 million in concessionary loan and \$12.5 million grant, and \$10 million equivalent from the Government of Sri Lanka in counterpart funds). It will be delivered through a project investment modality and is expected to be effective from 1 December 2018 and will complete on 30 November 2023.

4. The proposed project will improve efficiency, equity, and responsiveness of the primary health care (PHC) system based on the concept of providing universal access and continuum of care to quality essential health services.

5. The project pursues an equity perspective in planning and delivering essential primary health services. It expects to inform further and operationalize government PHC reform initiatives to reduce bypassing of PHC facilities by providing more comprehensive services, including for NCDs, develop a referral system, and functionally integrating preventive and curative services. Furthermore, the project will target underserved communities' access to PHC, and address selected gaps in core public health surveillance in line with the international health regulations (IHR).

6. The project is targeting all nine districts in four provinces of Central, North Central, Sabaragamuwa, and Uva with a special focus on the geographically, socially, and economically-deprived populations.

7. The proposed Health Sector Enhancement Project (HSEP), financed by the ADB, will support some of the reforms by renovating and expanding physical infrastructure in about 30% (135) of the primary medical care facilities (especially for better outpatient's care), equipping for better point of care services and introducing more efficient disease surveillance and patient information management. Selection of facilities for improvement under the project has been based on several agreed vulnerability criteria and mapping. The investment is aligned with the government's priorities identified in the Public Investment Program (2017–2020), as well as with the Health Master Plan's National Strategic Framework for Development of Health Services (2016–2025). The project is also in line with the ADB Sri Lanka Country Partnership Strategy (2018–2022) and reinforces ADB's inclusive growth agenda in the midterm review of strategy 2020.

Objectives of the Project

8. The objective of the project is to improve services offered by the primary medical care facilities that include primary health care units (PMcUs), divisional hospitals (DHs) and field health centres. To support the project objectives, selected primary medical care facilities and field health centres in the four provinces will be upgraded with the following broad guidelines.

- a. Improving services of the outpatients' department by expanding the patient waiting areas to accommodate greater numbers and adding more consultation rooms, dressing rooms, examination rooms and staff/patient restrooms
- b. Upgrading/renovating drug stores and dispensary
- c. Constructing/renovating laboratories, dental units and ETUs

1.1 DESCRIPTION OF SUB-PROJECTS

1.1.1 Expected outcomes of the Project

9. The expected project impact is to ensure a healthier nation by supporting a more responsive and comprehensive primary health care system in Sri Lanka. The project outcome is to improve efficiency, equity and responsiveness of the health system.

- a. Output 1: Primary Health Care enhanced in Central, North Central, Sabaragamuwa, and Uva provinces
- b. Output 2: Health information and disease surveillance capacity strengthened
- c. Output3: Policy development, capacity building, and project management supported

a. Output 1: PHC enhanced in Central, North Central, Sabaragamuwa, and Uva provinces

10. The output one of the project intends to strengthen the primary health care (PHC) services in the target provinces of Central, Sabaragamuwa, Uva and North Central with a special focus on the socially, economically and geographically disadvantaged populations.

11. The PHC services are defined as primary health care services that are provided via curative level facilities (Primary Medical Care Units and the Divisional Hospitals) and via the preventive health network led by the Medical Officers of Health. Output 1 of the project intends to address the following aspects of PHC services defined into 4 sub-activities.

- (i) Development of primary medical care services

Under this sub-output, the project supports the development of curative PHC facilities (this includes Divisional Hospitals and PMcUs). The health facilities were identified by a two-stage objective analysis using a vulnerability index and the geographic information system (GIS) tool in consultation with the MOHNIM and the four provinces. In the first stage, the vulnerability index was used to identify the vulnerable population in the target provinces, and the GIS tool was able to link the nearest PHC to the vulnerable populations. Based on this calculation, the priority list of PMcUs and Divisional Hospitals that require development was identified. Thereafter, in the second stage, in discussion with the provinces, the respective districts, and the MOHNIM, two additional criteria, (i) any facility without basic services water, electricity, sanitation services, (ii) any facility that needed development based on local knowledge and needs were considered to finalize a list of 15 facilities per district as the priority list of

PMcus and Divisional Hospitals that require to be developed under the project. This amounts to 29% (135/469) of all PMcus and Divisional Hospitals in the four provinces. The list of 135 PMcus and DHs are given in Annex 1.

Table 1.1: Number of hospitals included in the project

Type of hospital	Central	Uva	North Central	Sabaragamuwa	Total
DHA	2	1	0	5	8
DHB	8	9	4	2	23
DHC	18	10	7	8	43
PMCU	17	10	19	15	61
TOTAL	45	30	30	30	135

(ii) Development of primary preventive care services

Under this sub-output, the project intends to renovate and refurbish at least one field health centre per medical officer of health area (132 medical officers of health areas in the four provinces). The designs and renovations will also be based on the MOHNIM approved physical space norm for PHCs. There are 127 field health centres identified for this project, which are listed in EARF.

(iii) Public awareness and behaviour change communication for increasing PHC utilization and creating demand.

(iv) Strengthen PHC management for continuity of care

b. Output 2: Health information and disease surveillance capacity strengthened

12. This output intends to strengthen health and disease surveillance to provide real-time sharing of health information across levels of facilities and across different episodes of care for an individual patient. This will help enhance the disease surveillance capacity of the system and will establish a system for continuity of care to health seekers. The proposed pilot intervention of establishing a cluster of facilities (PMcus and DHs linked to one secondary health care facility based on health-seeking behaviour and road accessibility to the facilities) in each of the districts (9 clusters) will facilitate the notification process of the 28 notifiable diseases of Sri Lanka and improve the quality of care received by health seekers at the PHC level.

13. Furthermore, this output will initiate to establish a real-time link from curative to preventive primary health care for early initiation of disease investigation of the notifiable diseases by the field-based public health inspectors attached to the medical officer of health areas.

14. In addition, this output also intends to support the government of Sri Lanka to implement the recommendations of the Joint External Evaluation of the International Health Regulations. (IHR).

15. Output 2 of the project intends to address the following aspects health and disease surveillance defined into 2 sub-activities:

- (i) Health Information technology for better continuity of care and disease surveillance; and
- (ii) Support to implementation of IHR-related to ports of entry (POE).

c. Output 3: Policy development, capacity building, and project management supported

16. Output 3 of the project intends to support policy development to enhance the impact of the project activities. As the project envisages to strengthen PHC in Sri Lanka with a focus in the lagging provinces to provide a responsive and a comprehensive package of services to the population, it is essential to focus in a few prioritized policy areas that need to be addressed for successful implementation of the project. This Output will support policy-related tasks to improve PHC services in Sri Lanka, as well as establishment and operations of project management and implementation units.

17. Output 3 of the project intends to support the following tasks described in the sub-activities:

- (i) Support to policy
- (ii) Capacity development, and
- (iii) Project management and results monitoring

1.1.2 Program Locations

18. The program will be implemented in four lagging provinces in the country through the Ministry of Health, Nutrition and Indigenous Medicine (MOHNIM) and Directorates of Health Services at the provincial and district levels. The provinces are Central, North Central, Sabaragamuwa, and Uva, and include 9 districts in all. The program will focus on improving service delivery in the most vulnerable areas. Therefore, the Health Sector Enhancement Project (HSEP) implementation will be rolled out in areas prioritized according to a vulnerability index that has been developed using selected criteria.

19. The sub-projects are listed in Annex 1 and shown in Figures 1a, 1b, 1c and 1d.

1.1.3 Scope of Civil Work

20. Civil works under the program will be focused mainly on expanding facilities within the Out-Patient's Department (OPD) in Primary Medical Care Units (PMCU) and Divisional Hospitals, typically adding between 1,000 to 2,000 sq. feet to the existing building footprint within the same premises depending on the institution's requirements. Upgrades to OPDs will typically include new consultation rooms, dressing rooms, and expanding patient waiting areas, addition/renovation of emergency treatment units (ETU), laboratories, dispensary, drug stores, staff restrooms and toilets. Some work could also include minor renovations such as tiling of floors and walls, electrical re-wiring and lighting, plumbing and repair to toilets and septic systems, fixing ceilings and roofing, new furniture, lighting, fixtures and other fittings.

1.2 ENVIRONMENTAL CATEGORY OF THE SUB-PROJECTS

1.2.1 Environmental category as per ADB Safeguard Policy Statement, 2009

21. The HSEP is categorized as an Environmental Category B. As such the project will establish an environmental safeguard process commensurate with the level of anticipated impacts and policy requirements of a category B to ensure that it is environmentally sound and are designed to operate in compliance with applicable regulatory requirements.

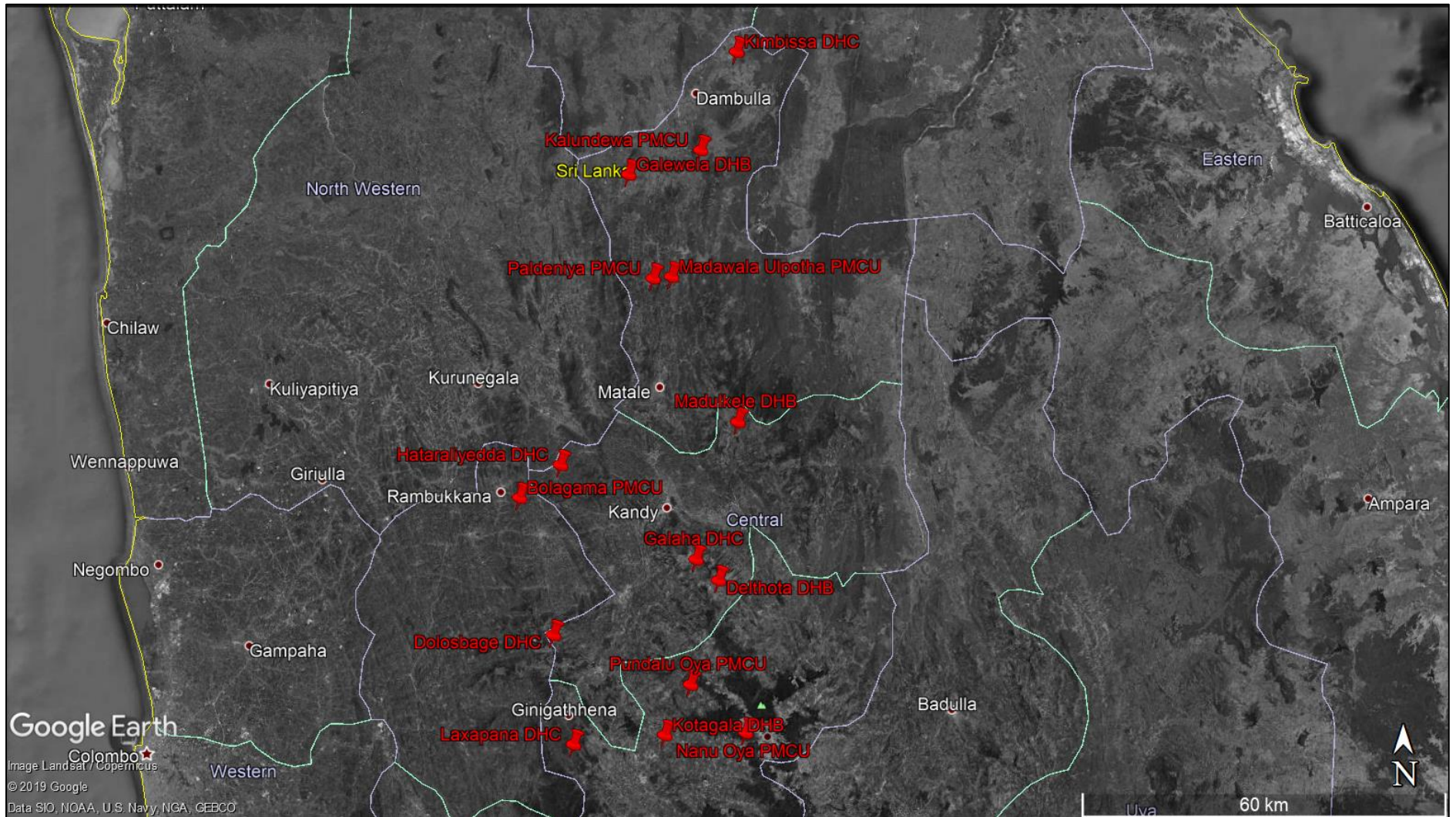


Figure 1a. Sites in the Central Province (Site locations are shown in Red)

