# Greater Colombo Water and Wastewater Management Improvement Investment Programme – Project 01 - 2021

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The audit of financial statements of the Greater Colombo Water and Wastewater Management Improvement Investment Programme - Project 01 for the year ended 31 December 2021 was carried out under my direction in pursuance of provisions in Article 154(1) of the Constitution of the Democratic Socialist Republic of Sri Lanka read in conjunction with Section 2.10 (a) of Article II of the Project Agreement No.2947-SRI and 2948-SRI (SF) dated 28 June 2013 entered in to between the National Water Supply and Drainage Board and the Asian Development Bank. My comments and observations which I consider should be reported to Parliament appear in this report.

## **1.2** Implementation, Objectives, Funding and Duration of the Project

-----According to the Project and Loan Agreements of the Programme - Project 01, then Ministry of Water Supply and Drainage, presently the Ministry of Water Supply is the Executing Agency and the National Water Supply and Drainage Board is the Implementing Agency of the Programme -Project 1. The objectives of the Programme-Project 1 are to improve urban environment and quality of life for the residents of Greater Colombo area and expected to (a) rehabilitate and expand water supply system and reduced Non-Revenue Water in the City of Colombo (b) improve wastewater service in the Greater Colombo area (c) strengthen institutional structure and capacity of the service providers and (d) manage and implement investment projects. As per the Loan Agreements, the estimated total cost of the Programme-Project 1 amounted to US\$ 112 million equivalent to Rs. 14,784 million and out of that US\$ 84 million equivalent to Rs. 11,088 million or 75 per cent was agreed to be financed by the Asian Development Bank. The balance amount of US\$ 28 million equivalent to Rs. 3,696 million or 25 per cent is expected to be contributed by the Government of Sri Lanka. The Programme commenced its activities on 25 September 2013 and scheduled to be completed by 31 December 2016. Subsequently, the period of the Programme had been extended three times up to 30 June 2021.

## 1.3 Opinion

In my opinion, the accompanying financial statements give a true and fair view of the financial position of the Programme- Project 1 as at 31 December 2021 and its cash flows for the year then ended in accordance with Sri Lanka Accounting Standards.

## **1.4 Basis for Opinion**

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I conducted my audit in accordance with Sri Lanka Auditing Standards (SLAuSs). My responsibilities, under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of my report. I believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for my opinion.

## **1.5** Responsibilities of Management and Those Charged with Governance for the Financial Statements

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Management is responsible for the preparation of financial statements that give a true and fair view in accordance with Sri Lanka Accounting Standards, and for such internal control as management determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

Those charged with governance are responsible for overseeing the Project's financial reporting process.

## **1.6** Auditor's Responsibilities for the audit of the Financial Statements

My objective is to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes my opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Sri Lanka Auditing Standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

As part of an audit in accordance with Sri Lanka Auditing Standards, I exercise professional judgment and maintain professional scepticism throughout the audit. I also:

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for my opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of internal control of the Programme –Project 1.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by the management.
- Evaluate the overall presentation, structure and content of the financial statements, including the disclosures, and whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation.

I communicate with those charged with governance regarding, among other matters, significant audit findings, including any significant deficiencies in internal control that I identify during my audit.

## 2. Comments on Financial Statements

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## 2.1 Accounting Deficiencies

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	Accounting Deficiencies	Amount Rs. Million	Responses of the Management	Auditor's Recommendations
(a)	Even though the mobilization advance had		Correction entry has been made	Action should be taken to rectify the
	been fully recovered from ICB-2 contractor by interim payment certificate No.28 in year 2021. However, out of that mobilization advance amounting to Rs. 71.76 million had not been accounted as recovered in the financial statements	71.76	subsequently	issue.
(b)	Advance liquidation value of Rs.54.92 million equivalent to USD 290,450 had been liquidated under the initial advance of the Loan No.2947. However, it had not been transferred to the respective loan account after liquidation.	54.92	Correction entry has been posted subsequently	Action should be taken to rectify the issue.

