

Safeguards Due Diligence Report

September 2019

CAM: Second Greater Mekong Subregion Corridor Towns Development Project

Sihanoukville Urban Drainage Works

Prepared by the Ministry of Public Works and Transport for the Royal Kingdom of Cambodia and the Asian Development Bank.

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Report on Land Acquisition and Resettlement for Involuntary Resettlement Impact for Category C Subproject

Project Number: 46443-002
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SECOND GMS CORRIDOR TOWNS DEVELOPMENT PROJECT

Sihanoukville Urban Drainage Subproject

Prepared by Ministry of Public Works and Transport for the Royal Government of Cambodia

ASIAN DEVELOPMENT BANK



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ACRONYMS

ADB	Asian Development Bank
DED	Detailed Engineering Design
GDR	General Department of Resettlement
GMS	Greater Mekong Region
GRM	Grievance Redress Mechanism
IR	Involuntary Resettlement
IRC	Inter-Ministerial Resettlement Committee
IRC-WG	IRC Working Group
MEF	Ministry of Economy and Finance
MPWT	Ministry of Public Works and Transport
PGRC	Provincial Grievance Redress Committee
PIB	Public Information Booklet
PISCB	Project Implementation Support and Capability Building
PIU	Project Implementing Unit
PMU	Project Management Unit
RC	Reinforced Concrete
SHV	Sihanoukville
SPS	Safeguards Policy Statement
UDS	Urban Drainage Subproject

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Report on Land Acquisition and Resettlement for Involuntary Resettlement Impact for Category C Subproject - Sihanoukville Urban Drainage Subproject

1.0 Introduction

1.1 Project Overview

1. The Royal Government of Cambodia (RGC) has received a loan from the Asian Development Bank (ADB) towards the cost of the Second Greater Mekong Sub-region (GMS2) Corridor Towns Development Project (the Project) under Loan Number 3314 CAM. A Loan Agreement was signed on 22 December 2015 between the RGC and the ADB to finance the Project and the loan was declared effective on 29 February 2016. The project implementation period is from 2016 to 2020 and the loan closing date is 30 June 2021.

2. The Project will improve urban services in the two towns of Kampot and Sihanoukville and will comprise four components:

- (i) Strategic Local Economic Development Plans implemented;
- (ii) Priority urban infrastructure investments implemented;
- (iii) Institutional capacities for managing public investments strengthened; and
- (iv) Community Awareness on project activities and environmental sustainability improved.

3. The participating corridor towns of Kampot and Sihanoukville, continue to face the urgent task of coping with the demands of expanding urban areas. The local authorities want to plan and manage urban growth using an integrated approach, operate and maintain urban environmental and economic infrastructure and efficiently deliver municipal services.

4. The priority urban infrastructure investment component (ii) above expected outcome is to improve urban infrastructure and enhanced climate resilience in Kampot and Sihanoukville Towns. The component will comprise five subprojects: (i) three subprojects in Kampot, (Wastewater Collection and Treatment¹, Urban Drainage & Solid Waste Management; (ii) two subprojects in Sihanoukville (Solid Waste Management & Urban Drainage).

5. Based on the Final Report (2015) for Second GMS, the Sihanoukville Urban Drainage Subproject (UDS) will not trigger any land acquisition or involuntary resettlement (IR) and therefore is classified Category C for IR impact as per ADB's Safeguard Policy Statement (SPS) 2009.² Following the detailed engineering design (DED) and demarcation of land boundaries, a joint field assessment to complete the IR Impact Screening Checklist was undertaken on 14 November, 2018 comprising representatives from PMU, PIU, IRC-WG, and PISCB consultants for the Sihanoukville UDS. The IR Impact Screening Checklist confirmed that there will be no involuntary resettlement and land acquisition activities for Sihanoukville UDS (Annex 1). Therefore, the IR impact of the subproject is classified as Category C and requires preparation of a report for ADB's due diligence.

1.2 Objectives of Involuntary Resettlement

6. The IR under development projects/subprojects, if not mitigated, could give rise to severe economic, social, and environmental risks. The ADB's SPS 2009 on IR outlines the requirements that borrowers/clients are required to meet in delivering involuntary resettlement safeguards to projects/subprojects supported by the ADB. The objectives of Sihanoukville UDS therefore seeks

¹ The Wastewater Collection and Treatment (including the sewerage) and the Urban Drainage components have been combined and from the 'Wastewater Collection and Treatment and Urban Drainage' contract.

