

# Environmental Monitoring Report

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

## SRI: Mahaweli Water Security Investment Program – Tranche 1

North Western Canal Project (NWPCP)

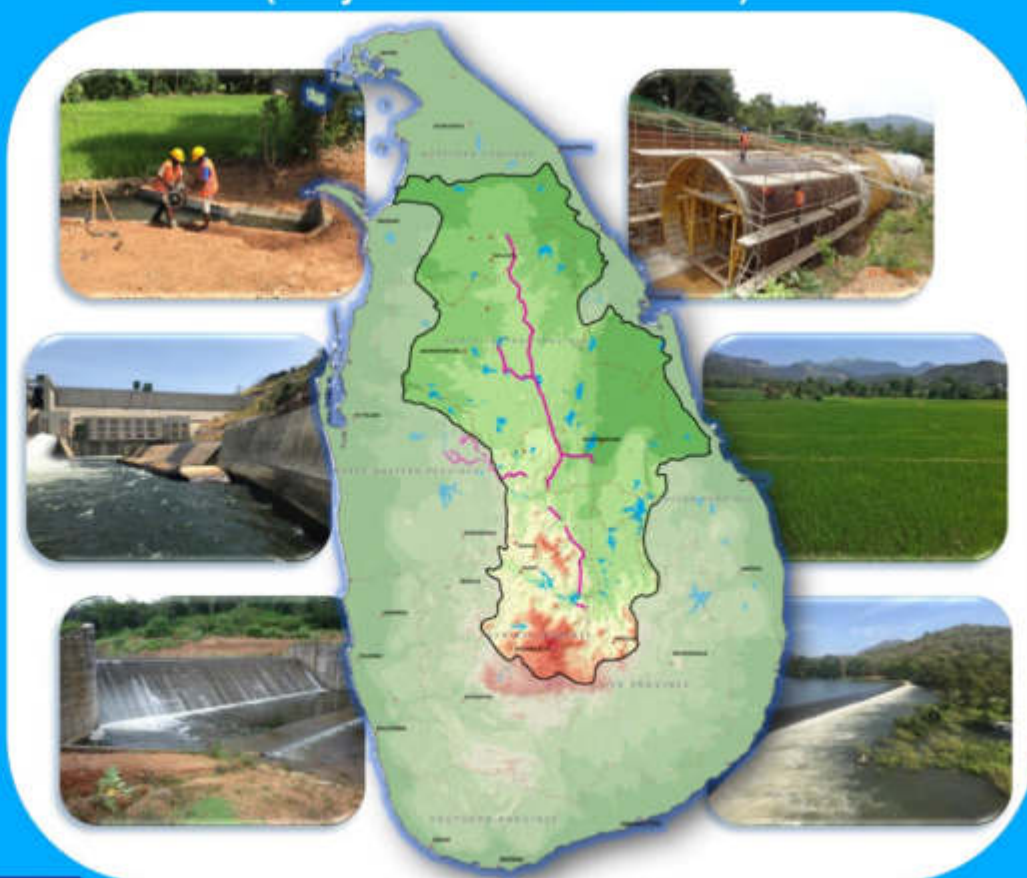
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# Mahaweli Water Security Investment Program

## Semi Annual Environmental Monitoring Report (SAEMR) No. 06 for North Western Province Canal Project (NWPCP) (July to December 2019)



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



January 2020

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**SAEMR No. 06 for NWPCP**

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Client                Ministry of Mahaweli Agriculture Irrigation and Rural Development

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# 1 INTRODUCTION

## 1.1 Scope of the Report

1. This Semi Annual Environmental Monitoring Report (SAEMR) No. 6 is prepared to update the progress of North Western Province Canal Project (NWPCP) with respect to environmental safeguard aspects for the period of July to December 2019, which fulfils Asian Development Bank (ADB) requirement to submit a SAEMR to ADB and Central Environmental Authority (CEA) for the “Category A” projects as documented in FAM<sup>1</sup> and EARF<sup>2</sup>.

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

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

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

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

## 1.2 Current status of NWPCP

5. In two contracts NWPCP-NCB-1 and NWPCP-ICB-2 construction work started under MWSIP Tranche 1; the bid evaluation is in progress for the NWPCP-ICB-1 construction package. The key details related to above 3 construction packages are summarized in **Table 1-1**.

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

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

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



**Table 1-1: Details of the NWPCP contract packages as of December 2019**

Package	NWPCP-NCB-1	NWPCP-ICB-2	NWPCP-ICB-1
<b>Work Description</b>	Improvements to Wemedilla Left Bank Main Canal up to Nabadagahawatta (0 km to 5+250 km) and Construction of New Sluice and Tail Canal (0 km to 0+600 km)	Construction of Main Canal from Nabadagahawatta to Mahakithula Reservoir Inlet Tunnel (from 5+250 km to 22+500 km)	Construction of Mahakithula Inlet Tunnel, Mahakithula and Mahakirula Reservoirs, Feeder Canal from Mahakithula to Mahakirula Reservoir
<b>Environmental Significance of the Project Area</b>	<ul style="list-style-type: none"> <li>The proposed works under NCB-1 package are mainly associated with an existing canal, and hence not any protected or ecological sensitive areas to be affected (refer <b>Figure 1-1</b>).</li> <li>However, the social environmental significance is fairly high since the canal is going through rural residential areas with some land acquisition impacts.</li> <li>The new sluice and tail canal at the Wemedilla reservoir have some environmental significance due to the naturalized ecosystems in the surrounding areas.</li> </ul>	The two sections, 18+400 km to 19+500 km and 20+700 km to 22+300 km, fall within the Kahalle-Pallekele wildlife sanctuary under the jurisdiction of Fauna and Flora Protection Ordinance (FFPO). The land ownership is with the FD as the canal trace traverses through Kahalla-Pallekele Forest reserve (refer <b>Figure 1-2</b> ).	The entire project area falls within the Kahalle-Pallekele wildlife sanctuary under the jurisdiction of Fauna and Flora Protection Ordinance (FFPO).
<b>Package No.</b>	MMDE/MWSIP/ADB/NWPCP/NCB-1/3267-3268-SRI/NCB/2016/001	MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003	MMDE/MWSIP/ADB/NWPCP/ICB-1/3267-3268-SRI/ICB/2017/005
<b>Commencement Date</b>	29 Sept 2016	01 November 2018	
<b>Completion Date</b>	Original completion date was 29 December 2018, and the updated completion date was 30 May 2019. Both dates were not met by the progress.	05 May 2021	Retendered; financial evaluation completed and Financial Bid Evaluation Report (FBER) was sent to ADB for review. FBER was modified incorporating ADB comments and sent to ADB
<b>Name of the Contractor</b>	M/S NEM Construction (Pvt) Ltd.	M/S China State Construction Engineering Corporation Limited	
<b>Address</b>	No. 629, Baseline Road, Colombo 9	No. 15, Sanlihe Road, Haidian District, Beijing, China	
<b>Contract Amount LKR (incl. VAT)</b>	926,113,863.39	7,226,621,051.00	

6. In addition to the above 3 construction packages to be implemented under the Tranche 1 of the MWSIP, the progress of the NWPCP packages scheduled under Tranche 3 of the MWSIP is summarized in **Table 1-2**.

**Table 1-2: Status of Bidding Document Preparation of NWPCP packages under Tranche 3**

Package	Description	Progress
NWPCP-ICB-3	Construction of Feeder Canals to Kaduruwewa (20.9 km), Pothuwila (2.0 km), Upper Mediyawa (19.9 km) and Yapahuwa (8.9 km)	<ul style="list-style-type: none"> <li>Updated EMP completed, and submitted to PMU along with the bidding documents</li> </ul>
NWPCP-ICB-4	Construction of North Western Province Canal from Dambulu Oya to Wemedilla LBMC (0+000 km to 8+575 km) and Diversion Structure	<ul style="list-style-type: none"> <li>Link canal from Dambulla Oya to NWPC is replaced by Bowatenna Tunnel 2 (BT2)</li> <li>Geotechnical investigations in progress, tender designs in progress</li> <li>Preparation of Basic Information Questionnaire (BIQ) in progress to proceed with the EIA process through CEA</li> </ul>

7. The following sections will provide a brief description of the physical progress of each contract package mobilized under NWPCP as per end of December 2019.

### 1.2.1 NWPCP-NCB-1

8. The Contractor for package NWPCP-NCB-1 has remobilized in November 2019, following substantial completion of land acquisition issues. The finalization of these issues is expected during Q2 2020. This should allow completion of the works in Q4 2020.

9. Cumulative physical progress by December 2019 is about 72% of the total work to be done. 90% of concrete work is completed at the new Sluice structure; gates are being installed. 81% canal lining works in Wemedilla canal are done. 45% of the canal structures are completed by end December 2019.

### 1.2.2 NWPCP-ICB-2

10. First year of the contract period was completed on 01 November 2019. Construction progress by end December 2019 is recorded as nearly 9% of the total physical progress as per the original construction program. Construction progress is lagging behind due to insufficient Right of Way (RoW) provided in some sections, due to lack of resources from the Contractor CSCEC, and due to delay in handing over of the site at some canal sections by Employer.

## 2 CHANGES IN PROJECT SCOPE AND ADJUSTED SAFEGUARD MEASURES

### 2.1 NWPCP-NCB-1

11. There are no changes identified for the project scope during the monitoring period related to NWPCP-NCB-1 package.

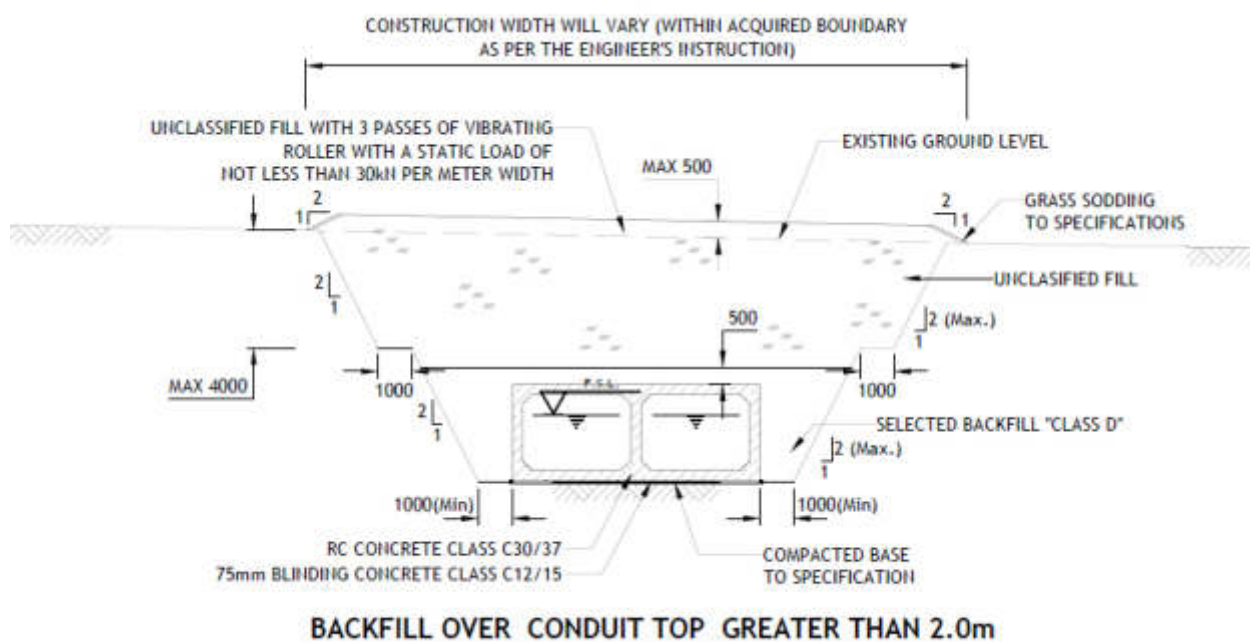
### 2.2 NWPCP-ICB-2

#### 2.2.1 Additional land (for RoW) from 18+503 km to 19+650 km in DWC/FD protected areas

12. Additional land (for RoW) requirement beyond the approved areas was stated by CSCEC through letters reference CSCEC-ICB2-PMDSC-466-2019 and CSCEC-ICB2-PMDSC-503-2019 dated 08 and 28 August 2019.

13. Additional land requirement arises from 18+503 km to 19+650 km either side of the original RoW. The length is 1,147 m. The canal type is cut and cover, twin rectangular conduit with an expected excavation quantity of approximately 135,000 m<sup>3</sup>, which includes 68,000 m<sup>3</sup> earth and 64,000 m<sup>3</sup> rock.

14. Typical cross section of the canal with the requirement of backfilling over 2 m is shown in **Figure 2-1**. The requirement of expanding RoW has arisen due to an increase of excavation depth due to topographic reality encountered. Hence the cut line at the surface is expanded, requiring additional RoW for the machinery and vehicle movements.

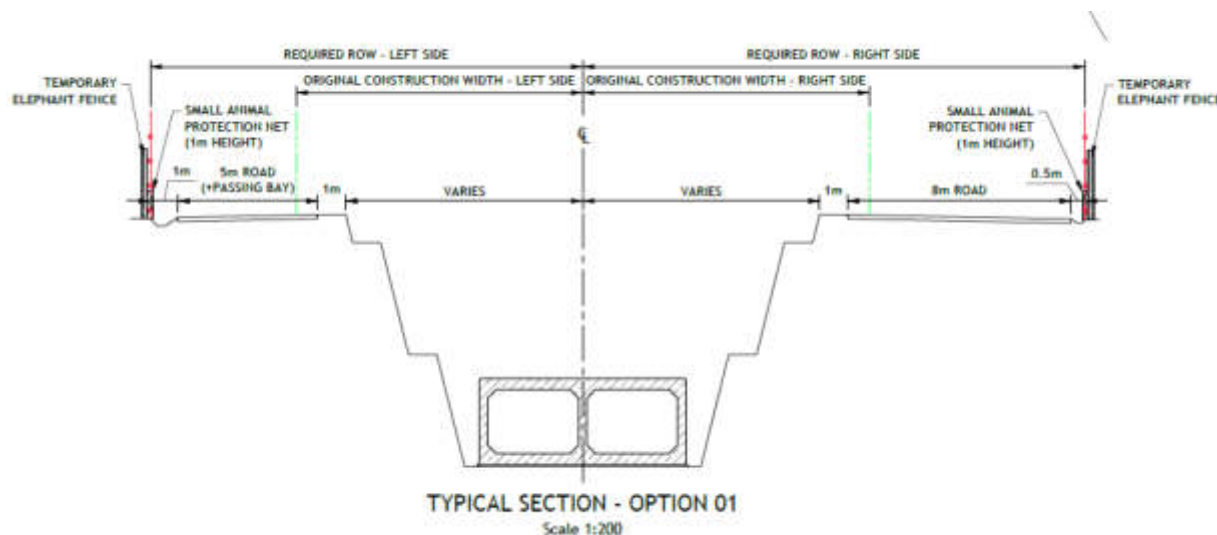


**Figure 2-1: Typical cross section of the canal**

15. Hence it is proposed to provide required RoW, which varies along the canal chainage depending on the ground profile and the requirement of providing a passing-bay increasing the width by 2 m in every 160 m for a 20 m stretch only at the left-hand side (LHS). The typical section of the proposal is shown in **Figure 2-2**.

16. The project area is shown in **Figure 2-3**. The land ownership of the proposed additional land areas (from 18+503 km to 19+650 km) are under the Korakahagolla Forest Reserve that comes under the Matale District Forest Officer (DFO). The entire area is managed by the Department of Wildlife Conservation (DWC) as the area falls within the Kahalla–Pallekele Wildlife sanctuary area gazetted under the Fauna and Flora Protection ordinance (FFPO).

17. As per the tree enumeration carried out by the FD, additional 54 trees with a girth over 30 cm were identified to be removed along this additional RoW.



**Figure 2-2: Typical section of additional RoW requirement Proposal**

18. The additional RoW was outside the scope of EIA, and hence a Technical Note was prepared as an addendum to the EIA. It was submitted to the relevant project approving agencies of DWC and FD, copy to CEA in Sept 2019. DWC issued their concurrences through letter reference WL/16/2/2/280 dated 09 October 2019. It was confirmed by the Employer (PMU) on 23 January 2020 in writing. FD issued their conditional approval to remove 54 trees through State Timber Corporation (STC) on 31 December 2019 (refer **Annex 1**).

19. The Contractor was informed through the Resident Engineer (RE) to comply with following key aspects prior to initiate work inside the wildlife area:

- (i) Updated method statement (MS) for the approved area (for Option 1) including key environmental safeguard management aspects to be followed during the construction stage (i.e. fencing layouts and related site preparatory requirements, maximum excavation length of the canal, site specific drainage management plans with chainages, working hours, noise, vibration, dust controlling plans, displaying instructions to the workers, waste and spoil management plan, site restoration etc.).
- (ii) Fencing to be done under the supervision of DWC, arranged through PIU, and related information sharing (i.e. details of personnel, equipment, machinery to be taken into the wildlife area; provide identity tags for all personnel, vehicles, machinery using inside DWC areas etc.).
- (iii) Share regular monitoring & maintenance plans of the fences during the construction phase, prepared by the Contractor.
- (iv) Specific training and awareness plans for the workers working inside DWC area, prepared by Contractor.