## **3.** Physical performance

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## **3.1** Physical progress

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As per the progress report of the Programme –Project 1, the overall physical progress of the Project as at 31 December 2021 was 95.73 percent. However, Project had achieved only 12.29 percent of progress during the year under review was observed. Cumulative performance of the each component of the project was as follows.

	Activities	Units	Expected target	Target achieved as at 31 December 2021	Audit Issue	Response of the Management	Auditor's Recommendation s
(a)	System Rehabilitation for NRW reduction in Northern part of the Colombo City ( <b>ICB-1</b> ) - Pipe laying works - Connection transfers (Fully completed) - Fully Completed DMA'S handed over to NWSDB - Overall progress of the	Meters house holders Nos Percentage	212,654 35,176 16 100	212,654 35,106 12 99.51	Delaying the completion of system rehabilitation works for None Revenue Water reduction within the scheduled contract period. As a result, it may adversely affect to reach the expected target of the 18 percent of non-revenue water reduction in Colombo city	Due to unavoidable circumstances, the contract period had to extend considering reasonable reasons. However, the expected target of NRW has been reached now.	Corrective measures should be taken to avoid delays
(b)	System Rehabilitation for NRW Reduction in Eastern part of the Colombo City –( <b>ICB-2</b> )						
	<ul> <li>Pipe laying (Including feeder main)</li> </ul>	Meters	252,556	252,256	Delaying the completion of system rehabilitation works for None Revenue Water reduction within the	Due to unavoidable circumstances, the contract period had	Corrective measures should be taken to avoid delays

	- Connection transfers	House	27,314	24,722	scheduled contract period.	to extend	
	(Fully completed)	holders			As a result, it may	considering	
					adversely affect to reach the	reasonable	
	- Fully completed DMAS	Nos	20	08	expected target of the 18	reasons. However,	
	&handed over to the				percent of Non-revenue	the expected target	
	NWSDB				water reduction in Colombo	of NRW has been	
		Percentage	98.04	92.41	city.	reached now.	
	- Overall progress of the						
	contract						
(c)	Construction of NRW	Percentage	100	99.02	Adversely affect the	The Building was	Immediate actions
	building at Maligakanda.				completion of the Project	handed over on 3 <sup>rd</sup>	should be taken to
						January 2022	complete the
							balance works as
							per the para 3.5 (b)
							of this report

## **3.2** Contract Administration

	Audit Issues	Responses of the	Auditor's	
		Management	Recommendations	
(a)	Contract for System Rehabilitation for Non-Revenue Water	Due to unavoidable circumstances, the	Contract should be fully	
	Reduction in Northern Part of the Colombo City (ICB-1) was	contract period had to extend considering	completed before the Project	
	scheduled to be completed within 42 months by July 2018.	reasonable reasons. The total No. of	period of 30 June 2022.	
	Subsequently, the contract period had been extended in five	DMAs (16) had been fully completed and		
	times up to 21 October 2021 and the pipe laying works of	handed over to the O & M division.		
	212,654 meters with pressure testing and 35,106 numbers of			
	house connection transfers had been fully completed as at 31			
	December 2021. However, after lapse of 83 months from the			
	date of commencement of the activities of the contract, only 12			
	district metering areas out of 16 had been fully completed and			