² Second Greater Mekong Subregion Corridor Towns Development Project (TA-8425 REG), Final Report, August 2015.

to avoid involuntary resettlement wherever possible with the objectives to minimize involuntary resettlement by exploring subproject design alternatives; enhance, or at least restore, the livelihoods of all displaced persons in real terms relative to pre-project levels; and improve the standards of living of the affected poor and other vulnerable groups..

7. The main objective of this report is to confirm in detail the results of the IR impact assessment and determine whether IR reconfirms the IR impact classification of the Sihanoukville UDS following the DED. The report also outlines how the temporary disturbances that will occur during the construction have been mitigated to avoid these temporary impacts.

1.3 Methodology

8. Primary and secondary data were generated and used to prepare this report. Primary data were gathered through actual site investigation and observation of the proposed drainage alignment with the technical staff of the PISCB consultants who were undertaking the DED. These visits were done in coordination with the PIU based in Sihanoukville and the Cadastral Administration Office of Sihanoukville to determine the impacts.

9. Based on the IR screening undertaken on 14 November, 2018, the Sihanoukville UDS will have no land acquisition and involuntary resettlement. There is no involuntary restriction on land use or access to legally designated parks and protected areas. There are permanent obstructions such as houses, buildings, fences, services utilities, and other structures that were within the sidewalks that will be damaged if the option to install the drains were 3 meters outside of the road kerbs. However, adjustments were made to the scope of works and the DED of the Sihanoukville UDS. The impacts on the permanent structures were fully mitigated by undertaking drain location options to totally avoid resettlement impacts by installing the drains beside the road kerbs and under the road pavement where the installation beside the road kerbs were not feasible

2.0 Subproject Description

10. There are two subprojects in Sihanoukville Town. These are the (i) UDS and (ii) solid waste management subproject. This report is for the Sihanoukville UDS only. A separate report will be prepared for the solid waste management subproject.

2.1 Drainage Alignments

11. The original length of the proposed drainage system in the Final Report (TA-8425) was 52,099m comprising 13 roads. After consultations with the provincial officials and PIU, the length was increased to 64,100m comprising 23 drainage lines but during the DED, the number of drainage lines and their lengths were reduced to 19 and 56,530 m respectively. However, in order to remain within the subproject budget, only 16 drainage lines of 27,443m have been included in the bid documents while the remainder 26,117m has been excluded from the UDS scope of works. The details are shown in Table 1: Summary of Drainage Alignments.

Table 1: Summary of Drainage Alignments

Road	Drainage Line Alignment	Length (m)	Type	Remarks
500	Storm Drainage Line 1 (L1) on St. O'Chhaeuteal (#500)	3,882	Reinforced Concrete (RC) U-Shape	One side of the road, except 200m at starting point is on both sides
400	Storm Drainage Line 2 (L2) on St. Lumhè Preah Phumin (#400)	2,609	RC U-Shape	Both sides of the road
600	Storm Drainage Line 3 (L3) on St. 2-Thnou (#600) - at Lion Roundabout	214	RC U-Shape	
200	Storm Drainage Line 6 (L6) on St. 7-Makara (#200)	2,986	RC U-Shape	
100	Storm Drainage Line 8 (L8) on St. Ekareach (#100)	5,294	RC U-Shape	
110	Storm Drainage Line 9 (L9) on St. Koh Rong (#110)	448	RC U-Shape	