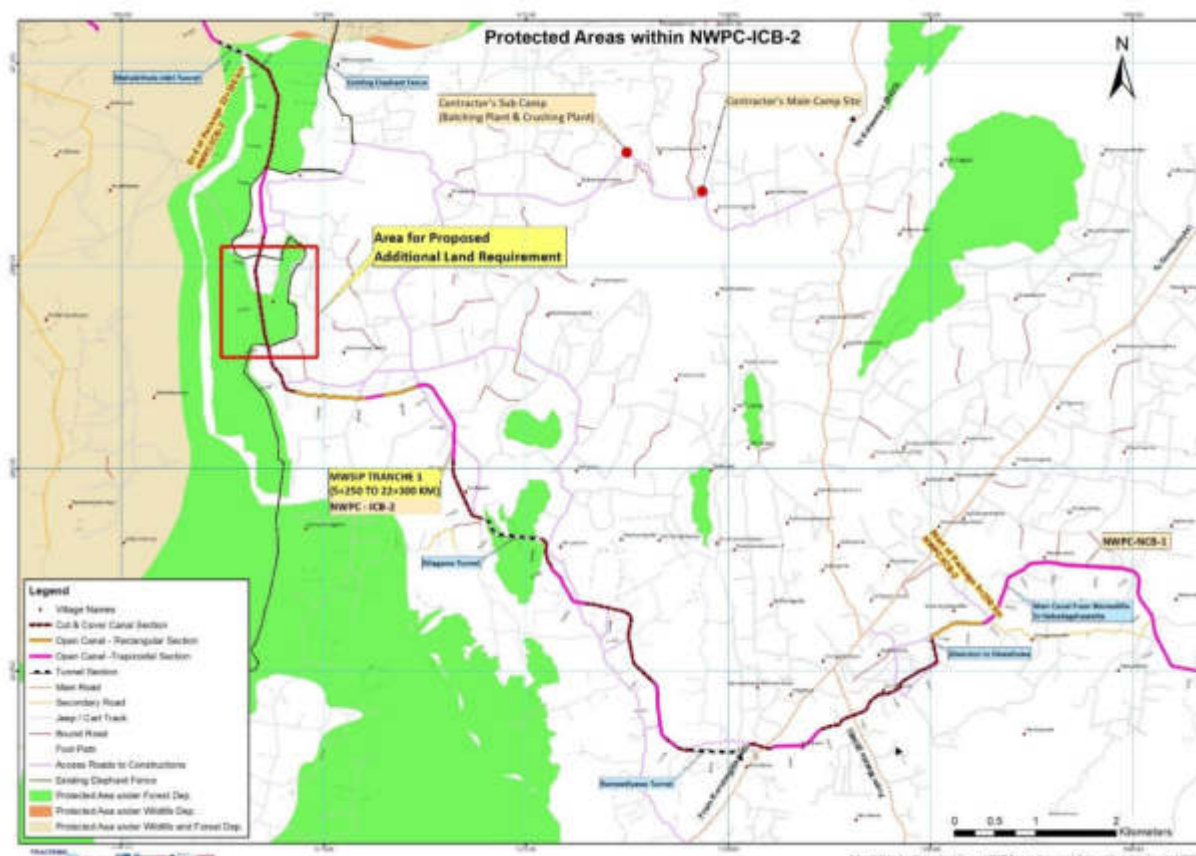


Figure 2-3: Map of NWPCP-ICB-2 Project area

## 2.2.2 Construction of new water hole at Korakahagolla-Pibidunagama

20. The canal construction at 18+500 km will disturb the wildlife movements as there is a water whole constructed by DWC for the use of elephants and other wildlife connected with a natural stream. As a mitigation measure, discussions took place with the Engineer and DWC to agree on alternative until the construction is completed. The Engineer submitted an alternative design proposal for an additional water hole through letter NWPCP/PIU/PD/ENV/DWC/2019/04 dated 11 September 2019.

21. The proposal to construct an additional water hole away from the construction area closer to the previous pond was approved by the DWC through letter WL/6/1/1/321 dated 08 November 2019. A view of the existing pond and the present access road bisecting the ponding area is shown in **Figure 2-4**.



Figure 2-4: Existing water hole and bisecting access road



### 3 ENVIRONMENTAL MONITORING FINDINGS

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

#### 3.1 Periodical Monitoring Records

##### 3.1.1 NWPC-NCB-1

23. The Contractor (NEM) remobilized in November 2019. Since there was no major work at the site, no significant environmental issues were noted during the monitoring period.

24. The best practices adopted by the Contractor during the monitoring period after his remobilization are shown in **Figure 3-1**.



**Figure 3-1: Best practices adopted by the Contractor during the monitoring period**

25. The general issues notified during the periodical monitoring visits by the EMS-PMDSC, and observed at the monthly joint environmental meeting and site visits are as follows:

- As per the meeting held on 20 November 2019 (review of contract progress and implementation issues NWPCP-NCB-1 and -ICB-2 contract packages) the Project Manager (PM) of the Contractor NEM stated

that no fulltime Environmental Officer (EO) of the Contractor will be required. The Environmental Manager of NEM will from time to time oversee the issues. This was accepted by PD-PIU and RE.

- Erosion control and removing invasive plants (*Mimosa*) was attended from time to time, but not anymore fully controlled by end of the monitoring period.
- Silt traps were not functioning. The new sluice area directly dewatered to the new sluice canal with heavy silt load.
- Presence of stagnant water in new sluice area and canal diverted sections caused mosquito breeding. This was rectified by mid-December 2019.
- No mechanism was established to properly dispose the sludge of the sedimentation tank associated with the batching plant. Batching plant is not operated regular, hence smaller quantities of sludge collected from the tanks are piled up in the batching plant area for later disposal.
- Access roads were muddy and eroded.

Photographic evidences of the key environmental safeguard concerns related to NWPCP-NCB-1 area during the monitoring period are shown in **Figure 3-2**.

	
<b>Stagnant water at new sluice with algal blooming (01 November 2019)</b>	<b>Mitigated by removing stagnant water by 02 January 2020</b>
	
<b>Loose soil of coffer dam at the edge at Wemedilla tank (05 November 2019)</b>	<b>No adequate corrective measures attended (02 February 2020)</b>



	
Increased spreading of <i>Mimosa pigra</i> on canal bank (05 November 2019) and at Wemedilla tank new sluice (21 November 2019)	Clearing of invasive species in Wemedilla tank at and near new sluice and on canal bank (end of December 2019)
	
Turbid water in Wemedilla tank at new sluice due to erosion (21 November 2019)	Establishing side drains and putting rubble pack to control erosion of the access road slope at sluice



	
<p><b>Muddy access road and eroded canal banks in the construction area (25 November 2019)</b></p>	<p><b>Access road preparation, road resurfacing has commenced (02 January 2020)</b></p>
	
<p><b>Unmanaged batching plant area with stagnant water in sedimentation tank and waste (25 November 2019)</b></p>	<p><b>Sludge removed but not fully cleaned (02 January 2020)</b></p>
	
<p><b>Heavily silted water drained from new sluice to new tail canal without silt trap (04 December 2019)</b></p>	<p><b>No silt traps, canal bank erosion not attended (02 January 2020)</b></p>

**Figure 3-2: Photographic records of monitoring findings and corrective actions taken by end of December 2019 in NWPCP-NCB-1 area**

### 3.1.2 NWPC-ICB-2

#### a) Monitoring by Observations

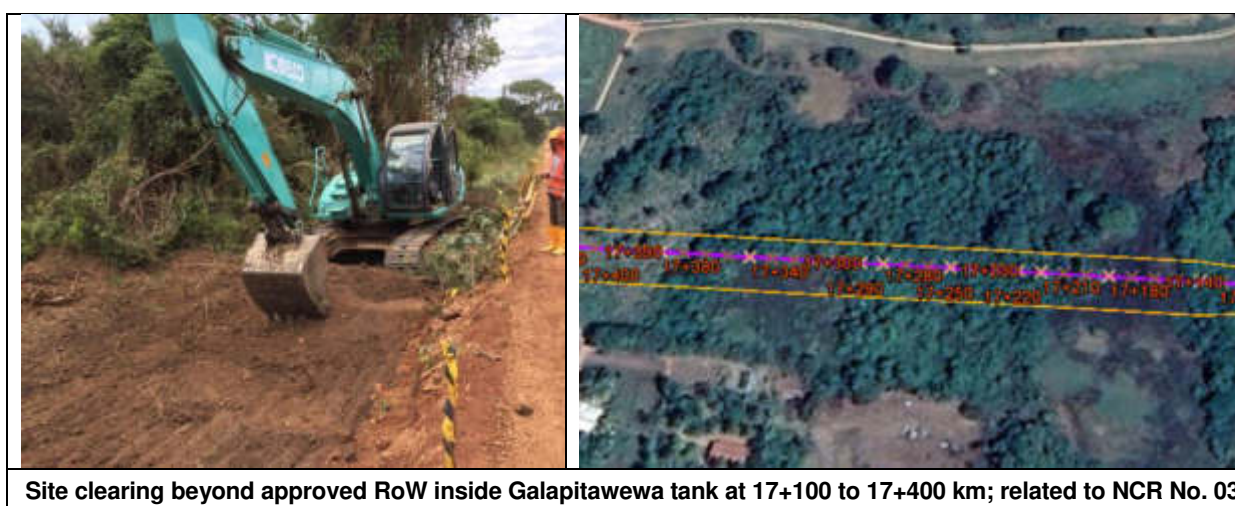
26. **Table 3-1** summarizes the environmental Non-compliance Records (NCR) or Environmental Incidents reported and status of attending corrective actions by end of December 2019 for NWPCP-ICB-2.

**Table 3-1: Records of E-NCR and Incident Records during the monitoring period in NWPCP-ICB-2**







No.	Issue	Date of Record	Corrective Actions taken and progress summary with dates
i.	NCR No. 03 Env: Site clearing beyond approved RoW inside Galapitawewa tank at 17+100 to 17+400 km without meeting necessary approval requirements	01.08.2019	<ul style="list-style-type: none"> <li>Immediately stopped clearing work until approval of the work by the Engineer, confirming receipt of relevant approval from Agrarian Services Department and MS approved by Engineer</li> <li>Responding to the NCR; MS including the written conditional approval from the Deputy Commissioner of the Agrarian Services Department (Matale) with letter reference 5/3/2/1/2019 dated 08 August 2019 was submitted by the Contractor CSCEC on 07.08.19 (Ref. CSCEC-ICB2-PMDSC-459-2019)</li> <li>After receiving the approval from both Agrarian Services Department and the Engineer, CSCEC marked the approved enlarged boundary of the construction area between 17+100 to 17+400 km at Galapitawewa with tapes visible to the site staff to avoid clearing beyond the boundary</li> <li>NCR was closed on 12.08.2019</li> </ul>
ii.	NCR No. 04 Env: Operating large-scale (>1 ha land area) soil and earth dump and / or stockpile yards without Central Environment Authority (CEA) approval at 11+400 km, 16+400 km, 18+200 km, 18+500 km and 19+300 km	07.08.2019	<ul style="list-style-type: none"> <li>All operations immediately stopped by CSCEC temporarily</li> <li>MS submitted including the approvals (CEA/ Local Government Authority) on 07.09.2019</li> <li>Restoration plans for dumping sites submitted on 28.09.2019</li> <li>Rectification of damaged well of Mr. Thushara at 16+400 km, including supply of alternative water source, with tank, cleaning the well, etc., was reported by Contractor on 13.12.2019, but the affected party was not satisfied</li> <li>A new tube well was agreed to be provided by CSCEC in early January 2020</li> </ul>
iii.	NCR No. 05 Env: Washing off the stockpiles and overflowing streams located upstream has resulted - due to lack of proper diversion during canal excavation – in crop damage, siltation of wells etc.	01.10.2019	<ul style="list-style-type: none"> <li>Well purification was attended immediately but the problem was not fully controlled until the end of the month</li> <li>Damages were paid for 2 agriculture fields by 29 October 2019; relevant documentation is in progress for another payment</li> <li>Implementation of covering stockpiles, arranging diversions, and erosion control measures started on 25 October 2019, but was not fully controlled; reminders were issued during daily inspections by EMS, verbally and in writing</li> <li>Corrective actions were completed for NCR No. 4 and No. 5 on 26.12.2019; NCR was closed with conditions</li> </ul>
iv.	NCR No. 06: Excavating trenches to drain storm water beyond approved RoW without the required consent and RE approval	17.10.2019	<ul style="list-style-type: none"> <li>Corrective actions taken by CSCEC on 02.11.2019 (ref. CSCEC-ICB2-PMDSC-720-2019) including the letters of consent from the respective landowners (R.A.J.P. Rajapakshe at 11+150 km and K. W. Senadheera at 11+350 km)</li> </ul>

No.	Issue	Date of Record	Corrective Actions taken and progress summary with dates
v.	NCR No. 07 Env.: Issues in the batching plant area, mainly due to lack of proper wastewater and solid waste treatment, disposal arrangements, noise and dust issues, and complaints from the neighbourhood	25.10.2019	<ul style="list-style-type: none"> <li>MS was submitted by CSCEC to rectify the highlighted issues on 02.11.2019 (ref. CSCEC-ICB2-PMDSC-719-2019); MS was returned for resubmission by the RE on 29.11.2019 considering the comments raised by EMS.</li> <li>Corrective actions taken by CSCEC were reported to RE on 27.12.2019 (ref. CSCEC-ICB2-PMDSC-907-2019); site monitoring noted that actions taken are not satisfactory; hence NCR was still not closed at the end of monitoring period</li> <li>Revised MS incorporating Engineer's comments was submitted by CSCEC on 28.12.2019 (ref. CSCEC-ICB2-PMDSC-908-2019)</li> </ul>
vi.	Environmental Issue recorded on damaging private properties due to soil wash off from unprotected stockpile at 20+100 km (linked with NCR No. 05)	01.12.2019	<ul style="list-style-type: none"> <li>MS for storm water management (at ch.15+650 to ch.16+250 km) was submitted on 04.12.2019 (ref. CSCEC-ICB2-PMDSC-816-2019)</li> <li>Compensation for damaged private properties of Mr. Chanaka due to wash-off soil at ch. 20+100 km was attended by CSCEC by paying LKR 80,000.- as well as obtaining his land for stormwater drainage</li> <li>Evidences were shared with RE on 06.12.2019 (ref. CSCEC-ICB2-PMDSC-831-2019)</li> <li>Required rectification to the properties of vulnerable women Ms Renuka was unattended at the end of December 2019</li> </ul>
vii.	Env issue recorded related to access inundation due to construction work at 16+300 km	23.12.2019	<ul style="list-style-type: none"> <li>The Contractor was immediately advised by EMS to dewater the inundated section, and to prepare the access enabling the community to use the road</li> <li>It was rectified on the same day; access was opened to the public</li> </ul>

27. Photographic records of observations during the monitoring period in the NWPCP-ICB-2 area are shown in **Figure 3-3**.





	
<p><b>Operating large-scale (&gt;1 ha land area) soil and earth dump and/or stockpile yards without required approvals at 11+400 km, 16+400 km, 18+200 km, 18+500 km and 19+300 km; related to NCR No. 4</b></p>	
	
<p><b>Washing off the stockpiles and overflowing the streams in the upstream due to lack of proper diversion during canal excavation affecting agriculture fields, wells, access roads etc.; related to NCR No. 05</b></p>	
	
<p><b>Covered stockpiles</b></p>	<p><b>Halfway covered stockpiles (25.11.2019)</b></p>

	
<p><b>Washed off silt traps (01.12.2019)</b></p>	<p><b>Halfway covered and re-affected well of Mr. Chanaka due to stockpiling at 20+100 km (01.12.2019)</b></p>
	
<p><b>Re-affected paddy field of Mr. Chanaka and access road of Ms. Renuka due to stockpile at 20+100 km (01.12.2019)</b></p>	
	
<p><b>Drinking water and cleaned well compensated by CSCEC to Mr. Thushara (well affected due to stockpile at 16+400 km) (25.11.2019)</b></p>	





**Figure 3-3: Photographic evidences for the monitoring findings in NWPCP-ICB-2 area**

## b) Environmental Quality Monitoring

28. Responding to the opposition from the villagers against dewatering at 18+000 km to 18+300 km due to well water level depletion, the Contractor started monitoring the well water levels jointly with the participation of EMS-PMDSC, SEO of PIU, relevant RE's staff and Contractor's staff on 02 September 2019. The first monitoring report was submitted by the Contractor on 06 September 2019.

29. A periodical monitoring schedule is to be prepared by the Contractor. The summary of the well monitoring carried out within the reporting period from July to December 2019 is given in **Table 3-2. Annex 2** provides the draft reports prepared by the Contractor<sup>4</sup>. The water level in the well is measured from top of the guard wall / ground level to sill level in meters.