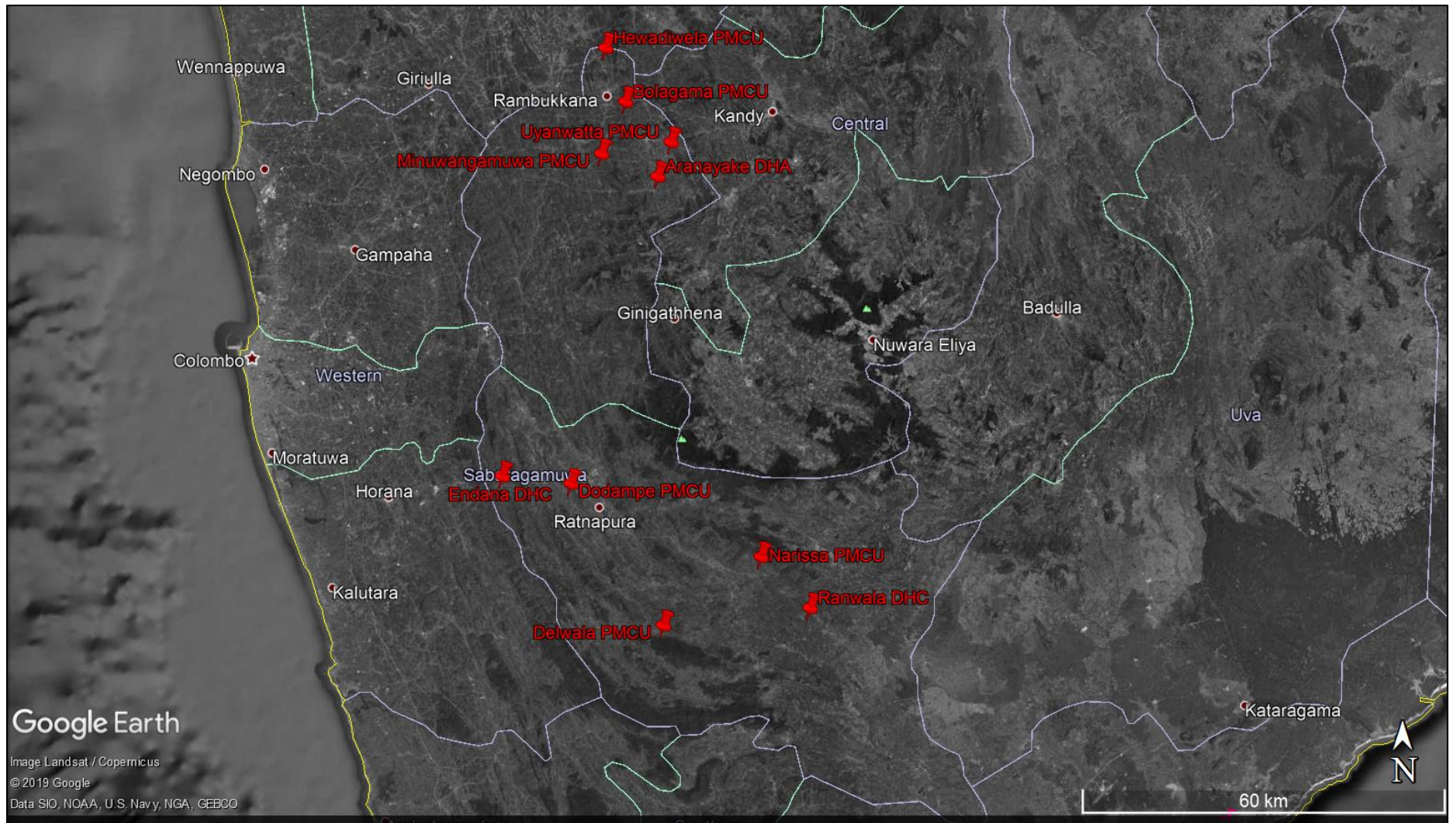


Figure 1b. Sites in the Sabaragamuwa Province (Site locations are shown in Red)

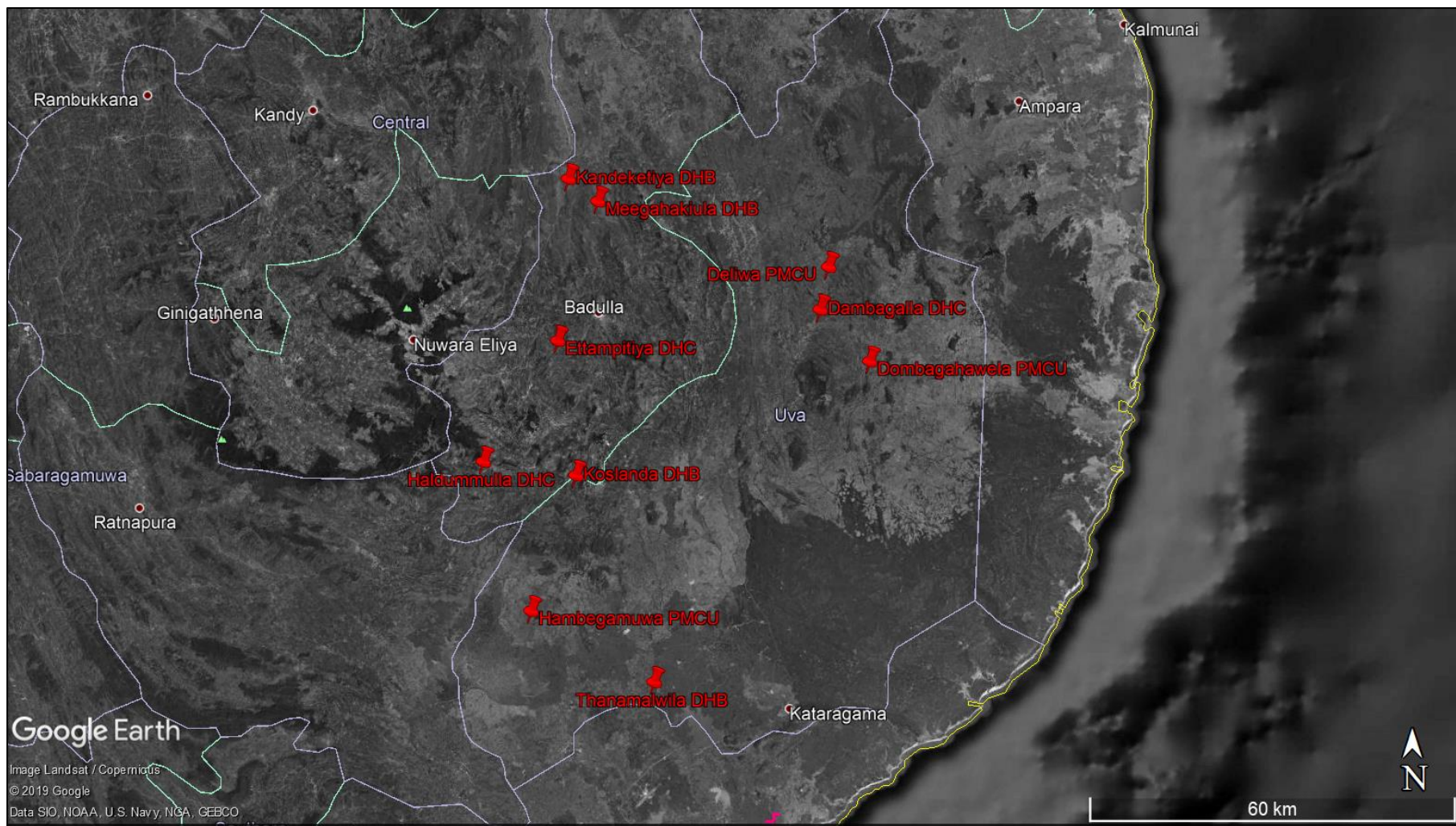


Figure 1c. Sites in the Uva Province (Site locations are shown in Red)

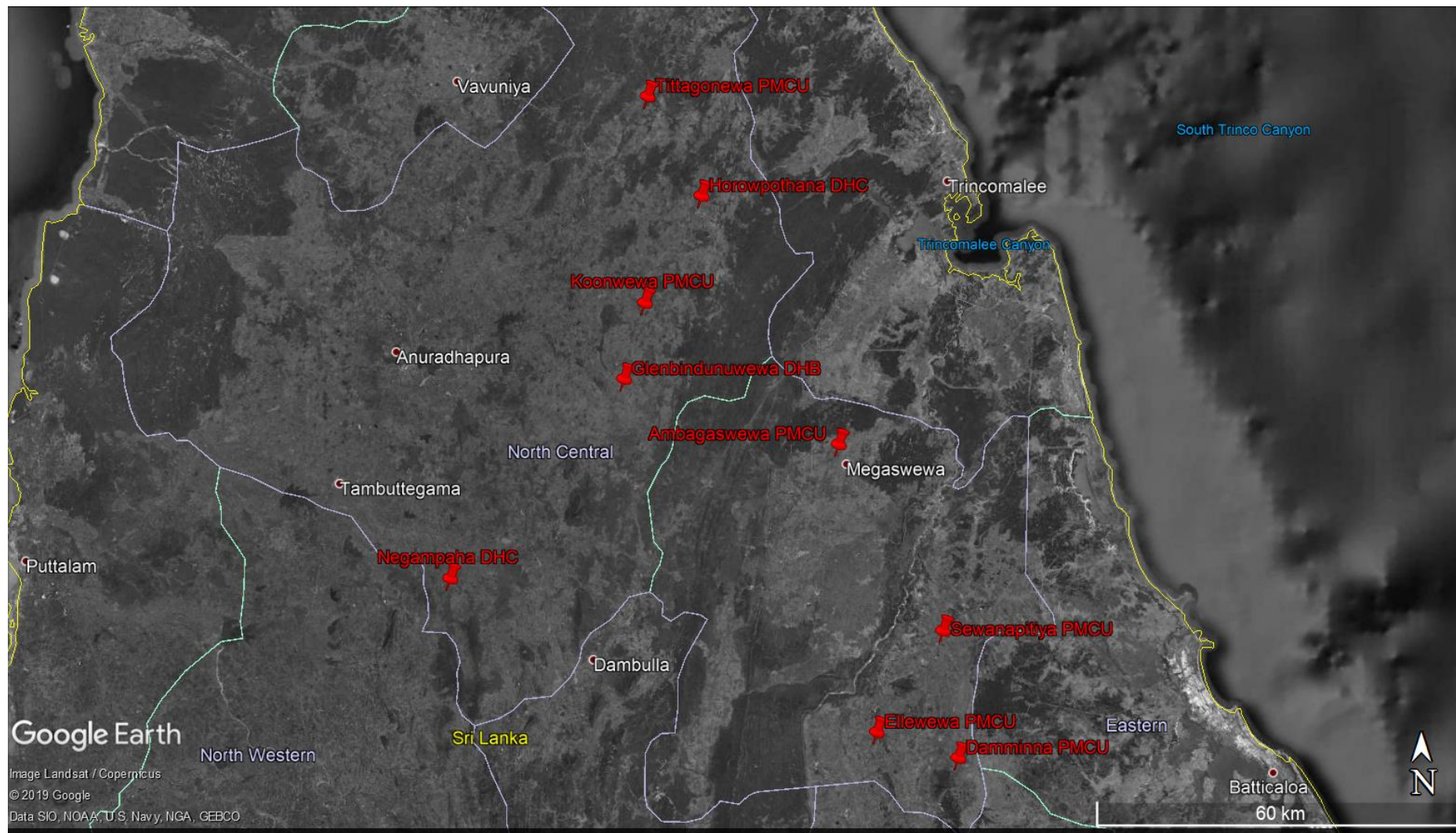


Figure 1d. Sites in the North Central Province (Site locations are shown in Red)

1.2.2 Environmental category of each subproject as per national laws and regulations

22. The provision for EIA is contained in Part IV C of the NEA, which requires the submission of an IEE or EIA report in respect of specific prescribed projects. These are specified in Gazette Extraordinary No 772/22 dated 24 June 1993, No. 1104/22 dated 27 October 1999 and No. 1108/12 dated 05 November 1999 include the following:

- (i) For Prescribed Projects as defined in NEA (1980, 1988, 1993, 2000): PART I: 31 Projects and Undertakings if located wholly or partly outside the coastal zone (Infrastructure + Large Scale Development Projects); PART II: Projects in PART I and 20 Industries; PART III: if located wholly or partly within an Environmental Sensitive Area (Note: none of the components of proposed project falls under any of these categories)
- (ii) Projects that fall within sensitive areas as defined in the National Environmental (Procedure for approval of projects) Regulations, No.1 of 1993.

23. The sub-projects that are included under HSEP will not require an IEE or EIA as the project areas do not fall under the any of the sensitive areas as defined by Regulations, No.1 of 1993, as cited above.

1.2.3 Monitoring requirement

24. According to the EARF prepared for the project, the HSEP has been categorized as a 'Category B' project under the ADB Environmental Safeguard project categorization (ADB SPS, 2009). Accordingly, an Initial Environmental Examination (IEE) has been carried out by the Project Proponent. In the IEE report, applicable laws/legislation and policy framework have been reviewed, and environmental mitigation measures have been recommended for implementation during construction and operation stages of the project and its associated facilities. Accordingly, a comprehensive Environmental Management Plan (EMP), and Environmental Monitoring Plan (EMoP) have been provided, and the need for subsequent environmental monitoring has been identified. As such the project is in the process of establishing an environmental monitoring process commensurate with the level of anticipated impacts and policy requirements of a category B to ensure that it is environmentally sound and are designed to operate in compliance with applicable regulatory requirements.

1.2.4 Objective of this Report

25. The Environmental Specialist of the PMU has now been mobilized and commenced the work in mid-November 2019 on monitoring of implementing the EMP and the EMoP by the Project Implementation Units (PIUs) and Contractors of the sub-projects of HSEP. The Environmental Specialist first met the officials of the PMU and collected the documents prepared which described the EMP and the EMoP for the project. Subsequently, he visited the project areas in November & December 2019.

26. This report serves as the Semi Annual Report (covering the period of 1 July 2019 to 31 December 2019) of the monitoring of implementation of the EMP and EMoP. The report is mainly about the project readiness and compliance of project interventions with local (environmental) regulations, implementation of the EMP and the EMoP. This report also describes the process of implementation of a regular process for environmental reporting by the PIUs, Contractors and the Design & Supervision Consultants. The subsequent ones will mainly focus on the implementation of the EMP and the EMoP. However, any compliance requirements that arises during construction stage will be included when and where they are pertinent.