r I	handed over to the NWSDB as at 31 December 2021. As a result, period of the contract had been extended again up to 15 March 2022, beyond the loan winding up date of the Project on 31 January 2022.		
	Contract for System Rehabilitation for Non-Revenue Water Reduction in Eastern Part of the Colombo City (ICB-2) was scheduled to be completed within 48 months by July 2019. Subsequently, the contract period had been extended three times up to 21 January 2022. The expected targets of the contract was 252,556 meters of pipe laying works and provide 27,314 numbers of connection transfers in 20 district metering areas under the rehabilitation and expand the water supply system and reduce non-revenue water below 18 percent of the Eastern part of the Colombo city. Even though the 252,256 meters of pipe laying works and 24,722 numbers of contraction transfers had been completed as at 31 Deceber2021 after lapse of 77 months from the date of commencement of the activities of the contract, only 8 DMAS out of 20 had been fully completed and handed over to the NWSDB after achieving the expected target of NRW reduction. However ,it was observed that the contract works have been carried out beyond the loan winding <i>up</i> date of the project on 31 January 2022 without obtaining the proper time extension	Due to unavoidable circumstances, the contract period had to extend considering reasonable reasons. 19 Nos. of DMAs had been fully completed and handed over to the O & M division. Extension of Time was granted up to 21 <sup>st</sup> May 2022.	Contract should be fully completed before the Project period of 30 June 2022.

## **3.3** Observations made on site visits

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	Audit Issue	Response of the Management	Auditor's Recommendation
(a)	Project had planned to install new bulk meters, repair the existing bulk meters and repair the ground sumps etc. in addition to the pipe laying works and connection transfers of the condominium schemes to reduce NRW. Even though the individual meter readings consider for income generation to NWSDB, bulk meter reading of the each condominium scheme is considering for NRW calculation instead of individual meter readings. Therefore differences might be observed between the bulk meter count and individual meter count due to leakage from ground sumps, leakage from overhead tanks and illegal connections etc. However, it was observed that proper Mechanism had not been implemented to identify deference and charge from the individual customers up to 31 December 2021. Further at the time of the field inspection, bulk meter of Aluthmawatha housing scheme is not functioning and bulk meter of the katawalamulla housing scheme is also unable to read due to covering by road reinstatement works Further, one of the samagipura housing scheme consisted with 16 individual householders had not been given their permission for connection transfers was observed.	As a sustainable remedial action, we have sent a request to the DGM of RSC(WC) to introduce the Master Child methodology for condominiums in the future. Regarding the J block in Samapura, house to house awareness program was carried out by the PMU & PIU officials on 20 <sup>th</sup> January 2022. In addition to that, a letter has sent to Households by the area Engineer Maligakanda on 24 <sup>th</sup> February 2022. Actions have been taken to the replacement of defective bulk meters.	Action should be taken to rectify the defects and complete the balance work after awareness programme.
(b)	Pipe Joints of the Duct tile iron pipes should be fully covered by using mastic materials to prevent the corrosion. As per the Physical inspection carried out in respect of the pipe laying works at Harbor premises under the ICB-01 contract on 11 March 2022, it was observed that, only top of the Nut and	The contractor was instructed to rectify the works with mastic materials. Decommissioning work is in progress and the contractor was instructed to expedite the decommissioning work immediately.	Action should be taken to closely monitor the decommissioning works in order to complete within revised time frame.

	Bolts had been covered by using mastic of the 1000 mm Día pipe joints instead of fully covering them, In addition to that ,instances of leakage of water after decommissioning works, breaking off ABC layer and asphalt tar due to poor road reinstatement and maintenance have been observed at the time of physical inspection.		
(c)	Project had completed pipe laying works of 3.3 km and 1,194 numbers of house connection transfers at Kimbulla ela area under the ICB-01 contract. According to the Physical inspection carried out regarding pipe laying works at Kimbulla ela area on 24 January 2022, it was observed that, reinstatement works had not been done properly. As a result, instances of pot halls, breaking off ABC layer and cracks appearing on road layers had been observed. In addition to that, instances were observed that the pipe joints relating culvert crossings had not been covered by using mastic materials even after lapse of significant period from the constructions.	All the defects were observed. The contractor was instructed to rectify the defects. After rectifying the defects the roads were handed over to CMC.	Action should be taken to avoid such an errors in future.
(d)	Construction contract for NRW building at Maligakanda was scheduled to be completed within 18 months by 23 October 2018. Subsequently, period of the construction had been extended 7 times up to 15 March 2022. Even though the contractor had already been spent 56 months instead of 18 months, Physical progress of the construction was only 99.02 as at 31 December 2021. According to the Physical inspection carried out in relation to the construction works on 27 January 2022, electrical works, Installation of LED light & fittings, Aluminium windows and door works, A/C works, bath room fitting works, water supply to the laboratory, tile rectification works, ceiling works, and some cladding works etc. was to be	The progress of the project has been significantly affected due to various reasons such as poor turnout of the employees to the site due to existed pandemic situation during the said period, scarcity of construction materials in the market (cement, sand, metal, cladding sheets, sanitary fittings, aluminum materials for windows, doors and office partitions &, etc) & delay in importing foreign materials such as LED Light fittings, AC Units & associated refrigerant (Copper) pipes due to	Immediate actions should be taken to fully complete the balance works.