**Table 3-2: Summary of the well monitoring in NWPCP ICB 2 area**

Date	Description	Locations		Water level (m)
		Well No.	GPS	
02.09.2019	Nilagama Tunnel area near portal area and along the tunnel	NW 1	N 585,031 / E 473,747	0.5
		NW 2	N 585,014 / E 473,744	9.4
		NW 5	N 585,088 / E 473,763	8.8
		NW 11	N 585,149 / E 472,951	1.0
		NW 15	N 585,065 / E 473,962	5.7
	Ranwediawas Tunnel area near portal and along the tunnel	RW 11	N 582,636.27 / E 473,747	1.3
		RW 17	N 582,545.16 / E 476,080.18	4.7
		RW 20	N 582,619.41 / E 476,003.51	6.0
		RW 23	N 582,559.99 / E 475,955.38	7.2
		RW 24	N 582,632.50 / E 476,080.18	5.28
		RW 26	N 582,624.90 / E 475,824.69	6.0
		RW 29	N 582,644.05 / E 475,752.50	3.10
		RW 31	N 582,597.10 / E 475,669.68	3.2
		RW 33	N 582,643.79 / E 475,720.10	3.9
		RW 35	N 582,588.06 / E 475,563.90	3.35
19.09.2019	Hombawa area – canal change after 12+000 km	HW 01	R. G. Wijerathne, Kospotha, Beligamuwa	1.80
		HW 02	N 583,196 / E 475,032	3.6
		HW 03	N 583,300 / E 475,054	4.9
		HW 04	N 583,026 / E 473,815	tube well
		HW 05	N 585,088 / E 473,763	4.7
		HW 06	Mrs. B. M. Gunawathi, Thalakiriyagama, Bambaragaswewa	5.5
		HW 07	N 585,086 / E 473,881	5.0
		HW 08	N 585,142 / E 473,845	6.5
		HW 09	N 585,167 / E 473,725	3.7

<sup>4</sup> Source: NWPCP-ICB-2 Contractor CSCEC, letters ref. CSCEC-ICB 2-PMDSC-634-2019 dated 28 September 2019; CSCEC-ICB 2-PMDSC-554-2019 dated 06 September 2019. Well Monitoring Report 1, 2, 4 and 5 released during monitoring period, and well water report No. 3 related to tunnels to be released in February 2020 due to a numbering issue.

Date	Description	Locations		Water level (m)
		Well No.	GPS	
		HW 10	N 583,864 / E 474,745	5.0
		HW 11	N 585,296 / E 473,795	8.8
		HW 12	Mr. W.K. Jamis Sighe, Daduwagolla, Bambaragaswewa, Galewela	6.10
		HW 13	Mr. W. K. Siman Silva, Daduwagolla, Bambaragaswewa, Galewela	4.30
		HW 14	Mr. Pradeep Darmadasa, 277/A/1, Daduwagolla, Bambaragaswewa, Galewela	5.80
		HW 15	Mr. K. B. W. Rathnakumara, 277/A/2, Daduwagolla, Bambaragaswewa, Galewela	5.20
		HW 16	Mr. K. D. Nimal Shantha, 363, Daduwagolla, Bambaragaswewa, Galewela	4.10
		HW 17	Mr. R. G. Piyasena, Daduwagolla, Bambaragaswewa, Galewela	5.20
26.09.19	Aluthwewa area – canal change from 16+000	AW 1	N 596, 982/ E 473,725	7.0
		AW 2	N 586, 978/ E 471,983	5.45
		AW 3	N 586, 978/ E 471,983	6.90
		AW 4	N 586, 986/ E 472,299	9.25
		AW 5	N 586, 749/ E 472,306	6.15
		AW 6	N 586, 749/ E 472,604	6.75
		AW 7	N 586, 687/ E 472,262	5.00
		AW 8	Mr. M. G. P. Sisira Kumara, 40A, Aluthwewwa, Bambaragaswewa	5.70
		AW 9	Mr. H. M. Senanayake, Aluthwewwa, Bambaragaswewa	5.20
		AW 10	N 586, 393/ E 472,729	5.00
		AW 11	N 586, 248/ E 472,702	5.45
		AW 12	N 586, 245/ E 472,710	4.30
		AW 13	N 586, 605/ E 472,657	6.10

### 3.2 ADB / CEA monitoring visits

30. Environmental Monitoring Committee (EMC) appointed by the CEA representing key government institutions and departments made their annual monitoring visit to NWPCP area on 20 September 2019. The outcome of the visit was officially reported to the MWSIP on 12 December 2019 by CEA (refer **Annex 3**).

31. ADB safeguard mission visited the NWPCP area on 15 October 2019. Their key environmental concerns raised are summarized below related to both NWPCP-ICB-2 and -NCB 1:

- Drainage arrangements were not attended prior to excavating the canal. Consequently, nearby agriculture fields (mainly 3 numbers) were affected due to recent rains. This incident happened about 5 days ago [i.e. 10 October 2019]. Engineer's letters to the Contractor, NCRs were produced to the ADB team. The Contractor already paid compensation by cash to one affected family 2 days ago [i.e. 13 October 2019]. The rest is being attended.
- De-watering arrangements were not in place. Consequently, nearby agriculture fields were affected with silted material. The Contractor must submit the MS obtaining approval from the Engineer. The Engineer has



provided his guidance two-times, proposing to improve the MS with good practices for environmental aspects, but the Contractor did not yet attend.

- The "waste dump" matter is not about the "waste" but due to the inadequate RoW, the excavated soil gets temporarily dumped either sides and has been washed off (about 10 m away from the acquired RoW) again to nearby agriculture fields (at 11+500 km). ADB/Ms Rebeka highlighted this as a social / land matter rather than as an environmental matter. Hence, the Contractor was advised to obtain consent letters from the landowners where they need such additional areas to be used during construction. The RE needs to be copied by the Contractor to keep records. In addition, PIU needs to coordinate discussing these issues with the Grievance Redress Committee (GRC).
- Further, the NWPCP-ICB-2 Contractor was advised to clearly mark the acquired land boundaries (some are marked, but some places where construction is going on the barricading tapes are damaged; the Contractor acknowledged and will improve it).
- ADB highlighted that the NWPCP-ICB-2 concrete batching plant is well managed except for few points to be improved (dust barriers to be completed in the material storage areas, sludge disposal arrangement in the sedimentation tank to be planned). These issues were already conveyed to the Contractor, but he did not yet attend these. The Contractor promised to ADB to rectify those.
- Some land matters were discussed under NWPCP-NCB-1 contract package. The requirements of safety arrangements were highlighted.

### 3.3 Key meetings, stakeholder consultation, joint inspections

32. The key meetings, stakeholder consultations with the relevant government agencies, community base organizations etc. and the key joint inspections made in the project area are summarized in **Table 3-3**.

**Table 3-3: List of key meetings, stakeholder consultations and joint inspections attended by the Environmental team of PMDSC related to NWPCP**

Date	Location	Participants	Outcomes / Remarks
15.07.2019	DWC range office, Pibidunagama	EMS of PMDSC, SEO of PMU/PIU, Contractor's relevant staff	Discuss about the requirements and procedures regarding operation of new gates at the disturbed areas of electric fence
18.07.2019			Information about DWC requirements regarding working inside the DWC area
24.07.2019	CRE office, Dambulla	ES, EMS of PMDSC, Contractors' relevant officers of NWPCP, Independent Environmental Monitoring Specialist (IEMS)	Semi-annual progress update to the IEMS and discussion
25.07.2019		ES, EMS of PMDSC, Contractors' relevant officers of NWPCP	Environmental safeguard awareness session for the new EO of NWPCP-ICB-2 Contractor by EMS/ ES of PMDSC guiding him on ADB SPS (2009), CEA requirements, preparing MS / CEMP and other reports, sharing relevant formats, implementing EMP/CEMP, monitoring etc.
29./30.07. 2019	NWPCP-NCB-1 and NWPCP-ICB-2 construction / project areas	EMS of PMDSC, Contractors' relevant officers of NWPCP, Independent Environmental Monitoring Specialist (IEMS)	Semi-annual progress update for the IEMS by conducting site visits to the project areas, community and consultations with Engineer, community and related stakeholders in NWPCP areas
23.08.2019	Aluthwewa	EMS of PMDSC, SEO of PMU/PIU, Contractor's relevant staff	Grievance Redress Meeting (GRM) at Aluthwewa area

Date	Location	Participants	Outcomes / Remarks
17.09.2019	Hombawe GS Office	EMS, of PMDSC, SEO of PMU/PIU, Contractor's and RE's relevant staff	Grievance committee meeting with the participation of affected community, Grama Niladhari, local government officers
19.09.2019	Kospotha	EMS, of PMDSC, SEO of PMU/PIU, Contractor's and RE's relevant staff	Grievance committee joint inspection to understand the field condition of the affected paddy areas due to lack of water way, with the participation of affected community, Grama Niladhari, local government officers
20.09.2019	NWPCP area	EMC members representing key government institutions and departments appointed by CEA, representatives of PMU/PIU and PMDSC related to Environmental safeguard management	Annual visit by CEA to confirm whether the conditions and recommendations stipulated in the CEA conditional approval for the EIA and other facilities are complied with by the Project  The CEA decisions of the visit are given in <b>Annex 3</b> . The key concerns highlighted by DWC was reported to the Contractor through letter ref. PMDSC-NWP-Site/ICB2/CSCEC/402 dated 23 September 2019
15.10.2019	NWPCP area	ADB safeguard team, PMU, PIU, PMDSC relent officers, Contractors' representatives	Site monitoring, consultation as a part of ADB safeguard review mission
23.10.2019	Divisional Secretaries Officer, Galewea	DS of Galewela, relevant Grama Niladharis, community members, OIC Galewela, Police, Contractor, PIU relevant officers including PD-PIU, SEO etc, PMDSC environmental staff	Meeting was arranged by PIU to discuss the prevailing environment, social issues in the NWPCP-ICB-2 project area, and to instruct the Contractor to manage those issues
25.10.2019	CRE Office	CRE, ES, EMS, RE, HSO of PMDSC, DPE of CSCEC	Special meeting on the prevailing environmental shortcomings in the NWPCP-ICB-2 area, and confirming timelines for rectification
25.11.2019	NWPCP area	EMS, ES of PMDSC, SEO of PMU/PIU, Contractor's and RE's relevant staff	Joint site inspection to NWPCP-ICB-2 area, and conducting an awareness session for the EO of the Contractor to rectify the issues related to the open NCRs
19.12.2019	NWPCP-ICB-2 and NWPCP-NCB-1 sites	State minister, secretaries, National Planning and ERD officers, relevant Environment, Engineering staff of PMDSC, PMU, PIU	Exposure site visit to oversee the project progress at NWPCP organized by the MMD
23.12.2019	DWC Colombo office, Battaramulla	Director DWC, and relevant field officers, RE NWPCP-ICB-2, PD-PIU NWPCP, environmental team of PMDSC(EMS/ES), PIU (SEO) and PMU (ES), NWPCP-ICB-2 Contractor's representatives	Meeting was arranged to discuss the prevailing issues working inside DWC areas under NWPCP-ICB-2, to obtain DWC concurrence and working arrangement in DWC areas related to additional RoW, and security and fencing requirements by DWC

### 3.4 Other remarks related to NWPCP-ICB-2

33. The Environmental Officer (EO) of the Contractor resigned in early November 2019. A new CV was submitted for the Engineer's approval by CSCEC on 26 November 2019. Considering the urgency of having an EO at the site for environmental monitoring and EMP implementation, the submitted CV was approved on 28 November 2019.

34. Wildlife Department was provided with the required safety items (11 safety helmets, 11 safety jackets and 3 rechargeable torches) for those officers who are engaged in the site supervision work, by the Contractor in October 2019.

35. There are in total eight (08) approved stockpiles and disposal sites operated by the Contractor. Due to the slow progress in backfilling there is a requirement to open up more stockpiles. This has become an environmental issue in the NWPCP-ICB-2 project area where settlements and agriculture lands exist.

36. Key environmental concerns associated with the NWPCP-ICB-2 construction work have been notified to the Contractor through RE, but the response from the Contractor CSCEC is very slow and inadequate.

37. The officers from the Department of Wildlife Conservation (DWC) attended the Environmental Monitoring Committee (EMC) visit on 20 September 2019. The Central Environmental Authority (CEA) emphasized that remaining parts (roots/branches etc.) as a result of the tree felling inside the sanctuary area should not be taken out from the sanctuary area complying with the Fauna and Flora Protection Ordinance (FFPO). Instead, the DWC officers advised to dispose them in selected areas within the sanctuary as directed by the DWC Range officers - Pibidunagama to decay naturally as it will enrich the soil fertility as well as to provide habitats for the small animals and faunal groups. PMDSC arranged a joint visit with the DWC officers immediately to identify the suitable areas within the sanctuary area to dispose such vegetative parts without blocking the surface runoff/ drainage paths and other useful habitats in the protected area.

38. Excavation beyond RoW was observed, and the instruction was issued on 16 October 2019 to follow the required approval procedures, and sign agreements with the landowners for the temporary use of lands. The CSCEC has now adapted to follow required practice, procedures and signing agreements with landowners as advised by Engineer and ADB.

## 4 ENVIRONMENTAL SAFEGUARD COMPLIANCE STATUS - NWPCP

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

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

### 4.1 Compliance Status Related to the CEA Approval Conditions

41. **Table 4-1** summarizes the activities carried out jointly by the Employer and PMDSC to meet the conditions given in the CEA approval.

**Table 4-1: Key Actions in Compliance with the CEA approval conditions**

No.	Approval condition	Compliance status	Remarks
1	Preparation of Wildlife Management Plan (WMP)	Plan prepared & approved by CEA	
2	Implementation of recommendations of WMP	Implementation works of the WMP is in progress Work plan & activity plan prepared for implementation	<ul style="list-style-type: none"> <li>45 ha out of 165 ha reforestation – Beligamuwakanda</li> <li>7 tanks for ecological restoration – Kumbukulawa cascade /Polpitigama</li> <li>Rehabilitation of 4 water holes inside Kahalla-Pallakele sanctuary (KPS)</li> <li>Establishment of elephant corridor (GalgamuwaTeak plantation to Ambakolawewa via Mi Oya)</li> <li>Removal of <i>Mimosa Pigra</i> in Wemedilla tank</li> <li>Removal of teak plantation and restoration as grass land and natural forest inside KPS</li> </ul>
3	Information of changes to the Project between proposal in the approved EIA and implementation	EIA addendum for deviation of a 400 m long canal section along NWPCP-ICB-2 canal alignment and information to CEA; addendum approval granted	<ul style="list-style-type: none"> <li>Expecting tree felling activities to be carried out by STC as directed by FD/DWC</li> <li>Species translocation followed by baseline ecological survey is expected to be carried out under PMDSC in next semester</li> </ul>
4.a	Implementation of non-construction-based recommendations of EIAR, e.g. reforestation	Nursery establishments and site survey in progress for reforestation program of the Beligamuwa Kanda forest area	<ul style="list-style-type: none"> <li>LKR 6.87 million released to FD for 45 ha replanted work</li> </ul>

42. In addition to above, following **Table 4-2** summarizes the construction-based activities in which the Employer and PMDSC were involved with the Contractor and other key stakeholder agencies during the monitoring period.

**Table 4-2: Construction based events carried out during the monitoring period**

Date	Activity	Location
02.07.2019	FD plant Nursery inspection, Inspection on NCB-1/ICB-2	NCB-1/ICB-2, Galewela
22.07.2019	ICB1 land issue inspection with DWC ranger	Pothuvila
25.07.2019	Jointly safety inspection with PMDSC/CSCEC /PIU	ICB-2
01.08.2019	Site inspection ICB-2/ NCB-1 safety inspection	NCB-1/ICB-2
05.08.2019	Field visit with Media team (FB/Youtube)	ICB-2
06.08.2019	Site inspection for additional land at 18+500 KPS area with PMDSC & CSCEC	ICB-2
16.08.2019	Test blast inspection at ICB-2 at 18+450 km	ICB-2
21.08.2019	Site inspection ICB- 2 water level dropping area	ICB-2
11.09.2019	Field inspection for Annexed forest -	Galnewa
12.09.2019	Field inspection for Annexed forest -	Kalawewa
19.09.2019	Field inspection for grievances- Kospotha	ICB-2
24.09.2019	<i>Mimosa pigra</i> management norms preparation work, identification of site at Wemedilla	Wemedilla
25.09.2019	<i>Mimosa pigra</i> management norms preparation work, identification of site at Wemedilla	Wemedilla
27.09.2019	Field inspection with FD-BFO at ch. 18+500 - 19+600 km area	ICB-2
02.10.2019	Site inspection for crop damages at Pibidunugama and Aluthwewa	ICB-2
05.10.2019	ADB technical Team Visit – ICB-1/ICB-2 & NCB-1	NCB-1, ICB-2/ ICB-1
10.10.2019	Inspection reforestation - Beligamuwakanda RFO office-Naula for ICB-2 Additional land issue	Naula
12.10.2019	Commencement of Reforestation program at Beligamuwakanda	Galewela
15.10.2019	ADB ENMT & Social Team Visit – ICB-2 & NCB-1	NCB-1, ICB-2
22.10.2019	Site inspection ICB-2 for public complains	ICB-2 area
29.10.2019	ICB-1 site inspection with CMCE	ICB-1
01.11.2019	ENMT site inspection & progress meeting ICB-2/NCB-1	NCB-1, ICB-2
15.11.2019	Kumbukulla Cascade GPS Survey work for eco-restoration	Polpitigama
18.11.2019	Encroach land boundary demarcation-ICB-1 Pothuvila & Wemedilla <i>Mimosa</i> site inspection	ICB-1/NCB-1
25.11.2019	Environmental Site inspection with PMDSC & Contractor's staff NCB-1& ICB-2	ICB-2/NCB-1
01.12.2019	ENMT site inspection & progress meeting ICB-2/NCB-1	ICB-2/NCB-1
06.12.2019	STC inspection ICB-2 for tree removing	ICB-2 KPS
17.12.2019	Beligamuwakanda site inspection with FD officers	Galewela
31.12.2019	ICB-2 inspection	ICB-2

43. There are number of meetings and training programs carried out during the monitoring period with the participation of relevant officers representing PMU, PIU, PMDSC (Engineer) and the Contractors. A summary of the details is presented in **Table 4-3**.