1.3 DETAILS OF SITE PERSONNEL AND/OR CONSULTANTS RESPONSIBLE FOR ENVIRONMENTAL MONITORING

Table 1.2: Persons responsible for Environmental Monitoring

Name	Designation/Office	Email Address	Contact Number
1. PMU			
Dr. Anil Dissanayke	Project Director	hseppd@gmail.com	0777591613
Dr. Sisira Liyanage	Deputy Project Director	dpdhsep@gmail.com	0777591613
Mr. Asantha Subasingha	M & E Officer	hsep.me@gmail.com	0716287216
Dr. Eng. Jagath Manatunge	Environmental Specialist	manatunge@gmail.com	0718045546
2. PIUs			
Central Province			
Dr. Arjuna Thilakarathna	Deputy Project Director	dpd.piucp@gmail.com	0714427094
Eng. Mrs. Hemali Alagiyawanna	Project Engineer	eng.piucp@gmail.com	0713350258
Mr. Upul Wijerathna	M & E Officer	mande.piucp@gmail.com	0776148748
Uva Province			
Dr. Mrs. J.C.M. Tennekoon	Deputy Project Director	dpd.uvapiu@gmail.com	071-4479509
Eng. D.M.J.C.B. Jayawardhana	Project Engineer	eng.piuuva@gmail.com	071-7479501
Mr. W.A. Saman Bandara	M & E Officer	meo.piuuva@gmail.com	071-8699396
North Central Province			
Dr. W M Palitha Bandara	Deputy Project Director	dpd.piuncp@gmail.com	0714834912
Eng. K.A.D.C. Sampath	Project Engineer	pe.hsep.ncp@gmail.com	0715374840
Mr. S.M. Haleem	M & E Officer	me.hsep.ncp@gmail.com	077 5045100
Sabaragamuwa Province			
Dr. Kapila B.Kannangara	Deputy Project Director	dpd.hsep.piusab@gmail.com	077 7 272870
Eng. G. Ransith Perera	Project Engineer	eng.hsep.piusab@gmail.com	071411 4414
Mrs. K.D.Kusum Kumaranayaka	M & E Officer	m&e.hsep.piusab@gmail.com	0713270195

27. The roles and responsibilities of the Environmental Specialist of the PMU are as follows:

- Assist PMU/PIUs in implementation of the project's Environmental Assessment and Review Framework (EARF) during the construction and operation of health facilities by providing the overall policy and technical direction for environmental safeguards management
- Co-ordinate closely with Deputy Project Directors in the PIUs in planning and managing environmental safeguards and provide necessary technical assistance to facilitate the implementation, management and monitoring of environmental safeguards
- Review and endorse environmental screening reports prepared by the PIU
- Visit and monitor the construction works of the 45 Primary Health Care Institutions (Works Round 1 which IEE already prepared)
- Visit all civil works sites (90 round two sites and the 127 FHCs and other sites) and prepare IEEs as per the guidelines provided in the EARF
- Obtain concurrence from the ADB for IEEs and publicly disclose the documents as per the EARF
- Ensure that EMPs are included in the design, and condition on compliance with EMP is included in the bidding documents as well as the contractor's agreement
- Develop, organize and deliver environmental training programs and workshops for the staff of the PIUs who will serve as safeguards focal points on data collection and

screening, contractors and field supervision staff and other implementing agency officials (responsible for the supervision of maintenance works), as needed, on safeguard requirements during construction

- Provide support to the Health Care Waste Management (HCWM) consultant for preparation of HCWM plans for all health care facilities supported under the project, including provision of necessary technical, logistical and follow- up support
- Obtain clearances from local environmental/other regulatory authorities, where applicable
- Prepare bi-annual monitoring reports to the ADB on the overall environmental performance of the project
- Hold regular review meetings with the environmental focal points of the PIUs and visit project sites to assess environmental planning requirements and to monitor implementation of the EMP by contractors
- Support in the establishment and finalization of the grievance reporting pathways
- Coordinate the process of providing environment related solutions, as a member of the relevant committee of the grievance redress mechanism (GRM) of the project.

1.4 DESCRIPTION OF SUBPROJECTS AND STATUS OF IMPLEMENTATION (PRELIMINARY, DETAILED DESIGN, ON-GOING CONSTRUCTION, COMPLETED, AND/OR O&M STAGE)

Table 1.3: Progress of sub-projects

District	Name of hospital	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) (as of December 31, 2019)	Contract Status (specify if under bidding or contract awarded)	If On-going Construction – %Physical Progress	If On-going Construction – Expected Completion
Central Province					
Kandy	Madulkele DHB	Construction is in progress with few variations, few adjustments of drawing done		25%	2020.08.20
	Galaha DHC	Construction in progress. Sub structure work completed. Column concreting and brick work proceeding		30%	2020.05.20
	Deltota DHB	Construction in progress. OPD Building demolition & brick work is proceeding. Demolition completed up to 75%		30%	2020.04.20
	Dolosbage DHC	Construction in progress. Bulk excavation for site preparation is completed.		30%	2020.08.20
	Hataraliyadda DHC	Construction is in progress with few variations		30%	2020.06.20
Matale	Kimbissa DHC	Detailed designs completed	Revision of estimate for re bidding in progress, and contract will be awarded by April		
	Kalundawa PMCU	Detailed designs completed			
	Madawalaupatha PMCU	Detailed designs completed			
	Galewela DHB	Detailed designs completed			
	Paldeniya PMCU	Detailed designs completed			
Nuwara Eliya	Nanuoya PMCU	Demolition of existing building in progress.		30%	2020.08.19
	Pundaluoya PMCU	Construction in progress. Brick work of existing building completed. Fabrication and erection of roof trusses is in progress		30%	2020.06.19

District	Name of hospital	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) (as of December 31, 2019)	Contract Status (specify if under bidding or contract awarded)	If On-going Construction – %Physical Progress	If On-going Construction – Expected Completion
	Laxapana DHC	Construction in progress. Column concreting up to slab level completed. Form work for slab is in progress.		25%	2020.06.19
	Kotagala DHB	Gazetted as an archeologically heritage site. Work is suspended until obtaining approval from Archeological Department.		25%	2020.04.19
Uva Province					
Badulla	Meegahakiula DHB	Construction in progress. Foundation completed. Retaining wall and Basement structures are completed. First floor work started		35%	07/07/2020
	Koslanda DHB	Detailed designs completed	Contract awarded 20 th December 2019, handing over is scheduled on 7 th January 2020	-	01/11/2020
	Haldumulla DHC	Detailed designs completed		-	01/11/2020
	Kandeketiya DHB	Detailed designs completed		-	01/11/2020
	Etampitiya DHC	Detailed designs completed		-	06/11/2020
Monaragala	Dombagahawela PMCU	Construction in progress. Brick works have been started		25%	07/07/2020
	Deliwa PMCU	Construction in progress. Foundation completed; Columns are ongoing.		25%	07/07/2020
	Thanamalwila DHB	Foundation completed. Basement works (Column footings and foundation work) completed. Columns are ongoing		25%	07/07/2020
	Dambagalla DHC	Construction at roof level, Roof Trusses ongoing		20%	16/07/2020
	Hambegamuwa PMCU	Detailed designs completed	Contract was awarded on 20 th December 2019 Contract	-	01/11/2020

District	Name of hospital	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) (as of December 31, 2019)	Contract Status (specify if under bidding or contract awarded)	If On-going Construction – %Physical Progress	If On-going Construction – Expected Completion
			awarding is scheduled on 7 th January 2020		
North Central Province					
Anuradhapura	Horowpathana DHC	Construction in progress. New construction section and half of the renovation, Floor filling and Brick work in progress		10%	15.08.2020
	Galenbindunuwewa DHB	Construction in progress. Brick work, Columns Casting, Form work of the roof slab - on going		65%	01.09.2020
	Koonwewa PMCU	Detailed designs completed	Not started yet due to delay in handover construction drawing from provincial Engineering Department, construction will be started before 17 th January 2020		15.08.2020
	Negampaha DHC	Detailed designs completed			15.08.2020
	Tittagonewa PMCU	Detailed designs completed			28.08.2020
Polonnaruwa	Ellewewa PMCU	Brick wall construction in progress		35%	15.07.2020
	Sevanapitiya PMCU	Detailed designs completed.	Awaiting NOL from ADB to award contract. Contract will be awarded 29 th January 2020		-
	Damminna PMCU	Brick works of the construction part is in progress. Plastering and Roof works in progress.		40%	15.07.2020
	Ambagaswewa PMCU	Construction in progress. Plastering works, Roof work, Electrical wiring		55%	15.07.2020
Sabaragamuwa Province					
Ratnapura	Endana DHC	Floor Tiling and Ceiling are progress		65%	15.08.2020

District	Name of hospital	Status of Implementation (Preliminary Design/Detailed Design/On-going Construction/Completed/O&M) (as of December 31, 2019)	Contract Status (specify if under bidding or contract awarded)	If On-going Construction – %Physical Progress	If On-going Construction – Expected Completion
	Dodampe PMCU	First floor roof beams completed. Brick Work started at First floor		65%	21.08.2020
	Delwala PMCU	Detailed designs completed	Evaluation process completed and PCC approval to re-bid the 03 projects, sent for concurrence of ADB		
	Ranwala DHC	Detailed designs completed			
	Narissa PMCU	Detailed designs completed			
Kegalla	Hewadivela PMCU	Roofing started; Brick work Completed		65%	21.08.2020
	Minuwangamuwa PMCU	Roof Beam working in progress		45%	21.08.2020
	Uyanwatta PMCU	Access road had to be improved by the community which was finished by 25 th December 2019. Designs will be changed according to available land	-	-	-
	Aranayaka DHA	Roof Beam Completed, roof truss is started, brick work in progress		50%	21.08.2020
	Bolagama PMCU	Roofing started; Brick work Completed		65%	15.08.2020

1.5 OVERALL PROJECT AND SUB-PROJECT PROGRESS AND STATUS

28. A summary of progress of each sub-project is given in Table 1.3.

1.6 APPROACH AND METHODOLOGY FOR ENVIRONMENTAL MONITORING OF THE PROJECT

29. Implementation and monitoring of environmental impacts, so far, has been observed satisfactory. However, reporting/recording of environmental monitoring by the PIUs and contractors is not found regular and not satisfactory. However, regular monitoring and recording of proper implementation of the EMP and monitoring as per the EMoP have to be standardized, and formats for such reporting/recording are given in Annex 2a, 2b and 2c. These forms have been circulated among the PIUs.

30. As described in the IEE, planning, implementation and supervision of environmental safeguards will take place at three levels:

- (i) PMU –The overall responsibility of ensuring compliance with the EMP and monitoring plan will be borne by the main PMU. It will be supported by an Environmental Specialist who will ensure that the EMP is finalized (based on final layouts and designs) and included in the bid documents, provide awareness and training to the PIU and contractor, monitor EMP implementation, co-ordinate with the respective PIUs, attend to grievances and prepare monitoring reports as required.
- (ii) PIUs – The responsibility of day-to-day planning, implementation and supervision of environmental safeguards specific to sub-projects will be borne by the PIUs. An engineer will be appointed as the focal point for coordinating with the environmental specialist of the PMU on monitoring and reporting. Specific formats for monitoring and reporting will be prepared by the environmental specialist and shared with the PIUs.
- (iii) Contractor – Implementation of EMPs will largely be the contractor's responsibility (apart from those provisions relating to technical designs and other specified tasks indicated in the EMPs), and for this, the contractor will nominate a site engineer as the focal person who will be directly responsible for ensuring compliance with the EMP during construction.

31. The following is the methodology will be adopted in collecting and collating environmental monitoring information:

- The Environmental Specialist will provide inputs and guidance to the PMU and PIU staff on requirements of Environmental Monitoring and has developed site inspection report formats /checklists to ensure compliance (See Annex 2a, 2b and 2c)
- At the design stage, all statutory clearances and procedures required for environmental safeguards are identified and obtained. At the construction stage, a regular inspection is carried out by the PIU (through the Project Engineer and Design & Supervision Consultants) to ensure that the environmental safeguard measures are adopted and followed. Corrective measures if necessary, will be highlighted and the contractor will be guided/advised as to what remedial actions are required. Further, Contractors will be required to fill up the environmental compliance checklist that will be provided and submit them back to the PIU (Project Engineer at the PIU) regularly.

- Environmental Specialist of the PMU will oversee the monitoring process in all provinces, and all site inspection reports prepared at the provincial level will be reviewed.

32. The following methodology has been adopted in preparing this report:

- The Environmental Specialist has visited all the PIUs and had detailed discussions with the Project Engineers.
- Joint site visits have been made by the Environmental Specialist to each sub-project to observe the implementation of the EMP and the EMoP at each site, and relevant observations have been recorded.
- The Contractor's representatives have been instructed whenever there are any shortfalls in proper implementation of the EMP/EMoP, and corrective actions were suggested.
- The MOH in each hospital/PMCU has been consulted to get independent feedback of the activities of the contractor.
- The observations have been recorded to comply with the ADB reporting standards.

Note: From the next Monitoring Report onwards, the above sequence of activities will include reviewing the monitoring reports and records provided regularly by the PIUs, the Contractors and the Design & Supervision Consultants

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

Table 2.1: Compliance with National Statutory Environmental Requirements

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
Central Province						
Kandy	Madulkele DHB	Tree cutting permit	Not applicable			
		Street line certificate	Pending information			
		Building permit	Pending information			
		Permit for disposal of debris	Pending information			
		Other (Specify)				
	Galaha DHC	Tree cutting permit	Not applicable			
		Street line certificate	Not applicable			
		Building permit	Pending information			
		Permit for disposal of debris	Not applicable			
		Other (Specify)				
	Deltota DHB	Tree cutting permit	Not applicable			
		Street line certificate	Not applicable			
		Building permit	Not applicable			
		Permit for disposal of debris	Not applicable			
		Other (Specify)				
	Dolosbage DHC	Tree cutting permit	Not applicable			
		Street line certificate	Not applicable			
		Building permit	Pending information			
		Permit for disposal of	Not applicable			

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
		debris				
		Other (Specify)				
	Hataraliyadda DHC	Tree cutting permit	Not applicable			
		Street line certificate	Not applicable			
		Building permit				
		Permit for disposal of debris	Pending information			
		Other (Specify)				
Matale	Kimbissa DHC	Tree cutting permit	Checklists to be obtain from MOICs			
		Street line certificate				
		Building permit				
		Permit for disposal of debris				
		Other (Specify)				
	Kalundawa PMCU	Tree cutting permit				
		Street line certificate				
		Building permit				
		Permit for disposal of debris				
		Other (Specify)				
	Madawalaupatha PMCU	Tree cutting permit				
		Street line certificate				
		Building permit				
		Permit for disposal of debris				
		Other (Specify)				
	Galewela DHB	Tree cutting permit				
		Street line certificate				

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
		Building permit				
		Permit for disposal of debris				
		Other (Specify)				
	Paldeniya PMCU	Tree cutting permit				
		Street line certificate				
		Building permit				
		Permit for disposal of debris				
		Other (Specify)				
Nuwara Eliya	Nanuoya PMCU	Tree cutting permit	Not applicable			
		Street line certificate	Pending information			
		Building permit	Pending information			
		Permit for disposal of debris	Requested to Pradeshiya Sabha			
		Other (Specify)				
	Pundaluoya PMCU	Tree cutting permit	Not applicable			
		Street line certificate	Not Applicable			
		Building permit	Pending information			
		Permit for disposal of debris	Not applicable			
		Other (Specify)				
	Laxapana DHC	Tree cutting permit	Not applicable			
		Street line certificate	Pending information			
		Building permit	Pending information			
		Permit for disposal of debris				
		Other (Specify)				

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
	Kotagala DHB	Tree cutting permit	Not applicable			
		Street line certificate	Not applicable			
		Building permit	Need approval from Archeological Dept.			
		Permit for disposal of debris	Not Applicable			
		Other (Specify)				
North Central Province						
Anuradhapura	Horowpathana DHC	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Galenbindunuwewa DHB	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Koonwewa PMCU	Tree cutting permit	Obtained	No validity periods.	-	Handover to the timber corporation.