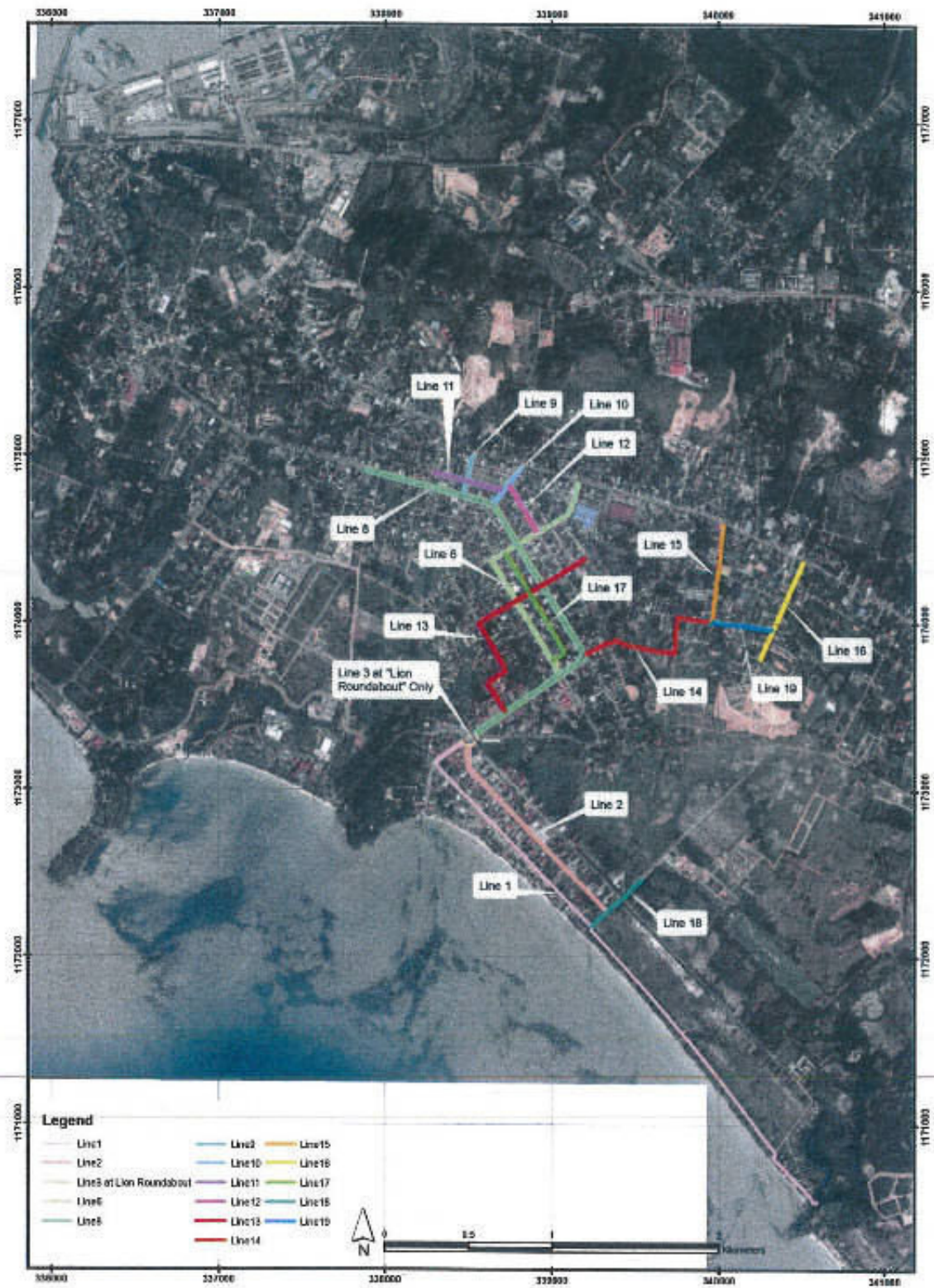
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Road	Drainage Line Alignment	Length (m)	Type	Remarks
108	Storm Drainage Line 10 (L10) on St. Sopheak-Mongkul (#108)	513	RC U-Shape	
1081	Storm Drainage Line 11 (L11) on St. Koh Pous (#1081)	834	RC U-Shape	
209	Storm Drainage Line 12 (L12) on St. 23-Tola (#209)	646	RC U-Shape	
103	Storm Drainage Line 13 (L13) on St. Sereipheap (#103)	2,679	RC U-Shape	
104	Storm Drainage Line 14 (L14) on St. #104	1,975	RC U-Shape	
810	Storm Drainage Line 15 (L15) on St. #810	1,167	RC U-Shape	
814	Storm Drainage Line 16 (L16) on St. #814	1,272	RC U-Shape	
206	Storm Drainage Line 17 (L17) on St. #206	1,524	RC U-Shape	
818	Storm Drainage Line 18 (L18) on St. #818	651	RC U-Shape	
8144	Storm Drainage Line 19 (L19) on St. #8144	749	RC U-Shape	
	Total	27,443		

12. The selection of the drain lines were undertaken to ensure that surface water run-off is properly drained from the built-up catchment areas of Sihanoukville Town. The locations of these drainage alignments are shown in Figure 1.

Figure 1: Drainage Layout Plan

LAYOUT MAP OF URBAN DRAINAGE LINES IN SIHANOUKVILLE TOWN SUB-PROJECT



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2.2 Drainage Type

13. The proposed drainage type for these road lines are of reinforced concrete (RC) U-shape drains of open rectangular section with reinforced concrete covers. The maximum outside width of the RC U-shape drain is 1.3m and will require a minimum of 0.3m on each side for granular bedding or selected fill material. Overall, the installation of the drains will require a minimum of 1.9m trench width. For the purpose of determining resettlement impacts, this figure was rounded off to 2m.