**Table 4-3: Summary of the meetings and trainings conducted during the monitoring period**

Date	Activity	Location
04.07.2019	Progress meeting NCB-1/ICB-2	RE's office
12.07.2019	Site meeting- ICB-2 Contractor's office	Contractor's office
18.07.2019	ICB-2/KPS work, Meeting with DWC officers	DWC office-Pibipunugama
19.07.2019	ADB SESMS training	Ududumbara
22.07.2019	WMP-HEC meeting at DS office	Galgamuwa DS office
29.07.2019	GRC-Hombawa (Adagala & Katupotha)	ICB-2
30.07.2019	WMP-Steering committee meeting -	GA office-Kurunegala
01.08.2019	Progress meeting ICB-2	CSCEC office
02.08.2019	WMP awareness at DS office	Polpitigama
13.08.2019	Siyabalangamuwa Awareness with MP Santha Bandara	Siyabalangamuwa
20.08.2019	WMP-Small Tank committee formation meeting- Polpitigama & field inspection	Polpitigama DS office
22.08.2019	WMP consultative session - Ambanpola DS office	Ambanpola DS office
23.08.2019	GRC meeting at Aluthwewa GND	GN office
29.08.2019	WMP consultative session - Maho DS office	Maho DS office
30.08.2019	ICB-2 Site meeting	CSCEC office
03.09.2019	Site inspection & ENMT Progress meeting ICB-2/NCB-1	NCB-1/ICB-2
05.09.2019	Monthly Progress meeting- ICB-2	CSCEC office
09.09.2019	Teak harvested area inspection with DFO-Kurunegala at Hakwatunaoya area	Irudeniya
10.09.2019	WMP awareness GND-Ambakolawewa and Balungala – DS Ambanpola Area	Abanpola
17.09.2019	GRC meeting at Kospotha GND	GN office
20.09.2019	CEA EMC site visit and meeting	NCB-1/ICB-2
03.10.2019	Monthly ENMT Progress meeting- ICB-2 Progress meeting- ICB-2	CSCEC office
18.10.2019	ADB Meeting- PMU	PMU Colombo
23.10.2019	Grievance meeting DS - Galewela	DS - Galewela
25.10.2019	WMP progress meeting-PIU Monthly site meeting - CSCEC	PIU/CSCEC
30.10.2019	NCB-1 site meeting - RE office Dambulla	RE office
04.11.2019	WMP Progress meeting / PMU	PMU
06.11.2019	Communication meeting - PIU	PIU
07.11.2019	ICB-2 progress meeting - CSCEC	CSCEC
13.11.2019	Brainstorming workshop - PMU	PMU
14.11.2019	ICB-2 site meeting	CSCEC
20.11.2019	Special progress & issues discussion at CSCEC, PMU, PIU, PMDSC	CSCEC office
21.11.2019	Consultative session with DWC & FD officers of Kurunegala & Matale district	PIU
22.11.2019	weekly site meeting ICB-2	CSCEC office

Date	Activity	Location
26.11.2019	Monthly site meeting NCB1	RE's office
28.11.2019	WMP meeting - DS Ambanpola	Ambanpola
29.11.2019	weekly site meeting ICB2	CSCEC office
05.12.2019	Monthly progress meeting ICB2/NCB1	CSCEC& RE's office
09.12.2019	WMP meeting - DS Ehetuwewa	Ehetuwewa
10.12.2019	WMP/Small tank meeting - DS polpitigama	Polpitigama
17.12.2019	weekly site meeting ICB2	CSCEC office
19.12.2019	Kumbukulawa tank discussion	DS polpitigam ,
23.12.2019	DWC meeting -Battaramulla	Battaramulla
24.12.2019	NCB1 site meeting -	Dambulla
27.12.2019	weekly site meeting ICB2	CSCEC office

## 4.2 Disclosure and GRM

44. **Table 4-4** summarizes the number of Grievance Redress Committee (GRC) meetings conducted during the monitoring period by PMU/PIU in the NWPCP project area.

**Table 4-4: Summary of the GRCs Established in NWPCP Area**

Type of committee	GRC-Name	Members	No. of meetings	No. of issues raised
GRC	Kospotha Hombawa Aluthwewa	<ul style="list-style-type: none"> <li>Divisional Secretary (DS)</li> <li>Grama Niladhari (GN)</li> <li>Development Officer (DO) of the DS</li> <li>Aagrarian Services Dept.</li> <li>CBO leaders</li> <li>Police</li> </ul>	3 meetings	9 issues
	DS level		1 meeting	12 Issues
	GA level		No meetings held, but the Grievances received by community to GN and PD-PIU	N/A
	MMDE Level			N/A

45. A brief summary of the environment related grievances during the monitoring period is given in **Table 4-6**.

**Table 4-5: Summary of Environmental Grievances Attended**

GRC - Name	No. received	No. attended	No. resolved	Remarks
Hombawa	1	1	1	DS level meeting
ICB-2	4	4	4	GN level

46. **Annex 4** provides photographic records and relevant maps of the work carried out related to the Environmental safeguard compliance jointly with PMU/PIU and PMDSC.

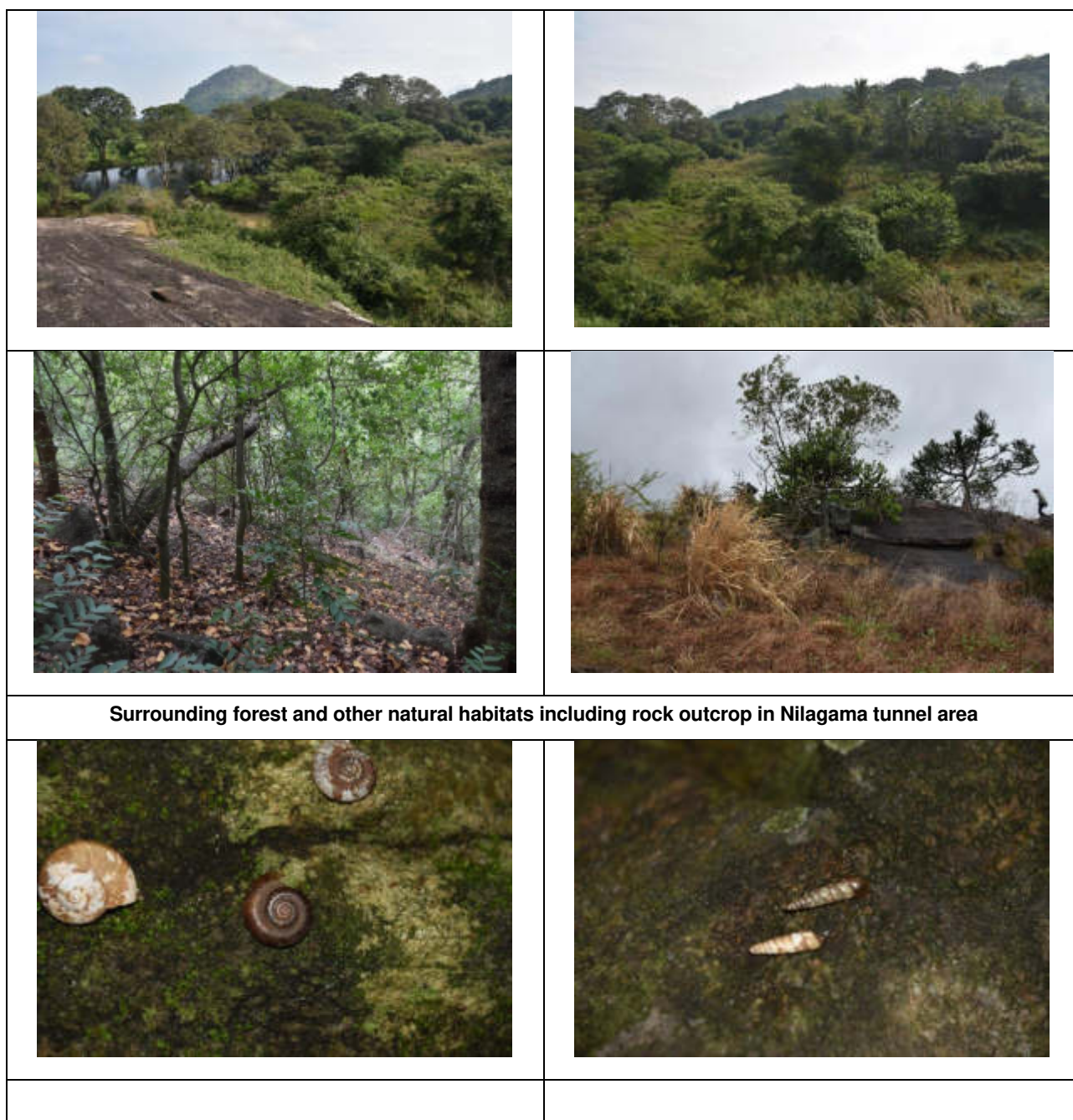


### 4.3 Additional environmental surveys, reporting under NWPCP within the reporting period managed by PMDSC

#### 4.3.1 Baseline ecological survey in NWPCP-ICB-2 area and species translocation

47. The critical species translocation and baseline ecological survey was carried out by the Rajarata University team selected as per ADB shopping procurement procedure by PMDSC. The biodiversity baseline survey in the possible project affecting areas related to Nilagama tunnel was carried out for about 8 days starting from 19 August 2019 covering the dry season. The wet season sampling was attended in November and December 2019.

48. Some photographic records of the area, and endemic, endangered fauna and flora species found during the survey are shown in **Figure 4-1**.







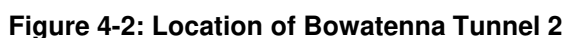
**Figure 4-1: Photographic records of the biodiversity survey carried out in the Nilagama tunnel area**

### 4.3.2 Feasibility studies on Bowatenna Tunnel 2

49. The proposed Bowatenna Tunnel 2 (BT2) is a change to the original planning of the MWSIP – Phase 1. **Figure 4-2** shows the general location of the new tunnel. Currently, the transfer capacity of Bowatenna Tunnel 1 is limiting the water diversion management flexibility for Systems H and NWP. This tendency would have further increased with completion of Phase 1 and Phase 2 of MWSIP, if developed as previously planned through the diversion from Dambulu Oya into Wemedilla / NWPC through the NWPC-ICB-4 contract package.

50. The negative perception of current water users inherent with diversion of water after release from Bowatenna Reservoir at a new anicut to be constructed under the NWPC-ICB-4 contract on the Dambula Oya near Lenadora will be avoided when water is diverted from within the reservoir. Thus, Bowatenna Tunnel 2 is a major contribution to the avoidance of social problems.

51. Environmental feasibility of Bowatenna Tunnel 2 commenced with the contribution of the international environmental specialist of PMDSC, with the field support from EMS PMDSC for NWPCP. Since the approved EIA did not include a study of the anticipated environmental impacts related to Bowatenna Tunnel 2, it was the decision of the Environmental team of PMDSC, PMU to carry out a separate Environmental Assessment and to submit the Basic Information Questionnaire to the CEA in order to initiate the EIA process.



52. ADB conducted a full day training review and training session for Site Specific Environmental Safeguard Monitoring System (SESMS) on 19 July 2019 for the EMS, ES of PMDSC and relevant environmental staff of the Contractors, PIU and PMU. Resident Engineers also attended the session.

SAEMR NWPCP July to December 2019

## 5 PLANNED ACTIVITIES FOR NEXT SEMESTER (JANUARY – JUNE 2020)

54. The key activities planned under the PMDSC for next semester will include following:
- Complete ecological baseline and species translocation study report for NWPCP-ICB-2 carried out through the Rajarata University
  - Carry out environmental quality testing associated with the key construction areas of NWPCP-ICB-2
  - Carry out detailed environmental studies for Bowatenna Tunnel 2
  - Initiate activities related to NWPCP-ICB-1 contract which is located within a highly environmentally sensitive area inside Kahala-Pallekele sanctuary and involves a significant amount of forest clearing.
55. Activities related to the EIA and CEA conditions are summarized under **Table 5-1**.

**Table 5-1: Planned activities under CEA and EIA approval compliances**

No	Activity	Start date	Tentative date for completion
	<b>Wildlife Management Plan implementation</b>	01.01.2020	Continue in 2020
1	Beligamuwa Kanda Reforestation work	01.01.2020	Continue in 2020
2	Habitat enrichment program for Kahalla-Pallakele Sanctuary (KPS) (Grassland & Natural forest)	01.01.2020	Continue in 2020
3	Water hole & anicut construction inside KPS	01.01.2020	30.06.2020
3	Kumbukulawa Cascade 7 tanks ecological restoration	01.01.2020	01.07.2020
4	Eradication program of Mimosa Pigra in Wemedilla tank	01.01.2020	Continue in 2020
5	Establishment of Mi Oya elephant corridor	01.01.2020	Continue in 2020
6	<b>GRC Meetings</b>	01.01.2020	Continue in 2020
7	<b>Environment &amp; Safety inspection for ICB-2, ICB-1&amp; NCB-1</b>	01.01.2020	Continue in 2020
	<b>ICB-2</b>		
8	Tree Removal – (21+900-22+300) (18+500-19+650)	01.01.2020	28.02.2020
9	Progress & site meeting	01.01.2020	Continue in 2020
	<b>NCB-1</b>		
10	Reforestation program for NCB-1	01.01.2020	Continue in 2020
11	Progress & site meetings	01.01.2020	Continue in 2020
	<b>ICB-1</b>		
12	Tree Removing	01.01.2020	Continue in 2020
13	Progress & site meeting	01.01.2020	Continue in 2020

## **Annex 1:**

### **DWC and FD Concurrence of the Technical Note explaining additional RoW requirements**



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## Mahaweli Water Security Investment Programme

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 Programme Management Unit



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No. 493/1/1 T. D. Jayath Mawatha, Colombo

☎ General Office: 0112-675820

☎ Program Director: 0112-675821

☎ Office Fax: 0112-675827

@ e-mail: pmdscproject@gmail.com

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 My No

MMDE/MWSIP/PMU/ENV/  
 NWPCP /Gen-Vol. 3

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 Your No

දිනය  
 திகதி  
 Date

23<sup>rd</sup> January 2020

Team Leader  
 PMDSC

### North Western Province Canal Project

### Request PMU Co-operation regarding Urgent Environment Safeguard Aspects

With reference to your letter reference 7.23\_L03621 dated 16/01/2020 on the above subject, the status update is as follows;

#### 1. Technical Note No. 29; File 25.G, dated 23/08/2019 (request for additional ROW):

- The Forest Department (FD) has granted conditional approval to start of construction within the area free of trees by letter reference 5/4/3/1/Wayamba Palata ela Vol 1, dated 31/12/2019, sent by DFO (Mathale) to RFO (Naula) with a copy to PD-PIU (Attachment-1),
- The FD has instructed State Timber Corporation (STC) to remove the 54 trees by letter reference 5/4/3/1/Wayamba Palata Ela Vol 1, dated 08/01/2020, sent by DFO (Mathale) to Regional Manager (Kandy) of STC with a copy to PD-PIU (Attachment-2). This is considered the virtual letter of approval and tree removal will be then coordinated by the PIU in par with the Construction work sequence,
- The letter reference WL/16/2/2/280, dated 09/10/2019 (Attachment-3) has approved setting up of "single fence" as shown in Figure 2.2. (option 1) in page 6 of the technical note.

#### 2. DWC requirements as discussed at the meeting on 23/12/2019:

Please find herewith attached the meeting minutes sent with the DWC letter reference WL/6/1/270-1, dated 16/01/2020 (Attachment-4). The Item reference 01, 02, 03, 07, 08, and 11 to 15 in particular with others as relevant in the minutes describe actions required from the Contractor.

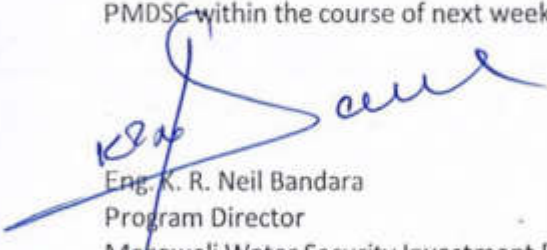
Please accordingly Instruct the RE to guide the Contractor in coordination with PIU to undertake constructions conforming to the regulatory requirements set out in Items 1 and 2 in this letter.

PIU Office Address Telephone No Fax No. e-mail	: Upper Elahera Canal Project (UECP) : Mahaweli Authority of Sri Lanka, : Madatagama. : 025-205 4498 (PD)/ 025 - 205 266 : 025-205 4998 : nccp.mwsip@gmail.com : darwasiri_2000@yahoo.co.uk	PIU Office Address Telephone No Fax No. e-mail	: North Western Province Canal Project (NWP) : Madagalla Road : Kumbukulawa : Polpitiyagama : 037 - 227 3250 (PD) / 037 - 3972642 : 037 - 227 3260 : nwp.p.mwsip@gmail.com : raja9013@yahoo.com	PIU Office Address Telephone No Fax No. e-mail	: Minipe LB Canal Rehabilitation Project (MCRP) : DRE Office : Irrigation Department, : Heselake. : 055 - 225 8977 (PD) : 055 - 225 8977 : mcrp.mwsip@gmail.com : mediwaka.sasanth@yahoo.com
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Furthermore, please note that PMU and PIU will implement the other relevant items including organizing a joint site inspection to identify preparatory requirements for NWPCP-ICB-1 Works as mentioned in the minutes of the DWC meeting.