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
				Only for approved trees.		
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Negampaha DHC	Tree cutting permit	yes	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Tittagonewa PMCU	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
Polonnaruwa	Ellewewa PMCU	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Sevanapitiya PMCU	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Damminna PMCU	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-
	Ambagaswewa PMCU	Tree cutting permit	N/A	-	-	-
		Street line certificate	Not obtained	-	Request for approval	-
		Building permit	Not obtained	-	Request for approval	-
		Permit for disposal of debris	N/A	-	-	-
		Other (Specify)	-	-	-	-

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
Uva Province						
Badulla	Meegahakiula DHB	Tree cutting permit	Obtained			Contractor to cut down 2 trees
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Koslanda DHB	Tree cutting permit	N/A			
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Haldumulla DHC	Tree cutting permit	N/A			
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Kandeketiya DHB	Tree cutting permit	N/A			1 tree needs to be cut, no need of a permit
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
	Etampitiya DHC	Tree cutting permit	Obtained			2 trees were cut by STC
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
Monaragala	Dombagahawela PMCU	Tree cutting permit	Obtained			2 trees were cut by STC
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Deliwa PMCU	Tree cutting permit	Obtained			2 trees were cut by STC
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Thanamalwila DHB	Tree cutting permit	Obtained			2 trees were cut by Contractor
		Street line certificate	No objection letters have been obtained from the DS/PS			
		Building permit	No objection letters have been obtained from the DS/PS			
		Permit for disposal of debris	N/A			
		Other (Specify)				
	Dambagalla DHC	Tree cutting permit	Obtained			1 tree was cut by STC
		Street line certificate	No objection letters have been obtained from the DS/PS			

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish	
		Building permit				No objection letters have been obtained from the DS/PS	
		Permit for disposal of debris	N/A				
		Other (Specify)					
	Hambegamuwa PMCU	Tree cutting permit	Applied for permit			Applied for 4 trees. Not yet felled.	
		Street line certificate	No objection letters have been obtained from the DS/PS				
		Building permit	No objection letters have been obtained from the DS/PS				
		Permit for disposal of debris	N/A				
		Other (Specify)					
Sabaragamuwa Province							
Ratnapura	Endana DHC	Tree cutting permit	No permits needed				
		Street line certificate					
		Building permit	Not obtained		Request for approval		
		Permit for disposal of debris					
		Other (Specify)					
	Dodampe PMCU	Tree cutting permit	No permits needed				
		Street line certificate					
		Building permit	Not obtained		Request for approval		
		Permit for disposal of debris					
		Other (Specify)					

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
	Delwala PMCU	Tree cutting permit	No permits needed			
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other (Specify)				
	Ranwala DHC	Tree cutting permit	No permits needed			
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other (Specify)				
	Narissa PMCU	Tree cutting permit	No permits needed			
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other (Specify)				
Kegalla	Hewadivela PMCU	Tree cutting permit	No permits needed			
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
		Other (Specify)				
	Minuwangamuwa PMCU	Tree cutting permit	Permit obtained from GS/DS			One Jak tree was felled by STC
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other: NBRO	Recommendations requested			No response from NBRO so far
	Uyanwatta PMCU	Tree cutting permit	No permits needed			
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other (Specify)				
	Bolagama PMCU	Tree cutting permit	No permits required			3 Coconut trees were felled
		Street line certificate				
		Building permit	Not obtained		Request for approval	
		Permit for disposal of soil				
		Other: Transport of soil	Permit obtained from GS			
		Other: NBRO	Recommendations requested			No response from NBRO so far
	Aranayaka DHA	Tree cutting permit	No permits needed			
		Street line certificate				

District	Name of hospital	Statutory Requirements	Status of Compliance (Obtained/Not obtained/)	Validity if obtained	Action Required	Specific Conditions of Clearance, Consent/Permit to Establish
		Building permit	Not obtained		Request for approval	
		Permit for disposal of debris				
		Other (Specify)				

3 COMPLIANCE STATUS WITH ENVIRONMENTAL LOAN COVENANTS

Table 3.1: Compliance with Loan Covenants

No. (List schedule and paragraph number of Loan Agreement)	Covenant	Status of Compliance	Action Required
Schedule 4 – Safeguards: Environment (Paragraph 4)	The Borrower through the Project Executing Agency shall ensure, that the preparation, design, construction, implementation, operation, and decommissioning of the project, and all project facilities comply with: (a) all applicable laws and regulations of the Borrower relating to environment, health and safety. (b) the environmental safeguards. (c) the EARF, and (d) all measures and requirements set forth in the IEE, the relevant EMP and any corrective or preventative actions set forth in a Safeguards Monitoring Report.	All the laws and regulation are being complied with; environmental safeguards as outlined in the IEE and the EMP are complied with. Any corrective and/or corrective actions have been complied with. All other conditions will be complied with.	Regular monitoring of compliance with environmental safeguard issues in all subprojects are needed.
Schedule 4: Safeguards: Involuntary Resettlement and Indigenous Peoples (Paragraph 5)	The Borrower through the Project Executing Agency shall ensure that the Project does not have any indigenous peoples or involuntary settlement impacts all within the meaning of ADB's Safeguard Policy Statement (2009). In the event that the Project complies with the applicable laws and regulations of the Borrower and with ADB's Safeguard Policy Statement.	No indigenous peoples or involuntary settlement impacts in all the sub-projects.	No action is needed for any sub-project.
Schedule 4: Safeguards: Human and Financial Resources to Implement Safeguard Requirements (Paragraph 6)	The Borrower shall make available or cause the Project Executing Agency to make available necessary budgetary and human resources to implement the respective EMP fully.	The Project has appointed an Environmental Specialist attached to the PMU to look after effective implementation of the EMP. The four Project Engineers attached to PIUs regularly monitor the implementation of the EMP.	Proper procedures are in place. Reporting procedures are being regularly updated for effective communication.

Schedule 4: Safeguards: Safeguards - Related Provisions in Bidding Documents and Works Contracts (Paragraph 7)	The Borrower through the Project Executing Agency shall ensure that all the bidding documents and contracts for Works contain provisions that require contractors to: a) comply with the measures and requirements relevant to the contractor set forth in any IEE and 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; and c) provide the Borrower with written notice of any unanticipated environmental, resettlement or indigenous peoples risks or impacts that arise during construction, implementation or operation of the project that were not considered in the respective IEE or EMP.	The Bidding Documents have relevant clauses. The Contractors have the binding obligation to comply with the conditions and measures set forth in the EMP and required budgets have been made available. All other conditions will be complied with.	Regular monitoring of the effectiveness of implementing the EMP is needed. Environmental Monitoring procedures are being inspected regularly.
Schedule 4: Safeguards Safeguard Monitoring and Reporting (Paragraph 8)	The Borrower through the Project Executing Agency shall do the following: a) Submit Semi-annual Safeguards Monitoring Reports to ADB and disclose relevant information from such reports to affected persons promptly upon submission. b) If any unanticipated environmental and /or social risks arise during construction, implementation or operation of the Project that was not considered in the respective IEE or EMP, promptly inform ADB of the occurrence of such risks or impacts, with a detailed description of the event and proposed corrective action plan; and c) report any actual or potential breach of compliance with the measures and requirements set forth in the respective EMP promptly after becoming aware of the breach.	Semi-annual Safeguard Monitoring Reports will be submitted to the ADB, and such reports will be made available to all the stakeholders. Any unanticipated environmental and /or social risks arise, and any actual or potential breach of compliance with the measures and requirements set forth in the respective EMP will be promptly reported.	Strict adherence to the provisions given in Paragraph 8 will be given the highest consideration.

Schedule 4: Safeguards Prohibited List of Investments (Paragraph 9)	The Borrower through the Project Executing Agency shall ensure that no proceeds of Loan or Grant are used to finance any activity included in the list of prohibited investment activities provided in Appendix 5 of SPS.	No funds have been made available to finance prohibited investment activities as outlined in Appendix 5 of the SPS.	No further action is needed.
Schedule 4: Safeguards Labor Standards, Health and Safety (Paragraph 10)	The Borrower through the Project Executing Agency shall ensure that the core labor standards and Borrower's applicable laws are complied with during Project implementation. The Borrower shall include specific provisions in the bidding documents and contracts financed by ADB under the Project requiring that the contractors, among other things: (a) comply with the Borrower's applicable labor laws and regulations and incorporate applicable workplace occupational safety norms. (b) do not use child labor. (c) do not discriminate workers in respect of employment and occupation. (d) do not use forced labor. (e) allow freedom of association and effectively recognize the right to collective bargaining; and (f) disseminate or engage appropriate service providers to disseminate, information on the risks of sexually transmitted diseases, including HIV/AIDS, to the employees of contractors engaged under the Project and to members of the local communities surrounding the Project area, particularly women,	Applicable labor laws and regulations and applicable workplace occupational safety norms will be incorporated and complied with. No child labor and forced labor will be used. Other conditions will be complied with.	Regular monitoring is needed to ensure proper implementation of the conditions set forth in Paragraph 10.

4 COMPLIANCE STATUS WITH THE ENVIRONMENTAL MANAGEMENT PLAN

4.1 IMPLEMENTATION OF THE EMP AND EMOP

33. The contractors are not required to submit site-specific EMP/construction EMPs. The methodology to be adopted for monitoring each sub-project under implementation are described below.

Table 4.1: Implementation Status of the EMP

Project	Design Status (Preliminary Design Stage/Detailed Design Completed)	Final IEE based on Detailed Design				Site-specific EMP (or Construction EMP) approved by Project Director?
		Not yet due (detailed design not yet completed)	Submitted to ADB (Provide Date of Submission)	Disclosed on the project website (Provide Link)	Final IEE provided to Contractor/s	
All sub-projects	Detailed Design Completed	-	Submitted to ADB in July 2018	Disclosed on project website ¹	Yes, for the projects already awarded	Site-specific EMPs or Construction EMPs have not been submitted.

¹ https://www.hsep.lk/images/Downloads/Publications/Initial_Environmental_Examination.pdf

Table 4.2: The role/s of Safeguards Teams including the schedule of on-site verification of reports to be submitted by consultants and contractors

Person/Safeguard Team	Forms to be submitted	To whom the forms to be submitted	Frequency	Reference
5 Contractor	Weekly Environmental Monitoring Form	Project Engineer - PIU	Weekly	Form to be developed (in Sinhala)
6 Project Engineer/ M&E Officer of the PIU and any other Officer of the PIU appointed by the DPD of the PIU	Environmental Monitoring Form & Implementation of the EMP	DPD of the PIU Environmental Specialist	Regularly (at least monthly) at each site visit	Annex 2a, 2b
7 Design and Supervision Consultant/Project Engineer PIU	Environmental Monitoring Form & Detailed Implementation of the EMP	Project Engineer - PIU	Regularly (at least quarterly)	Annex 2c
8 Environmental Specialist	Environmental Monitoring Form & Implementation of the EMP	DPD of the PIU	At each site visit (quarterly)	Annex 2a, 2b

Name/s and contact details of contractor/s' nodal person/s for environmental safeguards.

34. The system has not yet been implemented; however, it is expected that a proper system will be implemented before the end of the first quarter of 2020.

Supporting documents, including signed monthly environmental site inspection reports prepared by consultants and/or contractors.

35. The system has not yet been implemented; however, it is expected that a proper system will be implemented before the end of the first quarter of 2020. The forms as indicated in Table 4.2 will be submitted together with the next Semi-annual Environmental Monitoring Report.

36. All the contracts which have commenced to date are simple small value buildings and have no significant environmental impacts. In compliance with the provisions of the IEE, Environmental Management Plans and Monitoring Plans have been prepared for each subproject and are monitored by the PMU and PIU on a regular basis as explained in earlier sections.

37. As provided in Table 4.2, a summary of site inspection is proposed and a report to be submitted after each site visit.