completed. In additional to that, significant balance works of	lack of dollar reserves in the country.	
the ground floor was to be completed by the date on 27	However, it was able to conduct the	
January 2022. Further, it was observed that the those works	opening ceremony of the Call Centre for	
had not been fully completed even up to seventh extension	operation after completing the sixth floor on	
date on 15 March 2022.	3 <sup>rd</sup> January 2022.	

## 3.4 Matters in Contentious Nature

No	Audit Issue	Response of the	Auditor's
		Management	Recommendation
(a)	Value of Rs.133.53 million of 03 subcontracts relating the	The scope of this project is to remove	Such works should be done
	landscaping works had been awarded under the variation orders	100 years old pipes and lay new PE	through the direct labor of
	of ICB-02 contract and paid Rs.31.18 million up to 31 December	pipes. Maligakanda and Elli House	the NWSDB without
	2021. Out of that, value of Rs.132.47 million of subcontracts had	reservoirs are situated in the heart of	utilizing the loan funds.
	been awarded only for the landscaping works for the	Colombo city. Further, it is intended to	
	Maligakanda reservoir and Elli house reservoir which had been	make the environment of the reservoir	
	completed by another water supply Project was observed.	premises look pleasant and beautiful. As	
	According to that, requirement of the landscaping for old	per the Green concept of NWSDB, the	
	reservoirs and a huge amount of cost estimation for landscaping	landscaping should be followed in this	
	works and paid amounting to Rs.30.27 million was questionable	regard. Also, these premises will be a	
	to the audit. In addition to that ,Rs. 3.11 million of profit and	visiting destination, especially for school	
	overheads equivalent to 10 percent of the above payments had	children. Therefore, this will be very	
	been charged by the main contractor without participating in any	vital for upcoming projects in the future.	
	work.		

No.	Audit Issues	Management Responses	Auditor's Recommendations
(a)	The Greater Colombo water and waste water management improvement investment program aims at delivering better water supply services in an effective and efficient manner by reducing the non-revenue water in Colombo city from 49 percent to below 18 percent by year 2020. According to that program Project – 01 had involved to pipe laying works of 450,508.26 meters and provide connection transfers to 60,413 house holders in 36 district metering areas (DMAS) and reduce NRW under the rehabilitation and expand water supply system of Northern and Eastern part of Colombo city. Even though the pipe laying works and house connection transfers had been significantly completed as at 31 December 2021 after lapse of 08 years from the date of commencement of the activities of the Project, only 20 DMAS out of 36 had been fully completed and handed over to the water board as at 31 December 2021 after achieving the expected target of NRW. However, as per the final extension, Project works and loans winding up period of the programme project 01 had been expired on 30 June 2021 and 31 January 2022 respectively. Hence, balance works of the Project will be done under the programme Project – 03 which additional financing Project of the programme. However, NRW percentage of the Colombo city is remained at 34.75 percent as at 31 December 2021. Accordingly, expected target of the reduction of NRW percentage of Colombo city could not be achieved even up to year 2021.	Due to unavoidable circumstances, the contract period had to extend considering reasonable reasons. The NRW teams are continuously monitoring the DMA figures on daily basis and with continuous ALC (Active Leakage Control) work, taking necessary actions to reduce the NRW figures. The current NRW value of the Colombo city is now below than 25%.	Corrective measures should be taken to complete the Project without further delays