The PMU/ PIU will also furnish the input details for preparation of SEMR (July to December 2019) to the PMDSC within the course of next week.

  
Eng. K. R. Neil Bandara  
Program Director  
Manaweli Water Security Investment Program

Cc: 1. Project Director, PIU-UECP (KMTC & ICB-1)  
2. Senior Coordinating Engineer (NWPCP) }

For your information and action please

MWSIP - PMDSC	
493, T.B Jayah Mawatha, Colombo 10	
Registered Incoming By:	ASK *
Seen:	Team Leader D. Team leader
Date:	24 JAN 2020
Action By:	APK PILI RKA
Copies to:	
Primary File Location:	7.23
Copy to Files:	25-6

\* Pls. attach scan of letter L03621  
when distributing this - Thy WDC

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මහනුවර

වයඹ පළාත් ඇළ ව්‍යාපෘතිය යටතේ ගස් ඉවත් කිරීම

මහවැලි ජල පුරක්ෂිතතා ආයෝජන වැඩසටහන යටතේ ක්‍රියාත්මක කරනු ලබන වයඹ පළාත් ඇළ සංවර්ධන ව්‍යාපෘතිය යටතේ ඉදිකරනු ලබන යෝජිත ඇළ මාර්ගයේ පවත්වාගෙන යාමට අනුව, වයඹ ඇළ ව්‍යාපෘතිය සඳහා ලබා දී ඇති ප්‍රමාණයට අමතරව අදාළ ක්ෂේත්‍ර මීටර් 5 ක භූමියෙහි ඇළ ඉවුරේ ප්‍රමාණය වැඩිකර ගැනීම සඳහා අවම වශයෙන් මීටර් 54 පමණ අනුමැතියේ කොන්දේසිවලට යටත්ව ඉවත් කිරීමට ගරු පරිසර හා වනජීවී සම්පත් අමාත්‍යාංශයෙන් අනුමැතිය ලබා දී ඇති බව ප්‍රධාන කාර්යාලයෙන් දන්වා ඇත.

02. ඒ අනුව ඉහත භූමියේ මීටර් 54 ව අදාළ ගස් ලබින්නට පෙ සමග අනුමැතිය පවත අතර, එම ගස් ඉවත්කර, ස්කන්ධ හානි වාර්තාව මා වෙත ඉදිරිපත් කිරීමට කුටුසුක කරන ලෙස කාරුණිකව ඉල්ලා සිටිමි.

දිනා වන නිලධාරී

මාතලේ

අමාත්‍ය ඩබ්ලිව් රෝරන්

දිනා වන නිලධාරී

මාතලේ.

පිටපත

1. ව්‍යාපෘති අධ්‍යක්ෂ

වයඹ පළාත් ඇළ ව්‍යාපෘතිය

මහවැලි ජල පුරක්ෂිතතා ආයෝජන වැඩසටහන

මඩගල්ල සාර

කුලීකලාව

සොල්පිතිගම

- කාරුණික දැන ගැනීම සඳහා

2. අඩවි වන නිලධාරී

කාලල

- දැන ගැනීමට හා අවශ්‍ය කටයුතු සඳහා





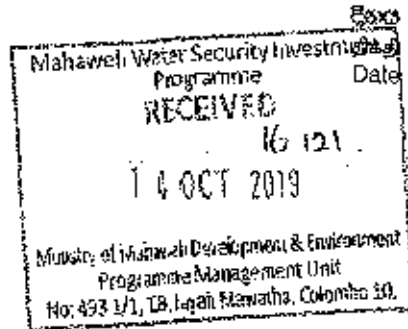
**වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව**  
**வனசீவராசிகள் பாதுகாப்புத் திணைக்களம்**  
**DEPARTMENT OF WILDLIFE CONSERVATION**  
 ප්‍රධාන කාර්යාලය - අංක 811 - ඒ, ජයන්තිපුර පාර, වත්තරමුල්ල 10120  
 பிரதான அலுவலகம், இல. 811 - ஏ, ஜயந்திபுர வீதி, பத்தரமுல்லை 10120  
 Head Office - No. 811 - A, Jayanthipura Road, Battaramulla 10120



මගේ අංකය  
எனது இல.  
My No.

WL/16/2/280

ඔබේ අංකය  
உமது இல.  
Your No.



2019.10. 09


Program Director

Mahaweli Water Security Investment Program

Consent for Animal Protection Fencing Arrangement along the Construction Site from Ch 18+503 to 19+650 km North Western Province Project (NWPCP), Mahaweli Water Security Investment Program (MWSIP)

This refers to your letter dated No- MMDE/MWSIP/PMU/LNV/NWPCP/Gen-Vol 2 and dated on 28/08/2019 on the above matter.

Considering activities and purpose of putting fence along the construction site, combination of single fence for elephants and small animals is recommended.

  
 Majula Amararatna  
 Director (Operation)

Signed- M.G.C.Sooriyabandara  
 Director General of Wildlife Conservation



වයඹ පළාත් ඇළ ව්‍යාපෘතිය  
වයඹ පළාත් ඇළ ව්‍යාපෘතිය සම්බන්ධව පාන තැබී ඇති ගාවව පිළිබඳ  
රැස්වීම් වාර්තාව

දිනය - 2019.12.23

ස්ථානය- වනජීවී සංරක්ෂණ දෙපාර්තමේන්තු ප්‍රධාන ඉවැණාගාරය

පැමිණීම -

1. වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව

- |      |                           |   |
|------|---------------------------|---|
| I.   | මංජුල අමරරත්න මහතා        | -අධ්‍යක්ෂ (මෙහෙයුම්)                            |
| II.  | ආරන්ද්‍ර ගමගේ මහතා        | -සහකාර අධ්‍යක්ෂ (ඒ.ස.ක)                         |
| III. | සු.එල්.කවුරික් මහතා       | - නියෝජ්‍ය අධ්‍යක්ෂ (අලි සංරක්ෂණ)               |
| IV.  | පියල් රවින්ද්‍ර මහතා      | - වනජීවී අඛණ්ඩ ආරක්ෂක (වයඹ පළාත් කලාප කාර්යාලය) |
| V.   | සමිත්‍ය විජේතුංග මහතා     | - වනජීවී අඛණ්ඩ ආරක්ෂක (හේරත්ගම)                 |
| VI.  | ඩී.එම්.සාමිණි බණ්ඩාර මහතා | - වනජීවී අඛණ්ඩ ආරක්ෂක                           |
| VII. | ශිෂානි රාජපක්ෂ මිය        | - සංවර්ධන නිලධාරී                               |

2. මහවැලි පළාත් පුරක්ෂිතතා ආයෝජන වැඩසටහන

- |       |                                      |   |
|-------|--------------------------------------|---|
| I.    | පී.මුණිලේ මහතා- පරිසර විශේෂඥ නිලධාරී | - මහවැලි පළාත් පුරක්ෂිතතා ආයෝජන වැඩසටහන   |
| II.   | ඒ.එම්.සුමනසේන මහතා                   | - රාජ්‍ය සම්බන්ධීකාරක - ම.ජ.ප්‍ර.ආ.වැ (වනජීවී කළමනාකරණ සැලැස්ම ක්‍රියාත්මක කිරීම) |
| III.  | එම්.එච්. වික්‍රමසේන මහතා             | - වනජීවී කළමනාකරණ සැලැස්ම ක්‍රියාත්මක කිරීමේ නිලධාරී                              |
| IV.   | රවී කොඩිකාර ආරච්චි මහතා              | - තේවාසික ඉංජිනේරු  |
| V.    | නලින්ද පීරිස් මහතා                   | - EMS   |
| VI.   | අනුෂා කාසිගේ මහත්මිය                 | - පරිසර විශේෂඥ නිලධාරී  |
| VII.  | ඒ.එම්.ආර්.ඒ. සෙරේරා මහතා             | - ව්‍යාපෘතිය  |
| VIII. | වන්ග් ම මන් - PM                     | - CSCEC   |
| IX.   | ලී විශ්වසේන - PPM                    | - CSCEC   |
| X.    | බුද්ධික කසුන්මහතා                    | - කළමනාකරණ සහකාර  |
| XI.   | මධුසානි රණසිංහ මිය                   | - කළමනාකරණ සහකාර  |

- වයඹ පළාත් ඇළ ව්‍යාපෘතිය  
 - වැඩසටහන් කළමනාකරණ, සැලසුම්කරණ හා අධීක්ෂණ උපදේශනය (PMDSC)  
 - PMDSC  
 - වයඹ පළාත් ඇළ ව්‍යාපෘතිය

- ම.ජ.ප්‍ර.ආ.වැ.  
 - ම.ජ.ප්‍ර.ආ.වැ.

රැස්වීම් සටහන -

ප්‍රථමයෙන්, පැමිණ සිටි සියළු දෙනා අධ්‍යක්ෂ (මෙහෙයුම්) මංජුල අමරරත්න මහතා විසින් පිළිගන්නා ලද අතර වයඹ පළාත් ඇළ ව්‍යාපෘතිය සම්බන්ධයෙන් කමිටුව විසින් යාකඩ්‍යා කරන ලදී. අනතුරුව පැමිණ සිටි පිරිස හඳුන්වාදුන් අතර වයඹ පළාත් ඇළ- අදියර 1 කොටසේ ඉදිකිරීමේ ප්‍රගතිය සහ යාකඩ්‍යාකල යුතු කරුණු, ව්‍යාපෘතියේ ජ්‍යෙෂ්ඨ පරිසර නිලධාරීවරයා විසින් විද්‍යුත් මාධ්‍යයෙන් කමිටුවට ඉදිරිපත්කරන ලදී.

02. ඒ අනුව කමිටුව විසින් පහත තීරණ ගන්නා ලදී.

අනු අංකය	යෝජනාව	ඉදිරිපත් කළ ආයතනය	තීරණය	ක්‍රියාත්මක කළ යුතු ආයතනය
01	දූමිමිය සිට කලුගල දක්වා ස්ථාන තුනකින් විදුලි වැට්ටිවල කර ඇති අතර එම මුරකුටි සහ මුරකුටිවත් සඳහා ජලය, විදුලිය සහ සනීපාරක්ෂක අවශ්‍යතා සැපයිය යුතුය.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	විදුලි වැට්ටි විවෘත කර ඇති ස්ථාන තුනෙන් එක් ස්ථානයක (ගේට්ටු අංක 03) පමණක් ස්ථිර ලෙස සනීපාරක්ෂක පහසුකම්, ජලය සහ විදුලිය ලබා දේ.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
02	ස්ථිර දීර්ඝකාලීනව පවත්වාගෙන යනු ලබන මුරකුටිය සඳහා ඉදිකළ සනීපාරක්ෂක පහසුකම් වනජීවී නිලධාරීන්ටද භාවිතා කළ හැකි ආකාරයට සැකසීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	ස්ථිරව සකසන ලද මුරකුටිය සහ සනීපාරක්ෂක පහසුකම් ව්‍යාපෘතිය අවසන් වීමෙන් පසුව වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව වෙත පවරනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
03	1 සහ 2 මුරකුටි සඳහා ද මුරකුටි පවත්වාගෙන යනතුරු අවශ්‍ය පහසුකම් ලබා දීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	1 සහ 2 මුරකුටි පෞද්ගලික ඉඩම් වල පිහිටා ඇති අතර ඒවා සඳහා ද මුරකුටි පවත්වාගෙන යනතුරු ජලය සහ විදුලිය ලබා දේ. ස්ථිර මුරකුටි නොවන නිසා කාඩ්කාලීන සනීපාරක්ෂක පහසුකම් ලබාදෙනු ඇත.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
04	වනජීවී නිලධාරීන් විසින් ව්‍යාපෘති නිරීක්ෂණ කටයුතු සිදුකළ යුතු නිසා ඒ සඳහා ප්‍රවාහන පහසුකම්ලෙස් ඉන්ධන සමඟ යතුරුපැදි 2ක් සහ වාහනයක් ව්‍යාපෘතියෙන් ලබාදීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වනජීවී නිලධාරීන්ගේ නිරීක්ෂණ කටයුතු අත්‍යාවශ්‍ය වන නිසා කඩිනමින් අවශ්‍ය පහසුකම් (යතුරුපැදි 2ක්) ලබා දීමට කටයුතු කිරීමට එකඟ විය.	ම.ජ.ප්‍ර.ආ. වැඩසටහන /වයඹ පළාත් ඇළ ව්‍යාපෘතිය
05	ප්‍රවාහන කටයුතු සඳහා ඉන්ධන.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	අවශ්‍ය ඉන්ධන ප්‍රමාණය, දින ගණන, පුද්ගලයින් ගණන ආදී විස්තර ව්‍යාපෘතිය වෙත දෙපාර්තමේන්තුවෙන් ලබා දීමෙන් අනතුරුව අවශ්‍ය කටයුතු සලසයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය



06	වනජීවී නිලධාරීන්ගේ දෛනික රාජකාරී වලට අමතරව සිදුකරනු ලබන ව්‍යාපෘති කටයුතු සඳහා දීමනාවක් ලබාදීම අවශ්‍ය බව වනජීවී නිලධාරීන් විසින් නිරීක්ෂණ කටයුතු සිදු කිරීමේදී කාලසටහනකට අනුව එම කිරීක්ෂණ කටයුතු සිදුකරනු ඇත.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	අධිවි ආරක්ෂකවරු දිනපතා නිලධාරීන් වෙත් වෙත් වශයෙන් ද දර්ශන භාරකරු සතියකට දෙවරක් ලෙස ව්‍යාපෘති නිරීක්ෂණ කටයුතු සිදුකිරීමේ හැලැස්මක් ව්‍යාපෘතිය වෙත දෙපාර්තමේන්තුව මගින් ඉදිරිපත්කරනු ඇත. ඒ අනුව ප්‍රතිපාදන ව්‍යාපෘතිය මගින් සම්පාදනය කිරීමට එකඟ විය.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය/ වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව
07	විදුලි වැටේ ආරක්ෂාව සඳහා අමතර නිලධාරීන් ලබාගැනීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	දැනට ආරක්ෂාව සඳහා (මුරකුටි 3 සඳහා දෙදෙනා බැගින් 6 දෙනෙකු) දිවු රාත්‍රී සේවයේ යොදවා ඇති නිලධාරීන්ට අමතරව අවශ්‍යතාවය මත තව සේවකයින් බඳවා ගනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය.
08	ඉදිකිරීම් කටයුතු වල යෙදෙන පිරිස් වල ආරක්ෂාවට තව පිරිස් කඩිනමින් බඳවාගැනීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	සේවකයින් 4 දෙනෙකු ස්ථාන දෙකට (තේරත්ගම සහ පිඬුනුගම) ලබා දේ. වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ නිර්දේශ මත කඩිනමින් පළමුව නිලධාරීන් දෙදෙනෙක් පිඬුනුගම සඳහා බඳවා ගනු ලබන අතර අනෙක් දෙදෙනා පසුව බඳවාගනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය.
I	සේවකයින් 4 දෙනා ප්‍රමාණවත් නොවුණහොත් තවත් නිලධාරීන් ආරක්ෂක කටයුතු සඳහා බඳවා ගැනීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	අවශ්‍යතාවය මත ආරක්ෂක නිලධාරීන් වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ නිර්දේශ මත ඉදිරියේදී බඳවා ගනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය.
II	රාත්‍රී කාලයේදී විවෘතව ඇති ස්ථාන 3හි මුරකරුවන් ඉවත් කර ගේට්ටු වසාදමන්න. (වයඹ පළාත් ඇළ ව්‍යාපෘතියේ II කොටස - Phase number II)	කොන්ත්‍රාත් ආයතනය (China Estate Ltd)	ආරක්ෂකයින් ඉවත්කලහොත්, මාර්ගයක් ඉදිකර ඇති නිසා ස්ථිර ගේට්ටුවක් තිබුණද වන අපරාධ හා අලි සංචරණය සිදුවීමේ දැඩි අවදානමක් ඇත. එහිනිසා ගේට්ටු සඳහා දිවු-රාත්‍රී පුරා මුරකරුවන් යෙදවීම අවශ්‍ය වේ.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව සහ වයඹ පළාත් ඇළ ව්‍යාපෘතිය
09	දූෂිතය හිට කණල දක්වා විදුලි වැට ඉදිකිරීම කඩිනම කිරීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	මේ වන විට අවශ්‍ය මුදල් නිදහස් කර ගැනීම සඳහා කටයුතු සිදු කරමින් පවතින අතර අරමුදල් ලද වහාම	වයඹ පළාත් ඇළ ව්‍යාපෘතිය