14. The proposed RC U-shape drains will have some temporary resettlement impacts, particularly on businesses and access to houses will be experienced during the construction of the civil works. The DED considered installation of RC U-shape drains under two options to avoid or at least minimize the resettlement impacts as follows:

15. **Option 1:** The RC U-shape drain is to be installed within the existing paved road alongside the inner road kerb. This option is taking into consideration when there is no space available within the side walk.

16. **Option 2:** When spaces are available on the side walk, two scenarios has been considered; (i) where the sidewalks space is too narrow or less than 3m wide, the RC U-shape drain is to be installed on the side walk adjacent to the road kerb; and (ii) where more space is available on the sidewalk or width of the side walk is more than 3 m wide, the RC U-shape drain is to be installed at distance of at least 3m from the side walk within the right-of-way ensuring no additional land acquisition and any involuntary resettlement impacts. This is adopted to plan for future road expansion.

3.0 Scope and Nature of Resettlement Impacts

17. The DED provides the locations of the drainage lines based on the availability of sufficient land to install the RC U-shape drains as outlined in Options 1 and 2 in paras. 15 and 16. However, if there will be some unavoidable impacts, technical solutions will be applied to mitigate any unforeseen resettlement impacts. The permanent and temporary impacts identified after DED and demarcation of land boundaries have been completely mitigated and are summarized in Table 2: Summary of Resettlement Impacts. The photographs in Annexes 2-8 illustrate the temporary impacts.

Table 2: Summary of Resettlement Impacts

Road No.	Drain Line Alignment	Resettlement Impacts	Mitigation
500	Line 1 (L1)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected.	If there will be signage or pavement of sidewalks that will be affected, the contractor will restore them to their former conditions.
400	Line 2 (L2)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore to their former conditions
600	Line 3 (L3)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore to their former conditions
200	Line 6 (L6)	Electric posts and street lights, signage, cemented sidewalks and 4 ornamental trees will be affected. Eleven ambulant food vendors will also be affected.	The contractor will restore the affected sidewalks, signage and flower pots. Mobile food stalls. Will be temporarily relocated further inside and access will be provided by the contractor while during construction. The contractor will excavate and install the drains within a week to minimize any loss of income.
100	Line 8 (L8)	Electric posts, signage, cemented sidewalks and 3 ornamental trees will	The contractor will restore the affected sidewalks, signage and flower boxes.

Road No.	Drain Line Alignment	Resettlement Impacts	Mitigation
		be affected	
110	Line 9 (L9)	Electric posts, signage, cemented sidewalks and 3 ornamental trees will be affected. There are two portions of the road (photos 37 & 42) where concrete steps are up to the kerbs. In Photo 39, a concrete wall in the park will be affected.	The contractor will restore the affected sidewalks, signage and flower boxes. For photos 37 & 42, drainage will be installed under the pavement. For Photo 39, PIU is amendable to partially demolish the concrete wall to install the drain. Demolition and restoration will be undertaken by the contractor.
108	Line 10 (L10)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore to their former conditions
1081	Line 11 (L11)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore to their former conditions
209	Line 12 (L12)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore to their former conditions
103	Line 13 (L13)	The first 300m is very narrow with no sidewalks. A 100-meter concrete wall (Photo 10) extending a factory located on the left side. There are 4 structures (photos 12, 13 and 19, 20) that have occupied the sidewalks. There are 3 electric posts and several trees that will be affected.	In the first 300m, drainage will be installed with the space that will be available on both sides. In front of the wall, drainage will be installed under the pavement bypassing the wall. For Photos 19 & 20, movable stalls will temporarily be relocated further inside and access will be provided by the contractor during construction. The contractor will excavate and install the drains within a week to minimize loss of income.
104	Line 14 (L14)	The first 250m up to the small stream (photos 20 to 24) is very narrow with electric posts, signage and several trees. Impacts started again on km +750 to +800 (photos 30 to 35). On Photo 31, there is a massive concrete structure around 20m long which occupied the sidewalk.	In the first 250m, drainage will be installed within the space that will be available on both sides. This will also result in installing a portion of the drainage under the pavement in the left side. For Photo 31, 34 and 35, the drainage will be installed under the pavement.
810	Line 15 (L15)	Around 11 food establishments occupying around 50m length who have extended roofs to the sidewalks will be affected.	Movable stalls will temporarily be relocated further inside or to adjacent lots and access will be provided by the contractor during construction. The contractor will excavate and install the drains within a week to minimize loss of income
814	Line 16 (L16)	Electric posts, signage, cemented sidewalks, support posts for extended eaves will be affected. Temporary eating areas will also be affected.	The contractor will excavate and install the drains within a week to minimize loss of income. Support posts for extended eaves will also be by the contractors restored after the installation of the drains.
206	Line 17 (L17)	Enough space to install drains within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore them to their former conditions
818	Line 18 (L18)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore them to their former conditions
8144	Line 19 (L19)	Enough space to install drainage within 2.5m from the kerbs. No resettlement impacts are expected	If there will be some signage or pavement of sidewalks that will be affected, the contractor will restore them to their former conditions

Note: 1. Relocation of electric posts will be coordinated by the PIU with the power company through a memorandum of agreement.