38. The summary of environmental monitoring activities and effectiveness of implementing the EMP is given in Table 4.3.

Table 4.3: Summary of Environmental Monitoring Activities (for the Reporting Period ending 31 December 2019)

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
Pre-Construction Phase					
Minimize the need to remove large mature trees	Final layout plan and detail designs for each site Adherence to EMP	No of large trees that need felling All sites	Once after designs are completed	Some trees have been felled/already felled No tree replanting has been done yet. Permissions have been obtained to cut trees. Timber (with commercial value) has been disposed of through Timber Corporation. Some timber and debris have to be removed from some of the sites.	The list of trees and a re-planting schedule will be submitted in the next Monitoring Report. Remaining timber and debris have to be removed from sites and disposed of appropriately.
Slope protection and soil erosion control in ground clearing	Final layout plan and detail designs for each site	Visual observation Construction areas of all sites in hilly terrain	Once after designs are completed		Some of the sites need additional designs for slope protection: e.g., Dolosbage, Hataraliyedda, Meegahakiula, Minuwangamuwa, Bolagama, Madulkele, Laxapana, Pundalu Oya Topsoil has been not removed from some sites. Such spoil and
	Adherence to EMP		Once a week	The following have been satisfactorily implemented: Removal of topsoil and vegetation has been satisfactorily done in most of the sites. Soil conservation measures for debris and topsoil is satisfactory in all the sites. Topsoil and debris needs	

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				proper disposal in some sites. There have been no major issues reported due to ground preparation. Collapse of soils banks and/or slope failures have not been noticed for most of the sites. Increased erosion has not been observed. Increased dust in the air for prolonged periods have not been observed, Dust prevention measures are satisfactory. No complaints have been received so far. Disturbances to drainage paths.	excess soil have to be disposed of appropriately or leveled in the same hospital premises, if such excess soil can be used as a fill material. e.g., Pundalu Oya, Hataraliyedda, Dombagahawela Details of how debris and topsoil was disposed have to be recorded for all sites. Precautions have to be taken to prevent collapse of soil banks and slopes in sites such as Hataraliyedda, Dolosbage, Meegahakiula, Minuwangamuwa, Bolagama, Madulkele, Laxapana, Pundalu Oya Photographs of such locations are given in Annex 3 Temporary disturbances to drainage has been observed in some of

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
					the sites. This has to be monitored closely. e.g., Laxapana, Hataraliyedda, Pundalu Oya
Construction Phase					
Minimizing air quality deterioration due to demolition, reconstruction work, stockpiling and movement of heavy vehicles	Adherence to EMP	Visual observation Feedback from hospital users All construction sites	Daily Weekly	<u>Details of dust barriers</u> There are dust/noise barriers constructed in most of the sites. Some of the sites need additional measures in preventing noise/dust propagation. Where there are such barriers, the materials used to construct the barriers are satisfactory, the height of the barriers are sufficient, and they are effective in controlling airborne dust. <u>Details of site activities to maintain air quality</u> It has been observed that the site workers clean the site daily. The workers sprinkle water for dust suppression when needed. This should be done at least twice a dy. Soil heaps are covered	Photographs of barriers which are effective in controlling dust are given in Annex 3: e.g., Galaha, Horowpathana, Thanamalwila. Sites which need dust/noise barriers should erect such barriers without delay. Contractors have been advised accordingly. Contractors of some untidy sites were instructed to clean

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				appropriately in most sites. Stockpiles are stored away from access roads in most of the sites. Stockpiles are stored in the downwind direction to the hospital premises. The trucks transporting material are appropriately covered. Speed limits are imposed for transport vehicles. All the transport vehicles have emission certificates (VEC). There have been no special mitigation measures adopted due to a particular reason.	the site regularly. Soil heaps of some sites were not covered properly. Contractors were advised to cover them appropriately. Stockpiles were stored obstructing the access roads in some sites (e.g., Kotagala, Deltota, Galenbindunuwewa) and the contractors were advised to remove them immediately. Restrictions of speed limits should be actively imposed by the contractor. The contractor should check the validity of VECs for all the transport vehicles regularly.
Controlling noise and vibration levels due to demolition, reconstruction work and movement of heavy	Adherence to EMP	Visual observation All construction sites	Daily Weekly	There have been no noisy machines (subjective judgement with compared to accepted norms) used at the	Implementation of the EMP is satisfactory. NO

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
vehicles				sites. Contractors of most of the sites which are located close to the hospitals, have negotiated with the hospital authorities and avoided any high noise-generating activities during OPD hours. Other than such passive measures, there have been no noise-reduction measures adopted. In all the sites, the working hours are restricted to 08.00–18.00 hrs. IN most of the sites, intermittent noise levels have been likely to exceed CEA Noise Control Regulation levels. However, site works have been progressed satisfactorily by flowing passive methods as discussed above. In all the sites, no nighttime activities are planned. In some of the sites, the high noise-generating activities such as concrete mixing have been done away from hospital premises. This has effectively mitigated high noise reaching the hospital.	additional action is needed. Continuous dialogue and coordination with hospital premised for work scheduling is needed to avoid high noise generating activities during OPD/Clinic hours.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				In some of the hospitals, the patients at risk have been moved away from the construction areas to suitable wards. In most of the sites, high noise generating work have been scheduled to be done non-clinic/non-OPD days. The machinery and vehicles are properly serviced so that there will be no excessive noise generated during operations. There are some buildings at risk from vibration damage.	A crack survey should be conducted at sites such as Dolosbage, Kotagala where there are old structures are located close to the site. For such sites, where there are buildings susceptible to crack damage, details of how mitigation measures will be implemented should be discussed with the contractor.
	Noise and vibration measurements	Noise/Vibration level All construction sites	Twice during construction	No noise/vibration levels have been measured for any of the sites.	Noise/vibration levels have to be measured as implied

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
					in the EMP.
Containment of soil erosion and contamination	Adherence to EMP	Inspection of site for adequacy of soil erosion/contamination control measures, evidence of soil erosion and contamination All construction sites	Weekly	Removal of vegetation on site has been restricted to the bare minimum and strips of vegetation have been left around the disturbed area in all sites. In some sites, when needed, soil conservation bunds have been formed to protect soil erosion. In some of the sites, (e.g., Hataraliyedda), retaining walls are constructed on slopes that are sufficient to bear the surcharge load during and after construction. Excavated earth stockpiles at most of the sites are firmly covered to protect dust storming during winds and to washing off during rains. Degradation of the surrounding environment has not been observed for any of the sites due to soil erosion. In most of the sites, the stockpiles are stored away from roads, drains or water bodies. Surface lead away drains	Retaining walls are needed to prevent collapse of soil banks and slopes in sites such as Hataraliyedda, Dolosbage, Meegahakiula, Minuwangamuwa, Bolagama, Madulkele, Laxapana, Pundalu Oya Photographs of such locations are given in Annex 3 Contractors have been advised to keep the soil heaps covered all times.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				from the construction area are not connected to stormwater drains leading to freshwater bodies in all the sites. Some work has been carried out during the wet season. Contractors have taken precautions to prevent soil erosion in exposed surfaces and soil heaps. Burying or burning of oil and lubricant waste buried were not notices in any of the sites. The contractors have been advised to collect and store spent lubricants, oils and paints in proper oil-cans and dispose for re-use or handed over to the LA. The methods of storing hazardous chemicals such as paint are satisfactory.	For those sites where stockpiles are located close to roads, drains or water bodies, contractors were advised to move them away from such sensitive locations.
Proper disposal of construction waste (non-hazardous)	Adherence to EMP	Inspection of the site for the presence of dumps or waste fires, records of waste removed from the site, inspection of disposal sites All construction sites	Weekly	The contractors have not prepared construction waste disposal plans. Most of the contractors re-use and recycle construction waste. Practice of disposal of construction waste is	Construction waste and debris in some

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				satisfactory in most of the sites. Some contractors have disposed of the construction waste in areas recommended by the Pradheshiya Sabha and the Engineer. It has been noted that most of the construction sites are kept clean and tidy and the construction waste properly collected prior to disposal. In other sites which need improvements, the contractors have been advised accordingly. There are locations in some sites which are potential mosquito breeding grounds. The contractors were strongly advised to clear such areas. There are some sites where solid waste is being burnt on-site. The contractors were advised not to burn waste at site. In some of the sites, excess earth from ground excavations, cut and fill operations can be used on-site either for backfilling,	of the sites, which have not been removed, have to be disposed appropriately. Construction wastes have to be disposed only in areas recommended by the Pradheshiya Sabha and the Engineer. Potential mosquito breeding grounds should be cleared.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				ground leveling, reinstatement of disposal yards or other purposes (e.g., Ambagahawewa, Ellewewa, Dombagahawela).	
Proper disposal of construction waste (hazardous – discarded asbestos cement waste)	Adherence to EMP	Visual observation of the site for the adequacy of measures followed, feedback from contractor team All construction sites	Weekly	There are AC waste been generated during demolition activities in some of the sites. The workers have given training on handling AC sheets. They are provided with masks and gloves to protect themselves. Breaking the AC sheets while dismantling have been avoided or minimized. If the sheets are bolted in place, the bolts have been dampened and cut while avoiding contact with the AC. Lowering the large pieces have been done carefully so as not to break the sheets. In most of the sites, once removed, the sheets have been wetted to minimize asbestos fiber getting air-borne. The removed sheets have been stacked carefully	Collection and proper disposal of AC is needed as detailed in the Asbestos Management Plan that has been prepared as part of the IEE/EMP In some of the sites, where AC sheets have been removed, the sheets need to be wetted to minimize asbestos

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				on-site. They have been stored away from areas that are used by people and covered in thick polythene sheets. So far, no site has disposed of any AC sheets already.	fiber getting air-borne. The removed sheets should be stacked carefully on-site and stored away from areas that are used by people and covered in thick polythene sheets. The AC sheets should be removed to a permanent store either within the premises or in a central location for all AC waste in the district/province. Such sites should be identified without delay.
Control of onsite drainage impairment	Adherence to EMP	Visual observation and inspection of the site for stagnant water blocked drains etc. All construction sites	Weekly	Maintaining cross drainage within site has been satisfactory for many sites during construction. During the last rainy season, the contractors have taken efforts in maintaining proper cross drainage. Stockpiles and debris are safely stored away from known drainage paths; Fine aggregate stockpiles at site are firmly covered to protect dust storming during winds and to wash off during rains.	Control of onsite drainage impairment should be continuously monitored during the rainy periods.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				Drainage impairment was observed for some sites, when blockage of drainage was unavoidable. The contractors have been advised to have alternative paths created to facilitate stormwater flows from the site to outside. The lead away drains that collect water from the internal drainage system of the PHC facility are kept clean and free from any constriction debris. The contractors have been advised to keep the construction site checked daily (after wet weather) for any signs of water stagnation. They have been advised to take necessary action to alleviate the issue.	
Containment of construction wastewater discharge	Adherence to EMP	Visual observation and inspection of the site for the open discharge of wastewater and pollution All construction sites	Weekly	Where applicable, the sites have washing areas for construction equipment delineated within hospital premises at least 25-30 feet away from groundwater wells. Most of the sites do not discharge wastewater from the construction site directly	Containment of construction wastewater discharge has to be monitored continuously.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				into roadside drains. Contractors of some sites were advised not to discharge wastewater into roadside drains. They were advised to first direct the wastewater into a pit to allow siltation and percolation before connecting to a lead away drain.	
Pollution from labor camps	Adherence to EMP	Visual observation and inspection of the labor camps, feedback from construction workers All construction sites	Weekly	In almost all the sites, the local laborers have been recruited as much as possible to minimize social consequences of migrant labor and to provide livelihood opportunities to the local community. Only a few sites had labor camps sited on-site. No issues have been reported or found related to locations of labor camps. When the labour camps are located on-site, the consent from the hospital management have been obtained. In all the sites, the labor camps are provided with adequate sanitation facilities, with wastewater collection and disposal appropriately attended to. No discharge of wastewater and disposal of domestic waste from worker camps into water sources	Pollution from labor camps has to be monitored continuously.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				were noticed. Toilets located close to groundwater wells where drinking water intakes are located were not noted. Some sites collect and hand over domestic solid waste regularly at a site approved by the local council or given to them where garbage collection tractors. However, most of the sites bury garbage within the hospital premises or burn it. Sites where solid waste is being burnt on-site were advised not to burn waste at site. For all the sites, labor camps have access to good supply of drinking water. Non-insulated electrical cables were not noted in site electrification work. Standard precautions for fire protection have not been taken in most of the sites. This needs attention.	
Occupational health and safety issues and complaints registered in the GRM	Adherence to EMP	Visual inspection of the site, adequacy of signage and delineation barriers, number of accidents and complaints registered in the GRM All construction sites	Weekly	In most of the sites, proper safety and warning signages are in place for all digging and installing work items? In most of the sites, warning signage are not needed to be displayed during the	Occupational health and safety issues should be regularly monitored. GRM should be given highest priority.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				nighttime. However, in many sites, lighting have been provided during the nighttime within the construction sites. In some of the sites, the notices/warning signs are displayed in the local language. In sites where signage are posted, the notices/warning signs are displayed at appropriate locations. In some sites, workers are provided with Personal Protective Equipment (PPEs), tools and protective clothing. In some sites, laborers do not wear (or amply with the requirement) PPEs. It is not clear whether the contractors enforce that safe working methods are applied all times. It is not a standard practice to carry out training programs for the workers. However, unskilled workers are supposed to get on-the-job training. Having regular toolbox meetings on occupational health and safety for workers conducted are not commonly	The workers should be trained to wear PPEs, and the requirement should be enforced by the contractors. The contractors should be advised to carry out proper training programs on occupational health and safety, and to conduct regular toolbox meetings. The condition of the labour camps and occupational health and safety conditions of workers have to be closely monitored.

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				practiced, other than a few sites in Kandy District. Not all the contractors have established procedures for receiving, documenting and addressing complaints. Contractors are advised to setup a proper procedures to receive such complaints. In all sites, the contractors provide notices to hospital staff and users about the schedule of construction activities.	
Public health and Safety	Adherence to EMP	Visual inspection of the site, adequacy of signage and delineation barriers, number of accidents and complaints registered in the GRM	Weekly	In all the sites, the construction sites are delineated from the rest of the hospital to the extent practicable. In most of the sites, these partitions satisfactorily cut off the construction area from the rest of the hospital physically. At some sites where regular access paths are obstructed by the site activities, safe pedestrian pathways to the hospital premises have been provided. Such temporary access paths have been noted as safe for vulnerable persons and wheelchair access.	

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
				In all the sites, there are delineation devices such as cones, lights, tubular markers, barricades tapes, warning signposts, etc. erected to inform hospital users about work zones. In all the sites, warning signs are erected to inform public of dangers and to keep them away from such hazards and they are appropriately placed.	
Operational Phase					
Proper management of hazardous health care waste generated from each facility	Development of a site-specific HCWM plan	Progress with regard to • Waste audit within the HCF • Waste classification and segregation • Regional strategy for waste disposal • Training plan for hospital staff • Equipment list for safe handling and disposal • Budget for implementation of selected measures • Implementation schedule All sites	Monthly	Applicable only after construction of buildings are over.	-

Impact (List from IEE)	Parameters to be monitored	Method of Monitoring and Location	Frequency	Status of Monitoring	Corrective Action Required or not
Proper treatment of hospital sewerage and wastewater	Inclusion of wastewater treatment plant in project scope	All DH A and B	Monthly	Applicable only after construction of buildings are over.	-

4.2 GRIEVANCE REDRESS MECHANISM

39. Grievance Redress Committees have been formed in all four provinces. Grievance redress mechanism has been established as per the EARF to address project-related issues/complaints.