			පළමු කාර්තුවේදී වැඩ කරමින් කිරීමට සූදානම්ව ඇත.	
10	භූමියේ පිහිටීමත් පමණ වියදම් වැට අමාත්‍යවරයාට ඉදි කිරීම අපහසු විය හැකිය.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	එම අපහසුතාවයන් නිසා අධිකරණ 2 ක් ලෙස වියදම් වැට ඉදි කරයි.	වයඹ පළාත් ඇළ විභාජන
11	අභයභූමිය කුළු පිදු කිරීමෙන් වැළැක්විය යුතු ක්‍රියා සහ අවධාන සහිත නම් පුවරු හා දැන්වීම් ප්‍රදර්ශනය කිරීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ නිර්දේශ මත අදාළ කටයුතු කඩිනමින් සම්පූර්ණ කරනු ලබයි.	වයඹ පළාත් ඇළ විභාජන
12	අභයභූමිය ආශ්‍රිතව ගැවසීමේදී සහ භූමියට ඇතුළත්වීමේදී ඉදිකිරීම් සේවකයින් විසින් හැඳුනුම්පත් පැළඳිය යුතු අතර වාහන වලද හඳුනාගැනීම සඳහා විභාජන නාමය ප්‍රදර්ශනය කිරීම අනිවාර්යයි.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	දැනටත් පුද්ගලයින් හැඳුනුම්පත් ගාවනා කරන අතර එය විධිමත් කර වාහන සඳහා ද ක්‍රියාත්මක කිරීමට එකඟ විය. ඒ අනුව වාහන හා පුද්ගලයින්ගේ ලේඛණ, දෙපාර්තමේන්තුවට ඉදිරිපත් කරනු ඇත.	කොත්තාස් ආයතනය සහ වයඹ පළාත් ඇළ විභාජන
13	අභයභූමි වල නිති ඇතුළත් දැන්වීම් පුවරු හෝ නාමපුවරු ආදිය විනාශයට පත්වීම ප්‍රදර්ශනය කිරීම. (විනාශයට පත්වීමට දැනුවත් කිරීම සඳහා).	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ උපදෙස් පරිදි කටයුතු සිදු කරනු ලබයි.	වයඹ පළාත් ඇළ විභාජන
14	අභයභූමිය ආශ්‍රිතව ගැවසීමේදී පුද්ගලයින්ට විසින් හැඳුනුම්පත් සෑදීම මොහොතකම පැළඳ සිටිය යුතුයි.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	එලෙසම ක්‍රියාත්මක වීමට කටයුතු සලසනු ඇත.	කොත්තාස් ආයතනය සහ වයඹ පළාත් ඇළ විභාජන
15	කසල හා ඉදිකිරීමේ අපද්‍රව්‍ය හැර යාකමය සුන්බුන් අභයභූමිය තුළම, අනුමත ස්ථානයක ගොඩනැගීමට කටයුතු යෙදීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වනජීවී නිලධාරීන් මීට ප්‍රථම එම උපදෙස් ලබා දී තිබූ බැවින් එලෙසින්ම ඉදිරියට සිදුකිරීමට එකඟ විය.	කොත්තාස් ආයතනය/ වයඹ පළාත් ඇළ විභාජන
I	පොලිතින් ඇතුළත්ව පියලිපිටිතින් රැගෙන යන ද්‍රව්‍ය නිසි ක්‍රමවේදයන්ට අනුව අභයභූමියෙන් පිටතට බැහැර කිරීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	සුන්බුන් අතරින් පස් ස්ථර ආදිය (උදා: ඉහළ පස් ස්ථරය -Top soil) නිසි පරිදි නැවත අභයභූමිට එක් කරනු ලබන අතර යාකමය කොටස් දිරාපත් වීමට සලසයි. නොදිරිද්‍රව්‍ය නිසි පරිදි ඉවත් කරයි.	කොත්තාස් ආයතනය
II	සුන්බුන් කිසිදු ලෙසකින් ජල මූලාශ්‍ර වලට බැහැර නොකළ යුතුයි.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	එලෙසින්ම කටයුතු කරනු ඇත.	වයඹ පළාත් ඇළ විභාජන

16	දායියානු සංවර්ධන බැංකුවට අනුව සුන්බුන් අභයගුමයේ බැහැර කිරීම හෝ බැහැර කරන ස්ථාන පවත්වාගෙන යාමෙන් හැකි බව.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	වයඹ පළාත් ඇළ ව්‍යාපෘතිය විසින් ඉල්ලීම් ලිපියක් දුන්විට අවසර ලිපියක් වනවිට සංරක්ෂණ දෙපාර්තමේන්තුව විසින් ලබා දෙනු ලබයි.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව
17	වයඹ පළාත් ඇළ ව්‍යාපෘතියේ ඇළ මාර්ගය ඉදි කිරීමට ගෝරිකා ගුම් ප්‍රදේශයේ පොද්ගලික ඉඩම් පිහිටා ඇත.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	පොද්ගලික ඉඩම් රක්ෂිත ප්‍රදේශ තුළ නිශ්චය හැකිය.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව
18	ජයගුම් ඔප්පු වල වළංඳුභාවය ඉහළ නිසා ඉඩම්හිමී පිරිස් පිළිබඳ ගැටලු නිරාකරණය කරදෙන ලෙස දෙපාර්තමේන්තුවෙන් ඉල්ලා සිටීම.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	මෙය කඩිනමින් නිරාකරණය කරගත යුතු හෙයින්, ව්‍යාපෘතිය මගින් අදාළ ප්‍රාදේශීය ලේකම් හා මිනින්දෝරු දෙපාර්තමේන්තුව සමග ඒකාබද්ධව කටයුතු කරන ලෙසත් ව.ජී.ගා.දෙ. අවශ්‍ය විටකදී සහය ලබාදිය හැකි බවටත් ප්‍රකාශ කෙරිණි; ඒ අනුව ව්‍යාපෘතිය මගින් දෙපාර්තමේන්තුවට මුදාහළ රක්ෂිතයේ ඇති පුද්ගලික ඉඩම් ගැටලුව නිරාකරණය කිරීමේ කටයුතු ඉදිරියට කරගෙන යාමට තීරණය විය (ඒවා අත්පත් කර ගැනීම මගින්).	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
19	වනජීවී කළමනාකරණ සැලැස්ම යටතේ වාසස්ථාන සුරෝප්ත කටයුතු වයඹ පළාත් ඇළ ව්‍යාපෘතියේ පළමු අධියරයේ (ICB - I) වාසස්ථාන සුරෝප්ත කටයුතු වන සංරක්ෂණ දෙපාර්තමේන්තුව විසින් කකස් කර ඇත. (හෙක්ටයාර් 77)	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	හමුත් වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව සතු ඉඩම් වල වාසස්ථාන සුරෝප්ත කටයුතු වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ අධීක්ෂණය සහ උපදෙස් මත සිදුවීම අනිවාර්ය වේ.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව  වයඹ පළාත් ඇළ ව්‍යාපෘතිය
I	මේ වන විට ඇතැම් ස්ථානයන්හි තේක්ක ගස් ඉවත් කිරීම වන සංරක්ෂණ දෙපාර්තමේන්තුව විසින් පිළි කරගෙන යනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	ඉවත් කිරීම ගැටලුසහගත නැත.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය සහ වන සංරක්ෂණ දෙපාර්තමේන්තුව
II	වන සංරක්ෂණ දෙපාර්තමේන්තුව තේක්ක ගස් සම්පූර්ණයෙන්ම මුල් සමග ඉවත් නොකරයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	තේක්ක ගස් ඉවත්කළ ප්‍රදේශ වල නැවත තේක්ක ගස් පිටුවීම නොකිරීම. වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව සතු ඉඩම් වල නැවත තේක්ක පැළ සිටවීම ද අවශ්‍ය නොවේ.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව

III	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව සතු ඉඩම් වල වාසස්ථාන සුලෝඡණ කටයුතු සිදු කිරීමේදී ආක්‍රමණශීලී ශාක (invasive) ඉවත් කිරීම සහ අභිරුක්ෂිත දේශීය ශාක (native) සිටුවීම සිදු කරන්න.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	අභිනතර ආක්‍රමණශීලී ශාක (invasive- eg: Lantana) ඉවත් කර එම භූමි ප්‍රදේශ තණබිම් (Grassland) බවට පත් කරයි. එමෙන්ම වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව සතු ඉඩම් වල වාසස්ථාන සුලෝඡණ කටයුතු වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ උපදෙස් මත සිදු කිරීම.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
20	වාසස්ථාන සුලෝඡණ කටයුතු වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ අධීක්ෂණය යටතේ සිදු වුවද වනජීවී නිලධාරීන්ට ආක්‍රමණශීලී ශාක හැළවීම ආදිය සිදු කළ නොහැකිය.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වාසස්ථාන සුලෝඡණ කටයුතු වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ අධීක්ෂණය යටතේ ව්‍යාපෘතිය විසින් සිදු කළ යුතුය.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
21	බල ප්‍රදේශය තුළ ජාතික ආදිය ව්‍යාප්තිය වැඩි වී ඇති බව හඳුනාගෙන තිබේ.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	ඒ පිළිබඳව අවධානය යොමු කරනු ලබන ලෙස වැඩෙන ජාති ශාක ඉවත් කළ යුතුය.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය සහ වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව
22	වයඹ පළාත් ඇළ ව්‍යාපෘති ප්‍රදේශයේ සහ ඉහළ ඇළහැර ව්‍යාපෘති ප්‍රදේශයේ අලින් (01ක් සඳහා කරපටි (Elephant collars) දැමීමට තීරණය කර ඇත.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	මාරුවුම් විශ්ලේෂණය සමඟ එක්ව අවම මුදලකට සෑදිය හැකි කරපටි 2ක් දැනට පරීක්ෂා කිරීමට කටයුතු කරමින් පවතී.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
23	විශ්වවිද්‍යාලය සමඟ එක්ව අවම මුදලකට සෑදිය හැකි වුවත් කප්පාකෑම්කාරී හා ක්‍රියාකාරීත්වය පිළිබඳව සැලකිලිමත් වන්න.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	පළමුව සිදු කරනු ලබන්නේ පරීක්ෂාවක් පමණි. එය ව.ජී.සං.දෙ. නිලධාරීන් සමත්වන කමිටුවක අධීක්ෂණ යටතේ සිදුකෙරේ. එහි සාර්ථක හෝ අසාර්ථක බව මත ඉදිරියටත් එම කරපටි තවදුරටත් භාවිතය පිළිබඳව තීරණය කරනු ලබයි.	ම.ජ.සු.ආ. වැ
24	වයඹ පළාත් ඇළ ව්‍යාපෘතියේ පළමු අධියරයේ (ICB - I) කටයුතු වසර මැද ආරම්භ කිරීමට තීරණය කර ඇත.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය	මහකිතුල සහ මහකිරුළ ආදී වනාන්තර ප්‍රදේශ වල ක්‍රියාත්මක වේ.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
25	පළමු අධියරයේ කටයුතු සිදු කිරීමේදී, සියලුම මාර්ග භාවිතයට ඉඩ දිය නොහැකිය.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	මාර්ග භාවිතයේදී ඇතුළුවීම සිදුකළ ස්ථානයෙන්ම පිටවීම සිදුකළ යුතු අතර මාර්ග සුදුසු පරිදි රක්ෂිත භූමි සහ සතුන්ට හානි නොවන	වයඹ පළාත් ඇළ ව්‍යාපෘතිය



			ලෙස භාවිතයට සිදු කළ ලෙස යනාන්තර හඟ යුතුයි	
26	මාර්ග කීරණය කිරීමේදී සංවේදී කලාප ඇතුළත් කර නොගැනීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවේ උපදෙස් පරිදි කටයුතු සිදුසිදුකරන ලෙස, ඊට අදාලව ව.ජී.සං. දෙපාර්තමේන්තුවේ නිර්දේශ මත පිවිසුම් මාර්ග හඳුනාගෙන ඒවා සහ අවශ්‍ය අතින් යටිතල පහසුකම්ද, ඉදිකිරීම යනාන්තර ඇස්තමේන්තුගත කර ඇත. පිවිසුම් මාර්ග, එවකට පැවති යහල්ල-පල්ලෙකුලේ “ජාතික උද්‍යාන” වැඩසටහනට යමපාතව තැරුණුම් කරන ලද්දකි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
27	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුවට ලබා දීමට නියමිත ගොඩනැගිලි පහසුකම් (උදා: තේරුන්ගම) සහ කාර්යාලීය උපකරණ ලබා දීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	එකඟ වූ පරිදි අවශ්‍යතා සැපයීම සිදු කරනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය
28	කලාප කාර්යාලය සඳහා කළමනාකාර සහකාරවරයෙකු ලබා දීම.	වනජීවී සංරක්ෂණ දෙපාර්තමේන්තුව	පෙර ලබා දී සිටි පිරිස් ඉවත්ව ගිය නිසා ඉදිරියේදී තෙතනකු ලබා දීමට කටයුතු සලසනු ලබයි.	වයඹ පළාත් ඇළ ව්‍යාපෘතිය

## PROGRAM MANAGEMENT, DESIGN AND SUPERVISION CONSULTANT

Joint Venture Tractebel Engineering GmbH - Geconstrukt ZT GmbH  
c/o Tractebel Engineering GmbH, No. 493, T.B. Jayah Mawatha, Colombo 10, Sri Lanka

## MAHAWELI WATER SECURITY INVESTMENT PROGRAM

Registered Outgoing by :	ASIC
Team Leader :	MRC
Sent Date :	16 JAN 2020
Copies to :	APK RKA HMB ROE KRU

Eng. K.R. Neil Bandara

Program Director

Program Management Unit (MW/SIP)

No. 493/1/1, T.B. Jayah Mawatha

Colombo 10, Sri Lanka

Our ref.: 7.23\_L03621

Date: 16 January 2020

## Subject: Request PMU Co-operation regarding Urgent Environment Safeguard Aspects

Dear Sir,

Several key environment safeguard aspects must be completed by the end of January 2020, which require the co-operation of PMU /PIU in providing relevant details and approvals as per the details given below.

1.	DWC approval for the addendum to EIA NWPCP ICB 2-Our Ref.25.6_L03226	<ul style="list-style-type: none"> <li>Technical Note (TN) submitted to PMU (Ref. L 25.6_L03226 on 23.08.19)</li> <li>Response letter from Ministry of Environment and Wildlife (MMDE/06/FR/07/43/TF dated as 17.12.19) permit to remove 54 trees</li> <li>Letter from DWC (Ref. WU/16/2/2/280 dated as 09.10.19) DWC recommends combination of single fence and Elephant fence as per the Option 1 (Annex 1) described in our TN</li> <li>Request PMU to send an official response on the above letter (Ref.25.6_L03226) related to the additional RoW, as the response from DWC/FD on the above is not clearly issued.</li> <li>We are waiting to receive an official consent to direct the contractor (CSCEC) to start relevant work</li> </ul>
2.	Based on the DWC requirements highlighted at the meeting held on 23.12.19 at the DWC head office	<ul style="list-style-type: none"> <li>Pls send us the official confirmation and the meeting minutes to act on following requirements as highlighted by DWC:               <ul style="list-style-type: none"> <li>(a) Night-time security personnel in the 3 gates is a compulsory requirement for the DWC to ensure the safety of the wildlife and the protected area, as the easy access to the DWC area is opened for project activities. Hence Variation Order (VO) to be issued to the contractor related to the payments for the night-time security personnel</li> <li>(b) Security huts No. 1 and No 2 to provide basic facilities solar/electricity, drinking water and latrine for the construction period, although these 2 huts are constructed on a temporary basis. Hence, Engineer to issue a separate Variation Order (VO) to provide those facilities to the DWC through the Contractor</li> <li>(c) DWC requested 2 additional wildlife officers (for Pibudunagama and Herathgama areas) for the Project under the supervision of DWC due to inadequate staff in the DWC to attend to project activities and continuous monitoring. The 2 officers will be recruited under the Project, selected by DWC, report to Wildlife Range office Herathgama and stay in site. The 2 officers shall be used for NWPCP-ICB-1 work as well. Hence, PMU's decision and notification to PMDSC is required regarding the financial arrangements for the salaries of the 2 new officers. If it is recommended through the Contractor, PMU can request PMDSC to issue a separate Contract Variation to the Contractor</li> </ul> </li> </ul>
3.	A joint visit to be arranged by PMU with DWC, the Consultant	<ul style="list-style-type: none"> <li>Refer to notes of the meeting held on 23 December 2019 with DWC. This needs to be expedited to understand the relevant</li> </ul>

	and PIU to understand the NWPCP-ICB-1 site requirements, access roads, fencing arrangements etc. needed for the NWPCP-ICB-1 construction work.	preparatory work prior to mobilizing the NWPCP-ICB-1 Contractor
4.	Relevant Information from PMU/PIU to complete the SAEMR for NWPCP and UECP	<ul style="list-style-type: none"> <li>(a) PMU is requested to share relevant information on the following aspects for inclusion in the SAEMR for the period from July to Dec 2019.</li> <li>(b) Qualitative monitoring data related to tunnels</li> <li>(c) Updated corrective action plan for the KMTC Beligoda Forest incident</li> <li>(d) Details related to the activities done to comply with EIA/CEA requirements / conditions</li> <li>(e) Records on disclosure of monitoring information to affected communities;</li> <li>(f) Grievances from affected people, or recommendations for improvement;</li> <li>(g) Proposed items of focus for the next reporting period and due date</li> </ul>

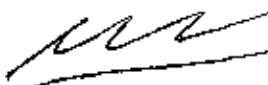
Your co-operation on completing these activities will be highly appreciated.

With thanks in advance.