## 3.5 Delays in commencement / Implementation / Completion of activities of the Project

(b)	NRW Building is consisted with 06 floors. However, after	As per the tender stage drawing, the	Designing of buildings
	commencement of the interior works, initial floor plans in respect	office partition setup was depicted for	should be done in
	of the laboratory, auditorium and call center had been changed.	only four floors (GF/1F/2F/3F) with the	accordance to the purpose of
	As a result of changing the floor plans, the partition works,	parking facilities & test bench	usage and action should be
	designing of air-conditioning works, placement of pantry	establishment on the Ground floor &	taken to minimize the
	cupboard, tilling works and generator capacity etc. are also had	remaining (4F/5F/6F) with blank floors,	changes after awarding the
	been changed accordingly. Out of that, estimated variation for	whereas the BOQ itemized with nominal	contract and construction
	partition work and cost of the pantry cupboard placement were	provisions to the blank floors. According	stage.
	Rs.7.42 million and Rs. 2.69 million respectively and paid 90	to the NWSDB request & submitted	
	Percent up to 29 Interim Payment Certificate. In addition, to that,	layout plan for the office setup, had	
	Project had paid a sum of Rs.8.52 million for external painting	subsequently led to the changes in the	
	works of whole Building. Subsequently, the Project had	total ELV system, AC System, Fire	
	estimated a sum of Rs.24.7 million for cladding work for the	System &, etc. Further, during a visit by	
	front side of the building which covered the painted area.	higher management in June 2021, it has	
	Therefore, it was observed that some expenses out of painted	been instructed to enhance the interior &	
	works could have been saved if initially decided the cladding	exterior aesthetical view of the building	
	works of the building and further audit observed that the internal	as this building would turn to be the	
	and external design changes had also been significantly affected	prominent hub in the Island to monitor &	
	to the delay of the completion of building other than the	control NRW from now onward.	
	additional expenses of design changed.		
	additional expenses of design changed.		

## 3.6 System and Controls

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No.	Audit Issues	Management Responses	Auditor's
			Recommendation
(a)	Un-recovered security deposits as at 31 December 2021 were	CMC requested the soft copies of the As-	Actions should be taken to
	Rs.109.83 million. The security deposits pertaining to the roads	Built drawings after forwarding all the	recovered the security
	handed over to the CMC was Rs 66.08 million and the defect	documents. We have forwarded them &	deposit without delaying.
	liability period of them had been expired. However, no any	CMC agreed to reimburse the refundable	
	amount had been recovered from CMC during the year under	deposits after receiving As-Built	
	review.	drawings.	

(b)	According to the physical inspection carried out on 24 January 2022 in relation to the pipe yards premises at Alakanda and Makola under the ICB-1 and ICB-2 contracts, it was observed that, PE and DI pipes had not been stored standards method and PE pipes had not been covered by security net to preventing the ultraviolet rays.	The contractor was already instructed to follow the correct procedures for storing the materials. Accordingly, contractor had done the work.	The contractors stores should be monitored closely whether they follow the standards methods for storing the materials
(c)	The provision for the payment of all bonds and Guarantees was Rs.17 million. However, the actual payment as at 25 March 2021 was Rs.131.68 million. Out of that Rs.70.23 million had been paid without obtaining the required approval.	The committee appointed by the General Manager (Engineer for the contract) reviewed all related facts in detail and decided to make this payment under the Provisional Sum BOQ Item 2.01. The payment was made to avoid paying the delay charges to the contractor.	A mechanism should be introduced to payments are made after obtaining the relevant approvals
(d)	According to Management Circular No.05 of 26 July 2010, the activities of the programme Project-1 had not been audited by the Internal Audit section of the National Water Supply and Drainage Board.	It had not been done in year 2022	Actions should be taken to implement an internal audit