40. Proposed mechanism will have three tiers at different levels linked to the project's implementation hierarchy.

(i) **Tier 1:** Project Implementation Unit at the provincial level will be the first level to resolve grievances. The Deputy Project Director (DPD) will be the focal point for grievance redressal. a. On receiving a grievance, the PIU will (i) Enter the grievance in the Complaints register, (ii) open a grievance file for the specific case and (iii) close the grievance filling a closure sheet that will be signed by the complainant agreeing that the concern has been satisfactorily resolved.

b. Grievances will be attended to within a week based on site investigations and consultations with relevant parties. All grievances will be properly recorded with personal details unless otherwise requested.

(ii) **Tier 2:** The DPD/PIU in consultation with the Environmental Specialist of the PMU will activate the second level for those grievances that are not resolved at tier 1. This tier will consist of a Grievance Redress Committee (GRC), the composition of which will be decided by the PD. The environmental specialist of the PMU will be responsible for processing and placing all papers before the GRC. a. The GRC must be appointed and established before commencement of site works. The written grievance will be forwarded to the GRC who will call a hearing, if necessary, with the complainant. The process will facilitate resolution through mediation. The GRC will meet as required and direct the field level with clear instructions and responsibilities to attend to the agreed actions within two weeks of meeting. The contractor will sit in the GRC as an observer.

(iii) **Tier 3:** If a grievance cannot be resolved directly by the first two tiers, the affected person can seek alternative redress through other means such as Government's judicial system.

41. It is important to ensure that the project's mechanism for grievance redressal is widely disseminated to the public and other affected stakeholders through (i) public consultation meetings (ii) media advertisement (iii) locally erected notices and other means.

42. Annex 2d provides a list which can be used for recording grievances related to environmental matters. Any reported matter (to be filled by the GRC) has to be forwarded to the Project Engineer of the PIU and the Environmental Specialist for taking appropriate corrective actions.

(a) Complaints Received during the Reporting Period

43. No grievances have been recorded in the four districts during the reporting period.

(b) Records as per GRM in the approved IEE

44. Nothing to report

(c) Safeguards team member/s involved in the GRM process

45. This will be reported in the next Monitoring Report, as some of the members were appointed in December 2019 and their appointments have to be confirmed.

(d) Minutes of meetings

46. Nothing to report.

5 OVERALL COMPLIANCE WITH CEMP/ EMP

No.	Sub-Project Name	EMP/ CEMP Part of Contract Documents (Y/N)	CEMP/ EMP Being Implemented (Y/N)	Status of Implementation (Excellent/ Satisfactory/ Partially Satisfactory/ Below Satisfactory)	Action Proposed and Additional Measures Required
1	All the sub-projects	All the Bidding /Contract Documents include EMPs and EMoPs	Being implemented	Satisfactory	A proper reporting mechanism has been proposed (Refer to Table 4.2). Monitoring of impacts and mitigation would be effective once the reporting procedure has been streamlined. Timely action can be taken whenever a weakness/shortcoming is found in respect of compliance to EMP and appropriate mitigation. The contractor can be guided and advised to adopt mitigation measures within a reasonable period of time.

6 MONITORING OF ENVIRONMENTAL IMPACTS ON PROJECT SURROUNDINGS

47. All the sub-projects are not large-scale projects. The scale and magnitude of construction activities and the resultant environmental impacts have been observed to be not significant, provided that the recommended mitigation measures are adopted effectively. The impacts are limited to the locality of construction and it was noted that such impacts have not spread over a wider extend beyond the project area.

48. The basis of monitoring will be mostly visual observations, as indicated in Table 4.3.

49. Only noise and vibration levels will be measured up to two times during the construction period using instruments. However, no such monitoring reports have been obtained by any of the contractors.

7 CONCLUSIONS AND RECOMMENDATIONS

50. The Project Engineers of PIU together with the Contractors had been monitoring the compliance status of proposed mitigation measures in the EMP and the implementation of the Environmental Monitoring Plan during every site visit and corrective actions were proposed to be taken where necessary. The Environmental Specialist who was appointed in November 2019 also visited the all the sub-projects during the months of November and December and recorded the process of implementation of the EMP and Monitoring plans. The status of implementation of the EMP and the Monitoring Plan and actions proposed to be taken have been summarized in the monitoring tables (Table 4.3).

51. Compliance status of some of the environmental parameters were found to be below the expected levels and further preventive measures were recommended to be taken (as provided in the EMP and based on the experience of the Environmental Specialist and the Project Engineers). These included such parameters as enforcing and ensuring workers to be equipped with PPEs during construction works and placing proper safety signs boards and providing barricades in vulnerable locations to establish safety of workers and the community. Slope protection works also need particular attention, as no retaining walls or slope protection works are proposed for some sites. Blocking of access roads by unloading construction material, open burning of solid waste, not having proper waste management plans are some of the other concerns. The contractors of all the sites have good rapport with the hospital authorities, and certain construction activities such as high noise generating activities have been carried out during pre-agreed times, mostly after OPD/Clinic hours. Most of the sites has erected noise and sound barriers, however, some sites have no such barriers at all.

52. Asbestos management and implementation of the asbestos management plan needs to be taken up without delay. It is proposed that each PIU will identify a location for safe disposal of asbestos or at least a central location for storage of asbestos safely until its final safe disposal.

53. Environment Specialist together with the Project Engineer of the PIUs have taken corrective measures by providing necessary guidance and advices to the Site Supervisors to ensure the environmental safeguard including occupational and public safety. Environment Specialist has also discussed outstanding issues during the monthly progress review meeting

by highlighting importance of taking migratory measures and preventive measures through the action plan adopted by the contractors.

54. The Environmental Specialist has noted that continuous (and regular) monitoring of the implementation of the EMP and the Monitoring Plan has not been regularized as yet. Therefore, a new set of forms have been developed, and has already been circulated among the persons who are responsible for filling out and keeping records of environmental monitoring. The forms included the following forms (Annex 2a, 2b and 2c):

- Weekly Environmental Monitoring Form to be filled by the Contractor of each site
- Environmental Monitoring Form & Implementation of the EMP to be filled by the PIU
- Environmental Monitoring Form & Detailed Implementation of the EMP to be filled by the Design Supervision consultants
- Environmental Monitoring Form & Implementation of the EMP to be filled by the Environmental Specialist
- Obtaining regular feedback from the Grievance Redress Committee (Annex 2d)

55. It is expected that the procedure for environmental monitoring and monitoring of effective implementation of the EMP will be properly established during the first quarter of 2020.

55. The following need special attention during the first two quarters of 2020:

- Proper implementation of the Asbestos Management Plan
- Drafting a replanting programme and its implementation
- Identification of the need and obtaining necessary and relevant environmental approval/permits/consent etc. from relevant authorities.

The progress of implementation of the above process will be reported in the next quarterly monitoring report.

ANNEX 1

- List of Project sites

Annex 1: LIST OF PMCUs and DHs FOR CIVIL WORKS DEVELOPMENT*

SN	Province	District	Hospital Name	Hospital Type
1	Central	Nuwara Eliya	<i>Nanuoya</i>	<i>PMCU</i>
2			<i>Pundaluoya</i>	<i>PMCU</i>
3			<i>Lindula</i>	<i>DHB</i>
4			<i>Laxapana</i>	<i>DHC</i>
5			<i>Kotagala</i>	<i>DHB</i>
6			Rupaha	PMCU
7			Hatton	PMCU
8			Gonapitiya	DHC
9			Mandarannuwara	DHC
10			Ketabula / Kotimale	PMCU
11			Agarapatana	DHC
12			Munwatta	PMCU
13			Bogawanthalawa	DHB
14			Hanguranketha	DHC
15			Hangarapitiya	PMCU
16		Matale	<i>Kimbissa / Sigiriya</i>	<i>DHC</i>
17			<i>Kalundawa</i>	<i>PMCU</i>
18			<i>Madawalaulpatha</i>	<i>PMCU</i>
19			<i>Galewela</i>	<i>DHB</i>
20			<i>Paldeniya</i>	<i>PMCU</i>
21			Pallepola	PMCU
22			Elkaduwa	PMCU
23			Maraka	DHC
24			Handungamuwa	DHC

SN	Province	District	Hospital Name	Hospital Type
25			Madipola	DHB
26			Leliambe / Rehabilitation	DHC
27			Nalanda	DHC
28			Dullewa	PMCU
29			Gurubebila	PMCU
30			Ukuwela	PMCU
31		Kandy	Madulkele	DHB
32			Galaha	DHC
33			Deltota	DHB
34			Dolosbage	DHC
35			Hataraliyadda	DHC
36			Ambagahapelessa	DHC
37			Kurunduwatta	DHC
38			Katugasthota	DHA
39			Minipe	DHC
40			Suduhumpola	PMCU
41			Marassana	DHB
42			Morahena	DHC
43			Digana-Rajawella	PMCU
44	Hasalaka		DHC	
45	Kolongoda		DHC	
46	North Central	Polonnaruwa	Ellewewa	PMCU
47			Sevanapitiya	PMCU
48			Aralaganwila	DHB

SN	Province	District	Hospital Name	Hospital Type
49			Damminna	PMCU
50			Ambagaswewa	PMCU
51			Meeguswewa	PMCU
52			Singhapura	PMCU
53			Aselapura	PMCU
54			Madagama	PMCU
55			Parakrama Samudraya	PMCU
56			Weheragala	PMCU
57			Attanakadawala	DHC
58			Mannampitiya	DHB
59			Jayanthipura	DHC
60			Wijepura	PMCU
61		Anuradhapura	Horowpathana	DHC
62			Galenbindunuwewa	DHB
63			Koonwewa	PMCU
64			Negampaha	DHC
65			Tittagonewa	PMCU
66			Ethakada	PMCU
67			Katiyawa	PMCU
68			Labunoruwa	PMCU
69			Andiyagala	DHC
70			Mahasenpura	PMCU
71			Habarana	DHC

SN	Province	District	Hospital Name	Hospital Type
72			Wahalkada	PMCU
73			Mahawilachchiya	DHC
74			Ratmalgahawewa	DHC
75			Poonewa	PMCU
76	Uva	Moneragala	Hambegamuwa	PMCU
77			Thanamalwila	DHB
78			Deliwa	PMCU
79			Dambagalle	DHC
80			Dobmagahawela	PMCU
81			Kotagama	PMCU
82			Pitakumbura	DHC
83			Okkampitiya	DHC
84			Rathmalgahaella	PMCU
85			Nannapurawa	PMCU
86			Bakinigahawela	PMCU
87			Madagama	DHB
88			Buddama	PMCU
89			Kotiyagala	PMCU
90			Dewathura	PMCU
91		Badulla	Koslada	DHB
92			Haldumulla	DHC
93			Meegahakiula	DHB
94			Kandeketiya	DHB
95			Ettampitiya	DHC

SN	Province	District	Hospital Name	Hospital Type
96			Metigahatenna	DHB
97			Udaweriya (EH)	DHC
98			Wewegama	DHC
99			Kirkills	DHC
100			Haputale	DHB
101			Spring Valley (EH)(Baddagama)	DHC
102			Uva Paranagama	DHB
103			Galauda	DHC
104			Passara	DHA
105			Lunugala	DHB
106	Sabaragamuwa	Ratnapura	Delwala	PMCU
107			Endana	DHC
108			Ranwala	DHC
109			Narissa	PMCU
110			Dodampe	PMCU
111			Pothupitiya	DHB
112			Kolonna	DHA
113			Paragala	PMCU
114			Kirimetithenna	PMCU
115			Galpaya	PMCU
116			Pinawala	PMCU
117			Rajgaha	PMCU
118			Belihuloya	DHC
119			Kaltota	DHA

SN	Province	District	Hospital Name	Hospital Type
120			Marathenna(EH)	DHB
121		Kegalle	<i>Hewadivela</i>	<i>PMCU</i>
122			<i>Minuwangamuwa</i>	<i>PMCU</i>
123			<i>Uyanwatta</i>	<i>PMCU</i>
124			<i>Aranayaka</i>	<i>DHA</i>
125			<i>Bolagama</i>	<i>PMCU</i>
126			Kitulgala	DHA
127			Hinguralakanda	DHC
128			Dedugala	DHC
129			Pothdenikanda	PMCU
130			Gantuna	DHC
131			Maliboda (ERH)	DHC
132			Dothaloya (ERH)	DHC
133			Boralankada	PMCU
134			Basnagala	PMCU
135			Udugoda	DHA

* PMCUS and DHs that are in ***bold, italics*** are in the first round of facilities that will be renovated.