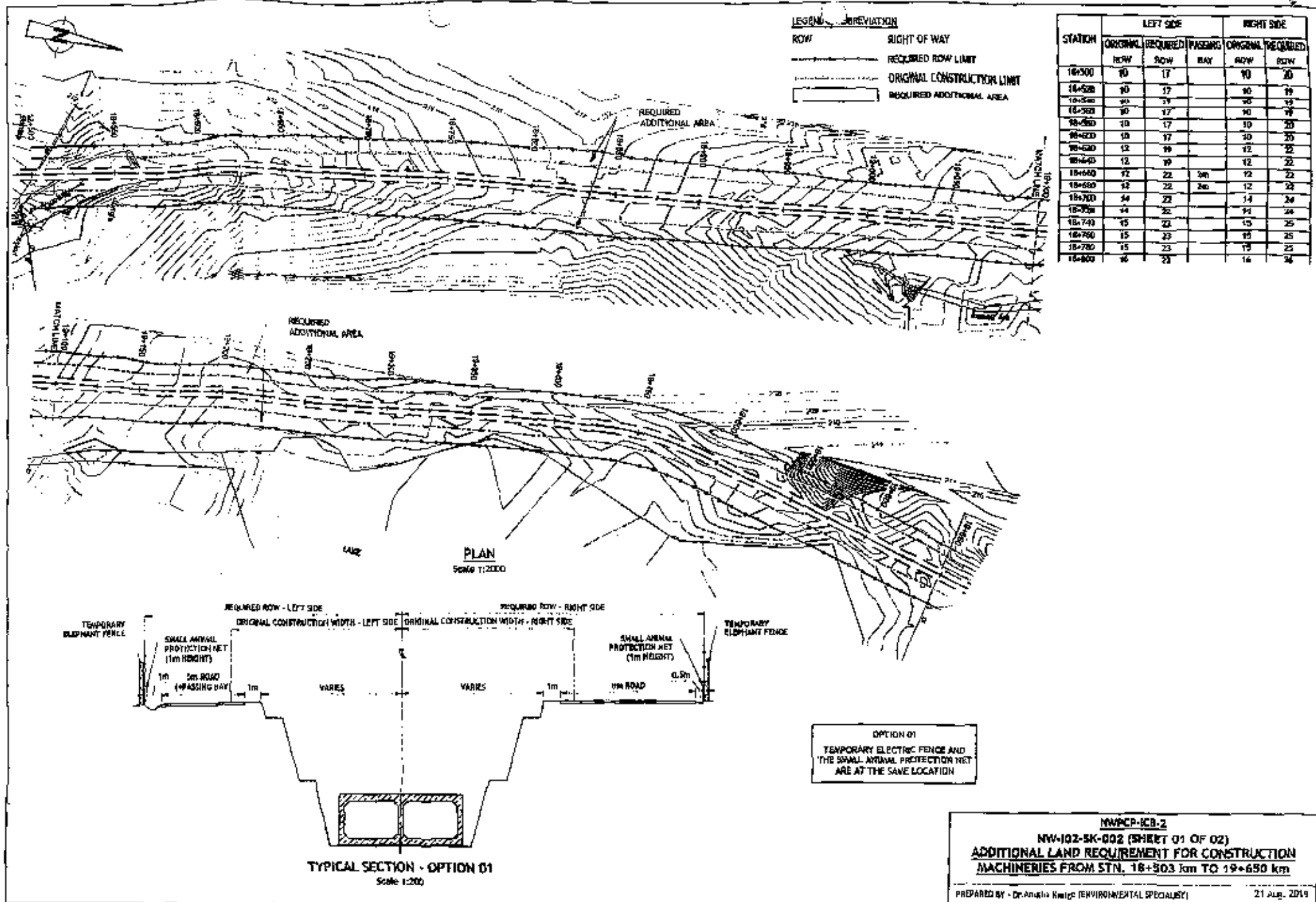
Yours sincerely,

Program Management, Design and Supervision Consultant

  
Michael Chegwin  
Team Leader

  
P.W.C. Dayaratne  
Deputy Team Leader

Encl.: -





## **Annex 2:**

### **Groundwater level report NWPCP-ICB-2 area**



中國建築股份有限公司(17公里水渠項目)  
CHINA STATE CONSTRUCTION ENGRG. CORP. LTD

Date: 06<sup>th</sup> September 2019

Our Ref. No. CSCEC - ICB2 - PMDSC-<sup>554</sup>-2019

Mr. Ravi Kodikara Arachchi  
Resident Engineer  
RE Office NWPCP ICB-2  
#A1 & A2, Jayantha Kumarasiri  
Kalahakele, Galewela  
Sri Lanka

**Construction of Main Canal from Nebadagahawatta to Mahakithula Reservoir Inlet  
Tunnel (from 5+250km to 22+300km)- NWPCP – ICB - 2**  
**Contract No : MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003**

**Sub: Submission of well water monitoring report**

Dear Sir,

We herewith submit the report of the well water monitoring. The joint monitoring work was done on 02.09.2019.

Yours Faithfully,

Mr. Tang Aimin  
Project Manager

Construction of Main Canal from Nebadagahawatta to Mahakithula Reservoir Inlet  
Tunnel (from 5+250 km to 22+300 km)  
China State Construction Engineering Corporation Ltd.

CC- Mr. Eng. G.M.R.A. Perera (Project Director - NWPC Project)  
Mr. Lutz.Roemer (Chief Resident Engineer - PMDSC)  
Dr. Anusha Kasige, Environmental Specialist, PMDSC

Democratic Socialist Republic of Sri Lanka

Ministry of Mahaweli Development and Environment

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## **Mahaweli Water Security Investment Program Management, Design and Supervision Consultant**

Main Canal from Nabadagahawatta to Mahakithula Reservoir (5+250 to 22+500km )

Environmental Monitoring Report No. 02

Contract Number : MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003

Date - 02<sup>nd</sup> September 2019



ENGINEERING  
CONSULTANTS (PVT.)  
LIMITED

**NIRÁS**

**16+900 – 18+500 km Ground Water Monitoring Report, NWPC-ICB-2**

**Prepared for:**

Ministry of Mahaweli Development and Environment  
 Mahaweli Water Security Program  
 Program Management Unit  
 No. 493 1/1, T.B. Jayah Mawatha  
 Colombo 10  
 Sri Lanka

**Prepared by:**

Chaina State Construction Engineering Corporation,  
 240/a,  
 Puwakpitiya,  
 Galewale.

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	September 2019	A.H.A. Dissanayake	HCE	Mr. Hun	Mr.Tang Aimin	



## Groundwater Monitoring Report, Nilagama Tunnel. NWPC-ICB-2-Selected wells

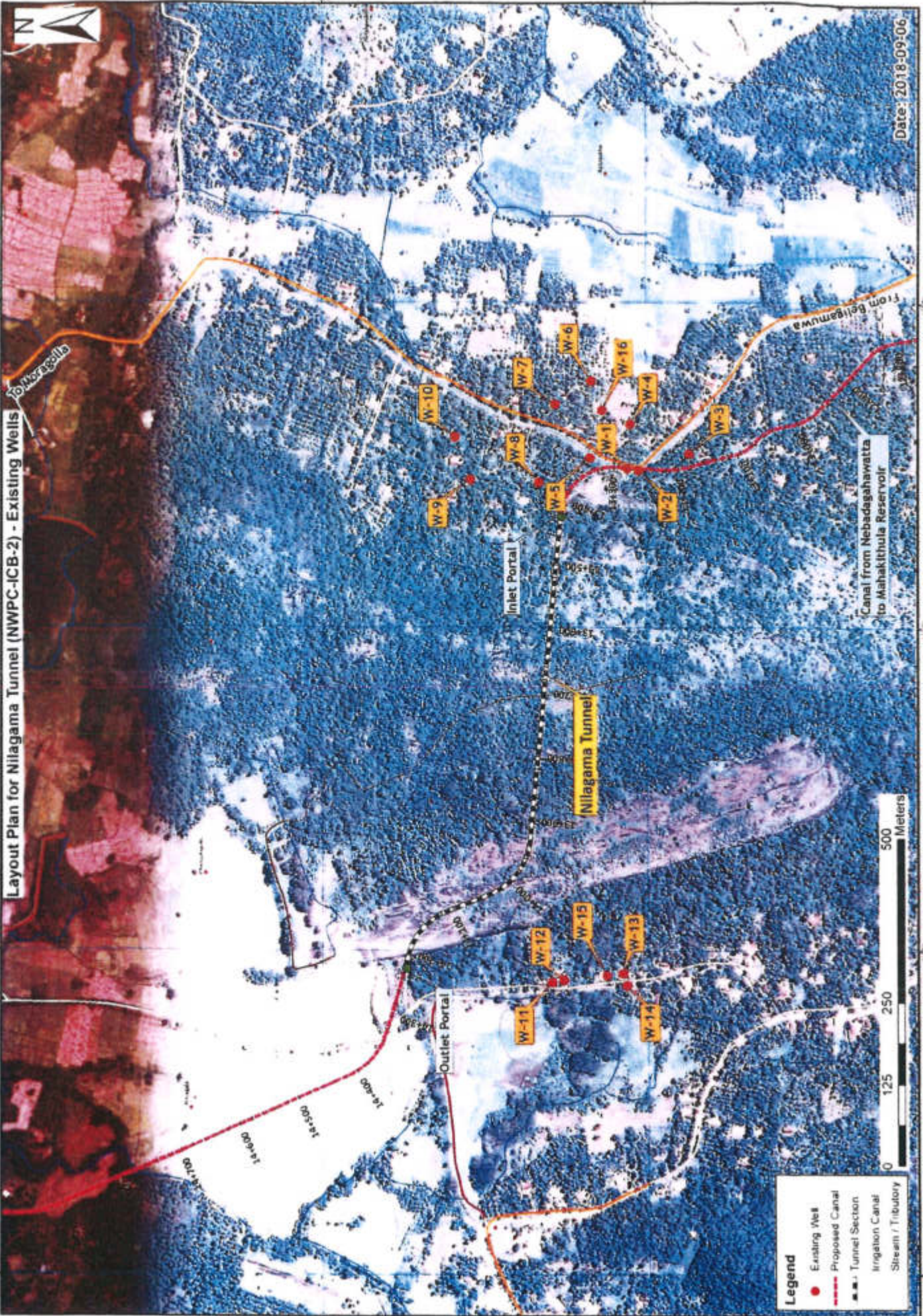
Well No.	Name of Owner	Address	Location		Type of Well	Depth of well (from Guard wall top / Ground level to Sill level) [m]
			N	E		
NW-1	Common Well (Gal Linda)	Katupotha	585,031	473,747	10'-1"x6"1" size rectangular well, Rubble work inside; Brick work Guard wall	0.5
NW-2	Mr. H.H.. Vijitha Hettiarachchi	Katupotha, Bambaragaswewa	585,014	473,744	4'- 8" Ø, Circular well; Hume pipes inside	9.4
NW-5	Mrs. H.w. Malani Dissanayake (Inlet portal land)	Liyanapotha, Beligamuwa, Galewela	585,088	473,763	6'-0" Ø, Circular well; Rubble work inside, Cement rendered Guard wall	8.8
NW-11	Mr. Senavirathna	Andagala, Bambaragaswewa	585,149	472,951	4'- 3" Ø, Circular well; Agriculture wall	1.00
NW-15	Mrs. M.G.Somawathimenike	161, Andagala Katupotha, Bambaragasyaya,	585,065	472,962"	4'- 0" Ø, Circular well; Con. RCC pipe inside	5.70

**Groundwater Monitoring Report, Ranwediya Tunnel. NWPC-ICB-2-Selected wells**

Well No.	Name of Owner	Address	Location		Type of Well	Depth of well (from Guard wall top / Ground level to Sill level) [m]
			N	E		
RW-11	Common Well (Pradeshiya Shaba)	Keppitiya, Galewela	582636.27	473,747	10'-1"x6"1" size rectangular well,, Rubble work inside; Brick work Guard wall	1.3
RW-17	Mr. S.L., Alabdeen	Keppiyawa, Galewela	582545.16	476080.18	6'-6" Ø, Circular well; Hume pipes inside	4.7
RW-20	Mr. S.Fauzer	Keppiyawa, Galewela	582619.41	476003.51	4'-6" Ø, Circular well; Hume pipes inside, Cement rendered Guard wall	6.0
RW-23	Mrs. Naur Pichche Lebbe	592, Keppiyawa, Galewela	582559.99	475955.38	8'- 3" Ø, Earth excavated well; No walls inside and No Guard wall	7.2
RW-24	Mr. M.H.Siddeek Lebbe	249-A, Ranwediya, Galewela	582632.50	476080.18	5'- 0" Ø, Circular well; Rubble work inside, Cement rendered Guard wall	5.28
RW-26	Mr.Abubakar Musim	217-D, Ranwediya, Galewela	582624.90	475824.69	5'- 0" Ø, Circular well; Rubble work inside, Cement rendered Guard wall	6.0
RW-29	Mrs. I Parzana	238, Ranwediya, Galewela	582644.05	475752.50	3'-4" Ø, Circular well; Hume pipes inside, Cement rendered Guard wall "	3.10
RW-31	Mr. J.M. Asim	644, Ranwediya, Galewela	582597.10	475669 .68	5.0x'-5" Size Square type, Rubble wall inside, Hume pipes inside, Cement rendered Guard wall	3.20
RW-33	Mr. M.C. Jameel	240, Ranwediya, Galewela	582643.79	475720 .10	5.0 Ø ,Circular well; Rubble work inside, Cement rendered Guard wall	3.90
RW-35	Mr.Meera Hussain	231-B, Ranwediya, Galewela	582588.06	475563.90	5.0 Ø ,Circular well; Rubble work inside, Cement rendered Guard wall	3.35



# Layout Plan for Nilagama Tunnel (NWPC-ICB-2) - Existing Wells







Date: 28<sup>th</sup> September 2019

Our Ref. No. CSCEC - ICB2 - PMDSC- <sup>624</sup> -2019

Mr. Ravi Kodikara Arachchi  
Resident Engineer  
RE Office NWPCP ICB-2  
#A1 & A2, Jayantha Kumarasiri  
Kalahakele, Galewela  
Sri Lanka

**Construction of Main Canal from Nebadagahawatta to Mahakithula Reservoir Inlet  
Tunnel (from 5+250km to 22+300km)– NWPCP – ICB - 2**

**Contract No : MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003**

**Sub: Submission of well water monitoring report- No.4 and 5**

Dear Sir,

We herewith submit the report of the well water monitoring. The joint monitoring work was done on 19.09.2019 and 26.09.2019.

Yours Faithfully,

Mr. Tang Aimin  
Project Manager

Construction of Main Canal from Nebadagahawatta to Mahakithula Reservoir Inlet  
Tunnel (from 5+250 km to 22+300 km)  
China State Construction Engineering Corporation Ltd.

CC- Mr. Eng. G.M.R.A. Perera (Project Director - NWPC Project)

Mr. Lutz.Roemer (Chief Resident Engineer - PMDSC)

Dr. Anusha Kasige, Environmental Specialist, PMDSC

Democratic Socialist Republic of Sri Lanka

Ministry of Mahaweli Development and Environment

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## **Mahaweli Water Security Investment Program Management, Design and Supervision Consultant**

Main Canal from Nabadagahawatta to Mahakithula Reservoir (5+250 to 22+500km )

Environmental Monitoring Report No. 04

Contract Number ; MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003

Date - 19<sup>nd</sup> September 2019





**16+900 – 18+500 km Ground Water Monitoring Report, NWPC-ICB-2**

**Prepared for:**

Ministry of Mahaweli Development and Environment  
 Mahaweli Water Security Program  
 Program Management Unit  
 No. 493 1/1, T.B. Jayah Mawatha  
 Colombo 10  
 Sri Lanka

**Prepared by:**

Chaina State Construction Engineering Corporation,  
 240/a,  
 Puwakpitiya,  
 Galewale.