ANNEX 2

- Forms proposed for Environmental Monitoring and Implementation of the EMP

Annex 2a.IMPLEMENTATION OF THE ENVIRONMENTAL MANAGEMENT PLAN – To be filled by the PIU/Design Supervision Consultant (at least monthly during after each site visit/ Environmental Specialist (after each site visit)

PIU:

Name of Hospital and District:

Round:

Monitoring Period (Week/Month/Year):

Impact/mitigation	Status of Mitigation and Effectiveness with respect to the EMP (indicate the dates)	Corrective action suggested (if any), including deadlines, conditions, responsible parties	Resolution Status of Corrective action (resolved/outstanding actions required) (indicate the dates)
Slope protection and soil erosion control in ground clearing			
Minimizing air quality deterioration due to demolition, reconstruction work, stockpiling and movement of heavy vehicles			
Controlling noise and vibration levels due to demolition, reconstruction work and movement of heavy vehicles			
Containment of soil			

Impact/mitigation	Status of Mitigation and Effectiveness with respect to the EMP (indicate the dates)	Corrective action suggested (if any), including deadlines, conditions, responsible parties	Resolution Status of Corrective action (resolved/outstanding actions required) (indicate the dates)
erosion and contamination			
Proper disposal of construction waste (non-hazardous)			
Proper disposal of construction waste (hazardous – discarded asbestos cement waste)			
Control of onsite drainage impairment			
Containment of construction wastewater discharge			
Pollution from labor camps			
Occupational health and safety issues and complaints registered in the GRM			

Any other issues observed at site:

Prepared by:

Date:

Annex 2b. IMPLEMENTATION OF THE ENVIRONMENTAL MONITORING PLAN

– To be filled by the PIU/Design Supervision Consultant (at least monthly during after each site visit/
Environmental Specialist (after each site visit)

PIU:

Name of Hospital and District:

Round:

Monitoring Period (Week/Month/Year):

Impact/mitigation	Parameters to be monitored	Measurement	Frequency	<u>Status of Monitoring:</u> - Satisfactory - Partially satisfactory: Improvements needed - Not satisfactory (Mention any Standards/ Regulations that are referred to)	Remedial measures suggested for better monitoring (if status of monitoring is not or partially satisfactory)
Slope protection and soil erosion control in ground clearing	Final layout plan and detail designs for each site	Check design layouts	Once after designs are completed		
	Adherence to EMP	Visual observation	Once a week		
Minimizing air quality deterioration due to demolition, reconstruction work, stockpiling and	Confirm if any dust was noted to escape the site boundaries and identify dust suppression techniques followed for	Visual observation Feedback from hospital users	Weekly		

Impact/mitigation	Parameters to be monitored	Measurement	Frequency	<u>Status of Monitoring:</u> - Satisfactory - Partially satisfactory: Improvements needed - Not satisfactory (Mention any Standards/ Regulations that are referred to)	Remedial measures suggested for better monitoring (if status of monitoring is not or partially satisfactory)
movement of heavy vehicles	site/s.				
Controlling noise and vibration levels due to demolition, reconstruction work and movement of heavy vehicles	Adherence to EMP	Visual observation	Weekly		
	Noise and vibration measurements	Noise/Vibration level	Twice during construction		
Containment of soil erosion and contamination	Identify type of erosion and sediment control measures installed on site/s, condition of erosion and sediment control measures including if these were intact following heavy rain	Inspection of site for adequacy of soil erosion/contamination control measures, evidence of soil erosion and contamination	Weekly		
Proper disposal of construction waste (non-	Identify designated areas for	Inspection of the site for presence of dumps or	Weekly		

Impact/mitigation	Parameters to be monitored	Measurement	Frequency	<u>Status of Monitoring:</u> - Satisfactory - Partially satisfactory: Improvements needed - Not satisfactory (Mention any Standards/ Regulations that are referred to)	Remedial measures suggested for better monitoring (if status of monitoring is not or partially satisfactory)
hazardous)	concrete works, chemical storage, construction materials, and refueling. Attach photographs of each area.	waste fires, records of waste removed from site, inspection of disposal sites			
Proper disposal of construction waste (hazardous and discarded asbestos cement waste)	Identify any chemical stored on site and provide information on storage condition. Attach photograph.	Visual observation of the site for adequacy of measures followed, feedback from contractor team	Weekly		
Proper dismantling, storage and disposal of asbestos cement waste	Method of removal and storage	Visual observation of the site for adequacy of measures followed, feedback from contractor team			
Control of on-site drainage impairment	Adherence to EMP	Visual observation and inspection of site for stagnant water, blocked	Weekly		

Impact/mitigation	Parameters to be monitored	Measurement	Frequency	Status of Monitoring: - Satisfactory - Partially satisfactory: Improvements needed - Not satisfactory (Mention any Standards/ Regulations that are referred to)	Remedial measures suggested for better monitoring (if status of monitoring is not or partially satisfactory)
		drains etc.			
Containment of construction wastewater discharge	Identify muddy water was escaping site boundaries or muddy tracks were seen on adjacent canals/roads	Visual observation and inspection of site for open discharge of wastewater and pollution	Weekly		
Pollution from labor camps	Adherence to EMP	Visual observation and inspection of the labor camps, feedback from construction workers	Weekly		
Occupational health and safety issues and complaints registered in the GRM	Adherence to EMP	Visual inspection of the site, adequacy of signage and delineation barriers, number of accidents and complaints registered in the GRM	Weekly		
Public health	Provide	Visual inspection			

Impact/mitigation	Parameters to be monitored	Measurement	Frequency	Status of Monitoring: - Satisfactory - Partially satisfactory: Improvements needed - Not satisfactory (Mention any Standards/ Regulations that are referred to)	Remedial measures suggested for better monitoring (if status of monitoring is not or partially satisfactory)
and Safety	information on barricades, signages, and on-site boards. Provide photographs.	of Site and surroundings. Checking if there are any activities being undertaken out of working hours and how that is being managed.			

Any other relevant details:

Name

Designation

Signature

SAMPLE ENVIRONMENTAL SITE INSPECTION REPORT

DISTRICT
HOSPITAL

NAME: _____ DATE: _____
TITLE: _____

WEATHER CONDITION:

SITE CONDITION (Provide details)

Satisfactory _____ Unsatisfactory _ Partially satisfactory _____

Inspection

Water pollution	Waste Minimization
Wastewater collection and discharge	Reuse and Recycling
Air Quality	Dust and Litter Control
Noise and vibration	Trees and Vegetation
Hazardous Substances	Nuisance

Site conditions acceptable

Yes

☐☐

INCIDENTS (Provide details – attach additional sheets, if needed)

Resolved Unresolved

INCIDENT 1

Nature of incident:

Intervention Steps to Resolve and conditions

Method of Monitoring

INCIDENT 2

Nature of incident:

Intervention Steps to Resolve and conditions

Method of Monitoring

Signature _____

Annex 2c. ENVIRONMENTAL MONITORING PLAN & ADHERENCE TO EMP
(to be filled by the PIU/Design Supervision Consultants quarterly)

PIU:

Name of Hospital and District:

Round:

Monitoring Period (Month/Year):

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
Pre-construction Stage				
(i) Minimize the need to remove large mature trees	Final layout plan and detail designs for each site Details of trees need felling/felled (Name of species and number of trees, DBH)	• Number of large trees that need felling • Identification of tree species • Photographs	Once designs are completed	(i) Any trees to be felled/already felled: Yes/No <u>If Yes, provide details of tree felling (Annex 1a)</u> (ii) Permission obtained to cut trees: Yes/No (iii) Was timber disposed of through Timber Corporation? Yes/No (iv) Has the debris removed from the site? Yes/No (v) Was debris disposed of satisfactory? Yes/No <u>If No to (ii), (iii) and/or (iv), provide details of tree felling (Annex 1b)</u> (vi) Has any tree replanting done? Yes/No <u>If Yes, provide details of tree replanting (Annex 1c)</u>

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
(ii) Clearing of vegetation and ground preparation Slope protection and control of soil erosion	Final layout plan and detail designs for each site	Check design layouts Visual observation	Once after designs are completed Once a week	Are the following satisfactorily implemented: (i) Removal of topsoil and vegetation: Yes/No (ii) Soil conservation measures for debris and topsoil: Yes/No (iii) Disposal of topsoil and debris: Yes/No <u>If Yes to (iii), provide details of how debris and topsoil was disposed of (Annex 2a)</u> <u>If No to (i), (ii) and/or (iii), provide details of the issue and how it was rectified. (Annex 2b)</u> Have there been any of the following due to ground preparation? (i) Collapse of soils banks and/or slope failures: Yes/No (ii) Increased erosion: Yes/No (iii) Increased dust in the air: Yes/No (iv) Disturbances to drainage paths: Yes/No <u>If Yes to (i), (ii), (iii) and/or (iv), provide details of how the issue was rectified (Annex 2b)</u>
(iii) Minimizing air quality deterioration due to demolition, reconstruction work, stockpiling and	Adherence to EMP	Visual observation Feedback from hospital users	Weekly Weekly	Details of dust barriers (i) Are there any dust/noise barriers constructed? Yes/No (ii) Are the materials used to construct the barrier

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
movement of heavy vehicles				satisfactory? Yes/No (iii) Is the height of the barrier sufficient? Yes/No (iv) Is the barrier effective in controlling airborne dust? Yes/No <u>If No to any of the above, provide details (Annex 3a).</u> (Provide photographs of the dust barriers) Details of site activities to maintain air quality (i) Do the site workers clean the site daily? Yes/No (ii) Do the workers sprinkle water for dust suppression at least twice a day? Yes/No (iii) Are the soil heaps covered appropriately? Yes/No (iv) Are the stockpiles stored away from access roads? Yes/No (v) Are the stockpiles stored in the downwind direction to the hospital premises? Yes/No (vi) Are the trucks transporting material appropriately covered? Yes/No (vii) Are speed limits imposed for transport vehicles? Yes/No (viii) Do all the transport vehicles have emission certificates (VEC)? Yes/No <u>If No to any of the above, provide details of how the issues were rectified (Annex 3b).</u>

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				(Provide photographs, where available) Is there any special mitigation measured to be adopted due to a particular reason? Yes/No If yes, provide details in Annex 3b.
(iv) Controlling noise and vibration levels due to demolition, reconstruction work and movement of heavy vehicles	Adherence to EMP	Auditory observation (noise) Visual observation of cracks (vibration)	Weekly	(i) Are there any noisy machines (subjective judgement with compared to accepted norms) used at the site? Yes/No (ii) If Yes, are there any noise-reduction measures adopted? Yes/No (iii) Are the working hours restricted to 08.00–18.00 hrs? Yes/No (iv) Is the noise likely to exceed CEA Noise Control Regulation levels? Yes/No <u>If yes, provide details of how the noise will be abated – Annex 4a.</u> (v) Are there any nighttime activities planned? Yes/No <u>(If yes, provide reasons for why nighttime activities are needed, and how noise mitigation will be done - Annex 4b)</u> (vi) Can the high noise-generating activities such as concrete mixing be done away from hospital premises? Yes/No If Yes, has this effectively mitigated high noise? Yes/No (vii) Can the patients at risk be moved towards

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				located away from the construction area? Yes/No/ Not Applicable If Yes, has such patients moved away to suitable wards? Yes/No (viii) Have the high noise generating work scheduled to be done non-clinic/non-OPD days? Yes/No (ix) Are there any buildings at risk from vibration damage? Yes/No If yes, has a crack survey conducted? Yes/No <u>If there are buildings susceptible to crack damage, provide details of how mitigation measures will be implemented (Annex 4c).</u> (x) Are the machinery and vehicles properly serviced so that there will be no excessive noise generated during operations? Yes/No
	Noise and vibration measurements	Noise/Vibration level	Twice during construction	Submit Reports obtained from an accredited agency.
		Feedback from hospital users	Weekly	Refer Grievances Recording Sheets
(v) Containment of soil erosion and contamination	Adherence to EMP	Inspection of site for adequacy of soil erosion/ contamination control measures, evidence of soil erosion and contamination	Weekly	(i) Has the removal of vegetation on site restricted to the bare minimum and a strip of vegetation (at least 1 m buffer) left around the disturbed area. Yes/No/Not Applicable (ii) If needed, have soil conservation bunds formed to protect soil erosion? Yes/No/ Not Applicable

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				(iii) Have retaining walls constructed on slopes that are sufficient to bear the surcharge load during and after construction? Yes/No/ Not Applicable (iv) Has the excavated earth stockpiles at site firmly covered to protect dust storming during winds and to wash off during rains which cause degradation of the surrounding environment? Yes/No (v) Are the stockpiles stored away from roads, drains or water bodies? Yes/No (vi) Are the surface lead away drains from the construction area connected to stormwater drains leading to freshwater bodies? Yes/No (vii) Are the work being carried out during the dry season? Yes/No (viii) Do oil and lubricant waste buried or burnt in the site? Yes/No (ix) Are they collected and stored in proper oil-cans and disposed for re-use or LA approved designated sites? Yes/No (x) Is the method of storing hazardous chemicals such as paint shall satisfactory? Yes/No <u>If No, for any of the above provide details of how the issue has been rectified (Annex 5)</u>
(vi) Proper disposal of construction waste (non-hazardous)	Adherence to EMP	Inspection of the site for the presence of dumps or waste fires,	Weekly	(i) Has the contractor prepared a construction waste disposal plan? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
		records of waste removed from the site, an inspection of disposal sites		(ii) Does the contractor re-use and recycle construction waste? Yes/No (iii) Is the contractor's practice of disposal of construction waste appropriate? Yes/No (iv) Is construction waste disposed of only in areas recommended by the Pradheshiya Sabha and the Engineer? Yes/No (v) Is the construction site kept clean and tidy and the construction waste properly collected prior to disposal? Yes/No <u>If No, for any of the above provide details of how the issue has been rectified (Annex 6)</u> (vi) Is there are any locations which are potential mosquito breeding grounds? Yes/No (vii) Is any solid waste being burnt on-site? Yes/No <u>If Yes, for any of the above provide details of how the issue has been rectified (Annex 6)</u> (viii) Can the excess earth from ground excavations, cut and fill operations be used on-site as much as possible either for backfilling, ground levelling, reinstatement of disposal yards or other? Yes/No <u>If Yes, for any of the above provide details (Annex 6)</u>
(vii) Proper disposal of construction waste	Adherence to EMP	Visual observation of the site for the	Weekly	(i) Are there any AC waste been generated during demolition activities? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
(hazardous – discarded asbestos cement waste)		adequacy of measures followed, feedback from contractor team		<u>If yes, answer the following.</u> (A separate Asbestos Management Plan should be prepared – Annex 7) (ii) Have the workers given training on handling AC sheets? Yes/No (iii) Are they provided with masks and gloves to protect themselves? Yes/No (iv) Has breaking the AC sheets while dismantling avoided or minimized? Yes/No (v) If the sheets are bolted in place, have the bolts be dampened and cut while avoiding contact with the AC? Yes/No (vi) Is the practice lowering the large pieces done carefully so as not to break the sheets? Yes/No (vii) Once removed, are the sheets wetted to minimize asbestos fibre getting air-borne? Yes/No (viii) Have the removed sheets stacked carefully on-site? Yes/No (ix) Are they stored away from areas that are used by people? Yes/No (x) Are they covered in thick polythene sheets? Yes/No (xi) Can the sheets be removed to a permanent store either within the premises or in a central location for all AC waste in the district/province? Yes/No (xii) Have such sites identified as yet? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				<u>If the AC sheets have been already disposed of:</u> (xiii) Have they transported carefully with the sheets covered in thick polythene or tarpaulin? Yes/No (xiv) Where have they been transported to? Yes/No
(viii) Control of onsite drainage impairment	Adherence to EMP	Visual observation and inspection of the site for stagnant water blocked drains etc.	Weekly	(i) Has cross drainage maintained within site always during construction? Yes/No (ii) Are stockpiles and debris safely stored away from known drainage paths? Yes/No (iii) Are all fine aggregate stockpiles at site firmly covered to protect dust storming during winds and to wash off during rains? Yes/No (iv) If blockage of drainage is unavoidable, have any alternative paths created to facilitate stormwater flows from the site to outside? Yes/No/ Not Applicable (v) Are the lead away drains that collect water from the internal drainage system of the PHC facility kept clean and free from any constriction debris? Yes/No/ Not Applicable (vi) Is construction site checked daily (after wet weather) for any signs of water stagnation? Yes/No/ Not Applicable (vii) If there is water stagnation, will there any action taken to alleviate the issue? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				<u>If No, for any of the above provide details of how the issue has been rectified (Annex 8)</u>
(ix) Containment of construction wastewater discharge	Adherence to EMP	Visual observation and inspection of the site for the open discharge of wastewater and pollution	Weekly	(i) Has the washing area for construction equipment delineated within hospital premises at least 25-30 feet away from groundwater wells? Yes/No/ Not Applicable (ii) Is there a strip of turf maintained in between the washing bay and the periphery? Yes/No/ Not Applicable (iii) Is the wastewater from the construction site directly discharged into roadside drains? Yes/No (iv) If yes, does it first directed to a pit to allow siltation and percolation before connecting to a lead away drain? Yes/No <u>If No, for any of the above provide details of how the issue has been rectified (Annex 9)</u>
(x) Setting up of labour camps	Adherence to EMP	Visual observation and inspection of the labour camps, feedback from construction workers	Weekly	(i) Has local labour been recruited as much as possible to minimize social consequences of migrant labour and to provide livelihood opportunities to the local community? Yes/No (ii) Has the labour camp sited appropriately? Yes/No (iii) If the labour camp is within the hospital premises, has the consent from the hospital management obtained? Yes/No (iv) Have the labour camps provided with adequate

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				sanitation facilities? Yes/No (v) Is the wastewater collection and disposal appropriate? Yes/No (vi) Is there any discharge of wastewater and disposal of domestic waste from worker camps into water sources? Yes/No (vii) Are the toilets of the camp located at least 25-30 meters away from groundwater wells where drinking water intakes are located? Yes/No (viii) Does the domestic solid waste collected and disposed of daily at a site approved by the local council or given to them where garbage collection services exist? Yes/No (ix) Is there a good supply of drinking water provided to the labour camps? Yes/No <u>If No, provide details of how the issue to be solved (Annex 10).</u> (x) Is burying and burning domestic waste in the project site practised? Yes/No (xi) Are all the electrified cables used for camp electrification work firmly insulated? Yes/No (xii) Have the standard precautions for fire protection taken? Yes/No
(xi) Occupational health and safety issues and complaints registered	Adherence to EMP	Visual inspection of the site, adequacy of signage and	Weekly	(i) Are proper safety and warning signages are in place for all digging and installing work items? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
in the GRM		delineation barriers, number of accidents and complaints registered in the GRM		(ii) Are the warning signages adopted to be displayed during the during nighttime? Yes/No (iii) Are the notices/warning signs displayed in the local language? Yes/No (iv) Are the notices/warning signs displayed at appropriate locations? Yes/No (v) Have the workers provided with Personal Protective Equipment (PPEs), tools and protective clothing? Yes/No (vi) Does the contractor enforce that safe working method are applied all times? Yes/No (vii) Has the contractor carried out any suitable training programs for the workers? Yes/No (viii) Are there any regular toolbox meetings on occupational health and safety for workers conducted? Yes/No (ix) Are all electrified cables use for power tools, camp wiring, and any other electrification work firmly insulated? Yes/No (x) Are the machinery and equipment that could easily electrocute kept safely within site and always under the supervision of an experienced worker? Yes/No (xi) Are the workers used for the handling of machinery, equipment and material processing plants experienced and well-trained? Yes/No

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				(xii) Has the contractor established procedures for receiving, documenting and addressing complaints? Yes/No (xiii) Does the contractor provide notices to hospital staff and users about the schedule of construction activities? Yes/No (xiv) Does the contractor make the hospital staff aware of any dangers/risks and hazards prior to carrying out of such work? Yes/No
(xii)Public health and Safety	Adherence to EMP	Visual inspection of the site, adequacy of signage and delineation barriers, number of accidents and complaints registered in the GRM	Weekly	(i) Is the construction site delineated from the rest of the hospital? Yes/No (ii) Does this partition satisfactorily cut off the construction area from the rest of the hospital physically? Yes/No (iii) Are the regular access paths obstructed by the site activities? Yes/No If yes, has a safe pedestrian pathway to the hospital premises provided? Yes/No (iv) Is this temporary access path safe for vulnerable persons and wheelchair access? Yes/No (v) Are there any delineation devices such as cones, lights, tubular markers, barricades tapes, warning signposts, etc. erected to inform hospital users about work zones? Yes/No (vi) (vii) Have any warning signs erected to inform public of dangers and to keep them away from such

Impact/mitigation	Parameters to be monitored	Measurement/Method of Monitoring	Frequency	Status (Mention any Standards/Regulations that are referred to & attach lab reports, if any)
				hazards? Yes/No (viii) Are they appropriately placed? Yes/No (ix) Are they comprehensible to people of any background and age? Yes/No

Any other parameters observed at the site:

Prepared by:

Date:

Annex 1

Annex 1a: Details of trees to be felled/already felled:

- Name of species and number of trees:
- DBH (mm):

Annex 1b: Details of removal of trees

- If the timber was not disposed of through Timber Corporation, how was it disposed?
- Why was the debris disposed of was not satisfactory?

Annex 1c: Details of replanting of trees:

- Location of replanting:
- Names of species and number of trees:
- Height of the plant:
- Is the tree maintained well?

Annex 2

Annex 2a: Details of topsoil/debris disposal

Provide details of how debris and topsoil was disposed

Annex 2b: Issues due to ground preparation and how the issues were rectified

Provide details of the issue and how it was rectified.

Annex 3

Annex 3a: Details of dust barriers

(Provide photographs of the dust barriers)

Annex 3b: Details of site activities to maintain air quality

List any issues encountered in controlling dust and how the issues were rectified.

(Provide photographs, where available)

Is there any special mitigation measured to be adopted due to a particular reason?

Annex 4

Annex 4a: How high noise levels will be abated

If the noise is likely to exceed CEA Noise Control Regulation levels, provide details of the suggested method of noise abatement.

Annex 4a: If nighttime construction is planned:

Provide reasons for why nighttime activities are needed, and how noise mitigation will be done

Annex 4b: Cracking of buildings due to vibration

Details of mitigation measured where there are buildings susceptible to crack damage.

Annex 5: Containment of soil erosion and contamination

Provide details of how the issue has been rectified in controlling soil erosion and contamination.

Annex 6: Proper collection and disposal of solid waste (non-hazardous)

Provide details of how the issue has been rectified with proper waste management practices.

Annex 7: Asbestos Management Plan

Annex 8: Control of onsite drainage impairment

Provide details of how the issue has been rectified in controlling onsite drainage.

Annex 9: Control of construction wastewater discharge

Provide details of how the issues have been rectified in controlling construction wastewater discharge

Annex 9: Issues related to labour camps

Provide details of how the issues related to labour camps have been rectified.

ANNEX 2d

Format for recording Grievances

Annex 2d. RECORDS OF GRIEVANCES RELATED TO ENVIRONMENTAL MATTERS – To be filled by the PIU (Monthly)

PIU:

Name of Hospital and District:

Round:

Reporting Period (Week/Month/Year):

Name of Respondent:

Date:

	Response and Details of the issue	Action taken to resolve the issue	Method to ensure issues is resolved
Confirm if any dust was noted to escape the site boundaries			
Confirm if high levels of noise was noted to escape the site boundaries			
Confirm if muddy water was escaping site boundaries or muddy tracks were seen on adjacent roads.			
Were there any issues with erosion and sediment control measures installed on site/s?			
Were there any issues with the designated areas for concrete works, stockpiles, construction material storage, and equipment yards?			
Were there any construction wastewater on nearby roads/drains?			
Were there any notice of chemical spills (including			

	Response and Details of the issue	Action taken to resolve the issue	Method to ensure issues is resolved
cement slurry)?			
Were there any issues with management of stockpiles (construction materials, excavated soils, spoils, etc.).?			
Were there any issues with the management of solid and liquid wastes on-site?			
Are the safety measures adopted on-site adequate? e.g., barricades, signages, and on-site boards.			
Any notice of workers not wearing PPEs or engaging in dangerous practices while at work?			
Confirm if there are any activities being undertaken out of working hours/during busy hours that disturb the activities of the hospital			
Are the safety measures taken to ensure public health and safety adequate?			
Were there any complaints related to public safety from the patients and other users of the hospital?			
Were there any complaints related to labourers and/or labour camps from the patients, other users of the hospital and neighbors?			

Any other complaints?

Records of other grievances

1. Provide information on number, nature, and resolution of complaints received during reporting period.
2. Details of any meeting conducted during the period should be recorded. Provide meeting minutes and photographs.

Respondents	Response and Details of the issue	Action taken to resolve the issue	Method to ensure issues is resolved
Contractor			
Patients and other hospital users			
Neighbourhood			
Others			

Annex 2e. Form to be filled by the Environmental Specialist/Project Engineer during each site visit

**Health Sector Enhancement Project
Project Management Unit**

Date of visit:

Name of HCF:

Location:

EMP COMPLIANCE							
	Mitigation measures from the EMP	Progress Level (Activity Implementation Status)		Level of Execution (Environmental Rank)		Remarks - During this Field Visit	
		%	Color	Rank	Color	Photo Taken*	Observations
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Color code	Level of execution
	Good
	Moderate
	Poor

ANNEX 3

- Photographs taken during field visits

Kandy District



Deltota DHB: Asbestos and demolition debris at site



Deltota DHB: Sand being piled obstructing the entrance to the hospital



Dolosbage DHC: Unstable slopes, which need retaining walls; The slopes are unstable and water seeps through the cut slopes



Dolosbage DHC: Excavated soil being stored at site without cover and obstructing drainage paths



Galaha DHC: Open burning of solid waste by labourers on-site



Galaha DHC: Noise/dust barriers erected around the site



Hataraliyedda DHC: AC sheets being stored under cover, but without proper cover with polyethene



Hataraliyedda DHC: Proper retaining wall being constructed under shade provided for laborers



Madulkele DHB: The slope toward the hospital end needs a retaining wall. Slopes are not stable.



Madulkele DHB: The slope towards Galagedara Road is very unstable and needs a retaining wall



Madulkele DHB: Construction debris being dumped along the slopes towards the Galagedara Road



Madulkele DHB: There is no proper access road to the site

Nuwara Eliya District



Kotagala DHB: Sand being unloaded obstructing the access road to the hospital



Kotagala DHB: Construction has to be carried out inside a confined space of the hospital



Laxapana DHC: Unstable slopes in the site which need stabilization and strengthening



Laxapana DHC: Construction has to be carried out with minimum disturbance to the hospital



Nanu Oya PMCU: Demolition of the existing building being carried out



Nanu Oya MPCU: Construction has to be carried out next to a busy road



Pundalu Oya PMCU: AC Sheets stacks in the site in an unsafe manner



Pundalu Oya PMCU: AC Sheets stacks in the site in an unsafe manner



Pundalu Oya PMCU: Dust barriers erected around the site



Pundalu Oya: Slopes that need stabilization prior to construction of the new building

Anuradhapura District



Galenbindunuwewa DHB: Sediment laden soil being washed away from the site



Galenbindunuwewa DHB: Properly sized septic tanks/soakage pits being constructed



Horowpathana DHC: Safety measures are inadequate inside the labour huts



Horowpathana DHC: Construction site properly separated from the hospital



Horowpathana DHC: Water being collected within the site premises



Koonwewa PMCU: Sand has been unloaded on the access road to the hospital



Koonwewa PMCU: Construction has commenced without erecting any dust/noise barriers



Negampaha DHC: Tree logs and stumps at site; water puddles in the site premises



Negampaha DHC: Dust/Noise barriers needed to cover the ETU of the hospital



Negampaha DHC: Proper demarcation of boundaries to prevent unauthorized access



Tittagonewa PMCU: Tree stumps being dumped beside the road



Tittagonewa PMCU: Existing drains are blocked. No dust/noise barriers

Polonnaruwa District



Ambagahawewa PMCU: Water logging areas within the site which need filling



Ambagahawewa PMCU: The site needs extensive cleaning free of any debris



Damminna PMCU: Construction debris that needs removal from site



Damminna PMCU: AC sheets improperly stored at site



Ellewewa PMCU: Trees felled are lying within the site; water puddles within the site



Ellewewa PMCU: Septic tanks should be located well-away from this shallow well

Badulla District



Meegahakiula DHB: Slopes that need to be stabilized and strengthened



Meegahakiula DHB: Dust and noise barriers are not effective in controlling dust/noise



Meegahakiula DHB: Slopes being strengthened by constructing retaining walls



Meegahakiula DHB: Location for the septic tanks and the soakage pit away from wells

Monaragala District



Thanamalwila DHB: The site has been separated by erecting noise/dust barriers



Thanamalwila DHB: Sediment laden water being discharged to road-side drains



Deliwa PMCU: No proper dust/noise barriers erected in the site.



Deliwa PMCU: Proper access road has to be built to the site



Dambagalla PMCU: Proper demarcation of the site boundaries; Sand being unloaded obstructing the access road. No dust barriers.



Dambagalla PMCU: Proper demarcation of the site boundaries. No dust barriers.



Dombagahawela PMCU: Dust barriers are not properly erected. Slopes of the access road needs strengthening.



Dombagahawela PMCU: Excavated soil needs to be levelled in the backyard of the hospital.