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	19 September 2019	A.H.A. Dissanayake	HSE	Mr. Hun	Mr.Tang Aimin	

## Groundwater Monitoring Report, Hombawe. NWPC-ICB-2-Selected wells

Well No.	Name of Owner	Address	Location		Type of Well	Depth of (Ground level to existing water level) [m]
			N	E		
HW-1	R.G. Wijerathna	Kospotha, Beligamuwa			10'-1"x6"1" size rectangular well,, Rubble work inside; Brick work Guard wall	1.80
HW-2	Mr. W.K. Wimalasiri	Kospotha, Beligamuwa, Bambaragaswewe	583,196	475,032	4'- 8" Ø, Circular well; Hume pipes inside	3.60
HW-3	Mrs.M.G. Manjula Malkanthi	Kospotha, Beligamuwa, Bambaragaswewe	583,300	475,054	6'-3" Ø, Circular well; Rubble work inside, Cement rendered Guard wall	4.90
HW-4	Mr. R.H. Koimal	Thalakiriyagama, Bambaragaswewe	583,026	473,815	150mm Tube well	
HW-5	Mrs. B. Mudiyanthi	Thalakiriyagama, Bambaragaswewe	585,088	473,763	5'-0" Ø, Circular well	4.70
HW-6	Mrs. B.M. Gunawathi	Thalakiriyagama, Bambaragaswewe			5'- 5" Ø, Circular well; Rubble work in-side; Brick work Guard wall	5.50
HW-7	Mrs. R.H.A. Gunathunga Podimenike	Thalakiriyagama, Bambaragaswewe	585,086	473,881	4'- 0" Ø, Circular well; Hume pipes inside	5.00
HW-8	Mrs. H.A.K. Podimenike	Daduwigolla, Bambara gaswewa	585,142	473,845	6'- 0" Ø, Circular well; Hume pipes inside	6.50
HW-9	Mr. K.W. Senadira	Daduwigolla, Bambara gaswewa .	585,167	473,725	5'- 5" Ø, Circular well; Rubble work in-side; Brick work Guard wall	3.70
HW-10	Mrs.L.A. Sandiyakumari	363/A, Daduwigolla, Bambaragaswewa	583,864	474,745	6'- 0" Ø, Circular well; Hume pipes inside	5.00
HW-11	Mr. Sanath Kumare	Daduwigolla, Bambara gaswewa .	585,296	473,795	7'- 2" Ø, Circular well; Rubble work in-side; Cement rendered Guard wall	8.80

HW-12	Mr. W.K. Jemis Singho	Dadu wagoll, Babaragaswewa, Galewela			12'-5" Ø, Circular well	6.10
HW-13	Mr. W.K.Siman Silwa	Dadu wagoll, Babaragaswewa, Galewela			6'-6" Ø, Circular well	4.30
HW-14	Mr. B.D. Pradeep Dramadase	277/A/1,Dadu wagolle, Babaragaswewa, Galewela			8'- 7" Ø, Circular well	5.80
HW-15	Mr. K.B.W. Rathnakumare	277/A/2,Dadu wagoll, Babaragaswewa, Galewela ,			Tube Well	5.20
HW-16	Mr.K.D. Nimal Shanath	363,Dadu wagoll, Babaragaswewa, Galewela			7'- 9" Ø, Circular well	4.10
HW-17	Mr. R.G. Piyasena	Dadu wagoll, Babaragaswewa, Galewela			7'- 5" Ø, Circular well; Rubble work in-side; Brick work Guard wall	5.20

Democratic Socialist Republic of Sri Lanka

Ministry of Mahaweli Development and Environment

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## **Mahaweli Water Security Investment Program Management, Design and Supervision Consultant**

Main Canal from Nabadagahawatta to Mahakithula Reservoir (5+250 to 22+500km )

Environmental Monitoring Report No. 05

Contract Number : MMDE/MWSIP/ADB/NWPCP/ICB-2/3267-3268-SRI/ICB/2017/003

Date - 26<sup>nd</sup> September 2019



ENGINEERING  
CONSULTANTS (PVT)  
LIMITED

**NIRAS**

### 16+900 – 18+500 km Ground Water Monitoring Report, NWPC-ICB-2

#### Prepared for:

Ministry of Mahaweli Development and Environment  
 Mahaweli Water Security Program  
 Program Management Unit  
 No. 493 1/1, T.B. Jayah Mawatha  
 Colombo 10  
 Sri Lanka

#### Prepared by:

Chaina State Construction Engineering Corporation,  
 240/a,  
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	26 September 2019	A.H.A. Dissanayake	HSE	Mr. Hun	Mr. Tang Aimin	



## Groundwater Monitoring Report, Aluthwewa. NWPC-ICB-2-Selected wells

Well No.	Name of Owner	Address	Location		Type of Well	Depth of (Ground level to existing water level) [m]
			N	E		
AW-1	W.Thusara Wicramasinha	Aluthwewa, Bambaragaswewe	596,982	471,961	5'-10" Ø, Circular well; Hume pipes inside	7.00
AW-2	Mr. P.R. Nalake Sanjeeva	Aluthwewa, Bambaragaswewe	586,978	471,983	4'- 7" Ø, Circular well; Hume pipes inside	5.45
AW-3	Mr. P.R. Nalake Sanjeeva	Aluthwewa, Bambaragaswewe	586,978	471,983	150mm Tube well	6.90
AW-4	Mrs. P. M. Kalyaniwethi	38/A, Aluthwewa, Bambaragaswewe	586,986	472,299	6'8" Ø, Circular well	9.25
AW-5	Mrs. P. M. Kalyaniwethi	Aluthwewa, Bambaragaswewe	586,749	472,306	6'3" Ø, Circular well	6.15
AW-6	Mr. M. M. Chandradasa	Aluthwewa, Bambaragaswewe	586,749	472,604	4'- 7" Ø, Circular well; Hume pipes inside	6.75
AW-7	Mr. M. M. Chandradasa	Aluthwewa, Bambaragaswewe	586,867	472,262	4'- 0" Ø, Circular well; Hume pipes inside	5.00
AW-8	Mr. M.G.P. Sisira Kumare	40/A, Aluthwewa, Bambaragaswewe			12' Ø, Circular well	5.70
AW-9	H.M. Senanayake	. Aluthwewa, Bambaragaswewe			12' Ø, Circular well	5.20
AW-10	Mr.K.A. Randike Suneth.	. Aluthwewa, Bambaragaswewe	586,393	472,729	6'- 7" Ø, Circular well; Rubble work in-side; Cement rendered Guard wall	5.00
AW-11	Mr.K.A. Randike Suneth.	. Aluthwewa, Bambaragaswewe .	586,248	472,702	15" Ø, Circular well	5.45
AW-12	Mr. W.K. Jemis Singho	. Aluthwewa, Bambaragaswewe	586,245	472,710	15" Ø, Circular well	4.30
AW-13	Mr. R.M. Wimalawathi	. Aluthwewa, Bambaragaswewe	586,605	472,657	150mm Tube well	6.10

## **Annex 3:**

### **CEA Letter informing outcomes of the EMC**

# මධ්‍යම පරිසර අධිකාරිය மத்திய சுற்றாடல் அதிகாரசபை Central Environmental Authority



58/12

පරිසර පියස, 104, ඩෙන්සිල් කොබ්බෑකඩුව මාවත, බත්තරමුල්ල, ශ්‍රී ලංකාව.

"පරිසර පියස", 104, ඩෙන්සිල් කොබ්බෑකඩුව මාවත, බත්තරමුල්ල, ශ්‍රී ලංකාව.

"Parisara Piyasa", 104, Denzil Kobbekaduwa Mawatha, Battaramulla, Sri Lanka. Web: www.cea.lk

අපේ යොමුව  
எமது தொடர்பு  
Our Ref.

08/EIA/Water/07/2012-Mon-Moh-II  
ඔබේ යොමුව  
உமது தொடர்பு  
Your Ref.

දිනය  
திகதி  
Date 12.12.2019

Program Director  
Program Management Unit  
Mahaweli Water Security Investment Program



## North Western Province Canal Project

This has reference to the joint site visit carried out together with the monitoring team appointed by the CEA and to the draft Semi Annual Environmental Monitoring Report (January - June 2019) received by this authority from the project on 07.10.2019 regarding the above project.

Based on the observations made during aforesaid site visit we note the following;

- Reforestation activities and Restoration of existing tanks have been initiated.
- Construction activities within Kahalla -Pallekele Sanctuary are being undertaken in consultation with the Department of Wildlife Conservation.
- Soil erosion control measures, dust barriers and safety sign boards have been established along the canal trace in a satisfactory level.
- However, adequate safety measures had not been established at the working site at Wemedilla reservoir where the construction activities have been temporary stopped (especially there was no safety for the public who access to the reservoir for bathing).

Accordingly, you are hereby informed to establish adequate safety measures at all construction sites even though construction activities are temporary stopped.

Further, with reference to the aforesaid Semi Annual Environmental Monitoring report you are also here by informed to submit the progress of implementation of EMP/s of already commenced construction packages in time together with the Environmental Management Action Plan (EMAP) prepared incorporating the recommendations of the Wildlife Management Plan.

ES(MWSIP)

for your information & name

Chairman	Tel : 2872361, 2872348 Fax : 2872347	Director General	Tel : 2872359 Fax : 2872608	General Office	Tel : 2872278, 2873447, 2873448 7877277-280	Complaint : 2888999
Deputy Director Generals	HRD, Admin. & Finance Tel : 2865296 Fax : 2877515	Env. Pollution Control	Env. Mgt. & Assess.	Env. Edu. & Awareness	Waste Mgt.	
	Tel : 2865296 Fax : 2877515	Tel : 2873453 Fax : 2872605	Tel : 2872388 Fax : 2872296	Tel : 2872297 Fax : 2872609	Te: 2872409 Fax: 2882152	

This EMAP should submit incorporating the following;

- Site specific mitigation measures
- Debris/residue disposal plan
- Reforestation plan together with the locations and extents of reforestation areas
- Fauna and Flora relocation/re-plantation programme including the details on relocation sites/areas
- Implementation schedule

In addition to the above, EMPs for rest of the construction packages to be commenced should also be submitted in order for us to carry out a systematic monitoring programme.

G R D N K

G R D N K Attanayake

Director (EIA)

Environmental Management & Assessment Division

CC: Project Director, NWP Canal Project - f.n.a.

## **Annex 4:**

### **Maps and Photographic Records for the activities performed by the Employer complying with EIA conditions**



# Annex 4-1: Photographic records of the activities carried out during the monitoring period



**Consultative meeting on WMP/ HEC- DS Polpitigama on 02.08.2019**



**Consultative meeting on WMP/ HEC- DS Maho on 29.08.2019**



**Consultative meeting on WMP/ HEC- DS Ehetuwewa on 09.12.2019**



**WMP progress meeting - 12.07.2019 PIU office**



**Consultative meeting on WMP/ HEC- DS Ambanpola on 22.08.2019**



**Consultative meeting on WMP/ HEC- GND- Ambakolawewa & Balumgala on 10.09.2019**





**Reforestation commencement ceremony – Beligamuwa Kanda 12.10.2019**



**Plant Nursery inspection with PMU, PIU & FD officers - 17.12.2019**



**Beligamuwakanda Reforest area inspection with PMU, PIU & FD officers - 17.12.2019**



**Joint Site inspection by environmental unit (PMU,PIU,PMDSC & Contractor - 01.11.2019**



**Joint inspection for Public complaints - 02.12.2019**



**GRC inspection –Hombawa – 19.09.2019**



**GRC-Aluthwewa -23.08.2019**



**CEA (EMC) visit on 20.09.2019**



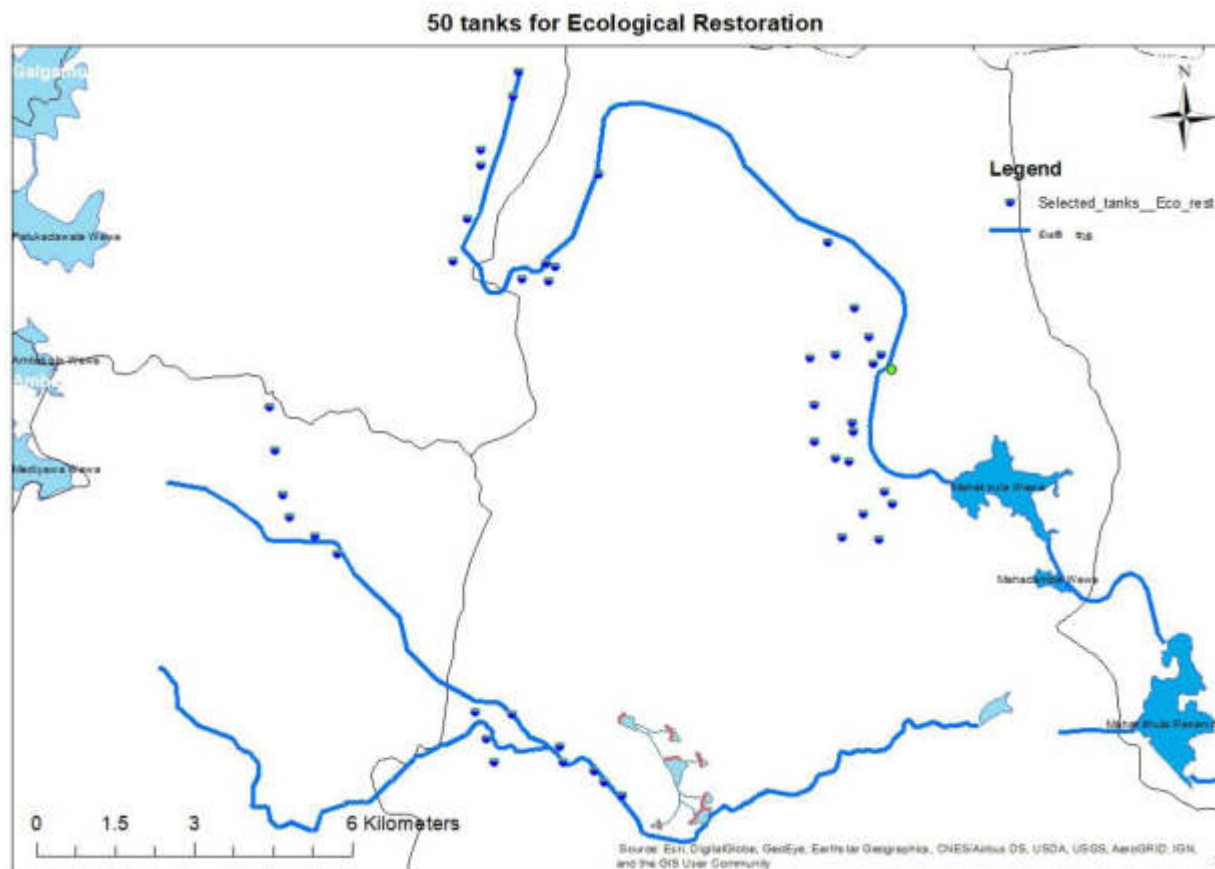
**Removing of Mimosa Pigra in Wemedilla Tank for Norms preparation – 25.09.2019**



## Annex 4-2: Maps of the implemented activities



Figure 5-1: Teak removal & reforestation area - Hakwatunaoya FD lands



**Figure 5-2: Selected 50 tanks for Ecological restoration under WMP**



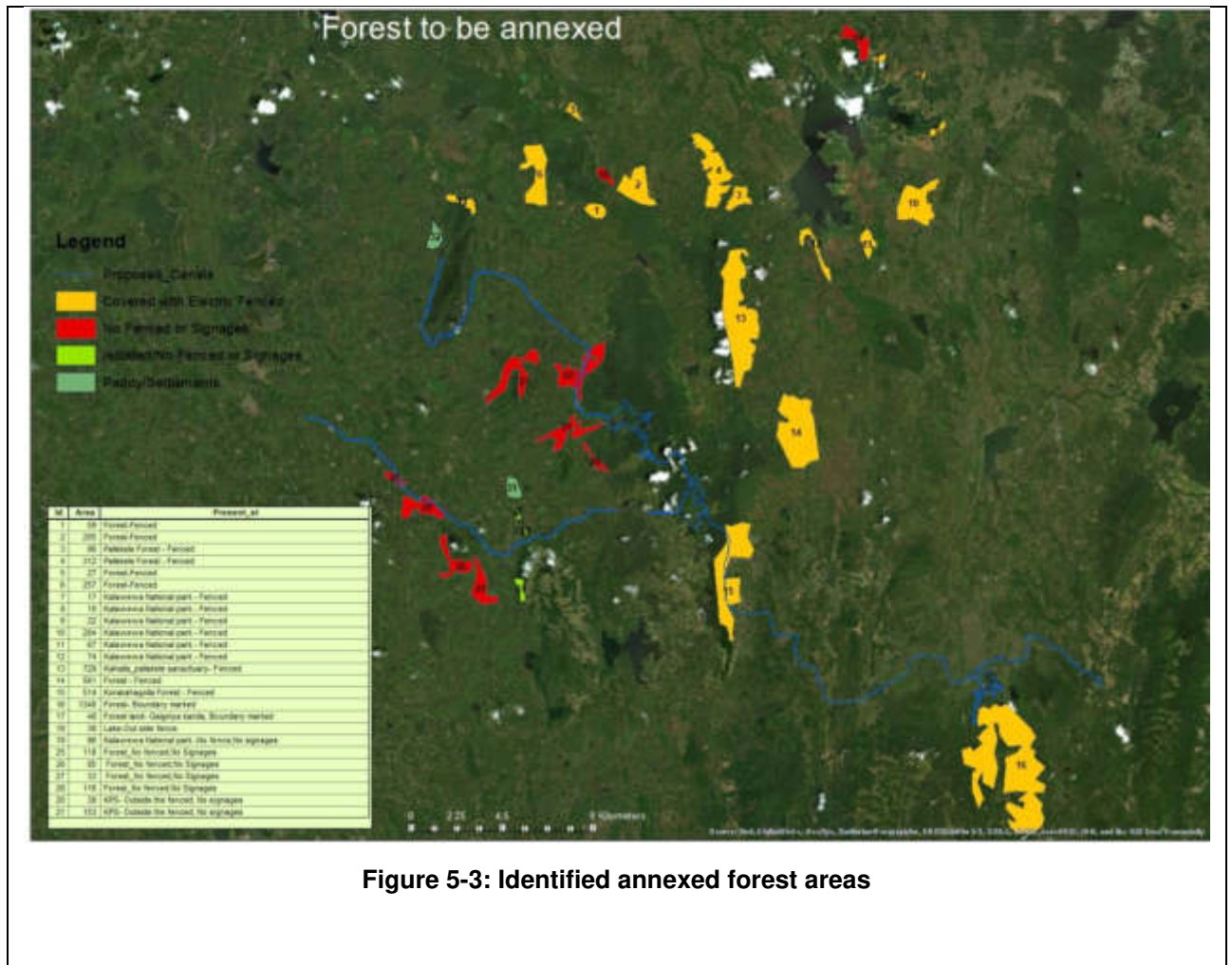


Figure 5-3: Identified annexed forest areas