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18. There are three roads where drains are to be installed under the existing pavement. These are Road 110 at (a) station km 0 to +25 and (b) km +175 to +225; (b) Road 103 from (c) km +0 to +300; Road 104 from (d) km +0 to +300; and (e) from +750 to +800.

19. A number of electricity posts in many of the roads will also be affected. These involved power line posts and posts with control boxes. These are located within the construction boundaries of the subproject. The Ministry of Public Works and Transport (MPWT) will coordinate with the power company in Sihanoukville to amicably negotiate and settle this resettlement matter so that the installation of drains will not be delayed.

20. There may be some temporary impacts during construction which will be addressed under the particular conditions in the tender documents by the winning contractor. The temporary impacts are summarized in Table 3.

Table 3: Particular Specifications in the Tender Documents

Potential Impacts	Mitigating Measures
Contractor's use of the Site.	The contractor is responsible for arranging land for site establishment and storage area including obtaining all necessary permissions for the supply of water and electricity and provisions for the disposal of all human waste and sewage.
Location of Drainage system	All construction operations and facilities over the entire length of drain construction shall be confined to the existing roads and other rights-of-way, drainage reserve boundaries and the boundaries of designated working areas.
Underground utilities and services and any unforeseen obstructions including cross culverts under the roads	Unless identified in the Contract as to be demolished, the Contractor shall be responsible for safeguarding all utilities and services and structures in the vicinity of the drain lines and shall ascertain from the private and public utility authorities' the locations of all existing underground services and shall maintain and protect or divert them as required.
Construction Areas	Concrete culverts will be precast, either whole or in part, to reduce the width of excavation to ensure quick installation. In developed urban areas, the sides of trench excavations in road and other rights of way and designated working areas shall be vertical and shall be supported by formworks to avoid collapse to safeguard the work and the safety workers.
Access	Where directed by the Engineer, the Contractor shall provide access, vehicular or pedestrian, across drain trench excavations.
Excavated Materials	Unless approved by the Engineer in each and all instances, excavated material unsuitable for use in the Works shall not be stockpiled on the Site. These shall be hauled off within 2 days. Excavated material shall not be stockpiled on road or other rights of way or designated site working areas. This will ensure that temporary disturbances are kept to a minimum.

4.0 Public Consultation, Participation and Information Disclosure

21. A meeting was held on 12 May 2017 with the PIU of Sihanoukville Provincial Department of Public Works and Transport (PDPWT) prior to the field visits to the drainage alignments. This meeting was conducted to update the PISCB consultants on resettlement issues. The PIU informed the PISCB consultants that drainage works on some of the roads listed in the proposed Sihanoukville UDS have already been undertaken by the PDPWT or by the City of Sihanoukville. Hence, these roads were excluded from the Sihanoukville UDS.

22. As part of information disclosure, a project information booklet (PIB) was developed and was approved by the PMU. The PIB contained the subproject entitlements and eligibility, the concept of cut-off date, grievance redress mechanism processes and the institutional arrangements. A Khmer version of the PIB was also developed and finalized and submitted to the PIU for public disclosure.

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23. Public consultations were conducted on 25 October 2018 with stakeholders in Sihanoukville at PDPWT office in Sihanoukville. The participants were PDPWT/PIU representatives, Provincial/City Officers, affected villagers and Sangat council, village council. The summary of participants is presented in Table 4. The attendance list is in Annex 9.

Table 4: Breakdown of Participants in the Public Consultation

No.	Institution	Persons	Female	Male
08:00 – 11:30 AM				
1	PISCB Consultants	2	0	2
2	PDPWT/PIU Members	8	0	8
3	Provincial/City officers	2	0	2
3	Local Authorities	8	1	7
4	Communities	5	0	5
5	Stakeholders	3	0	3
Sub-Total		28	1	27
02:00 – 05:00 PM				
1	PISCB Consultants	2	0	2
2	PDPWT/PIU Members	4	0	4
3	Provincial/City officers	1	0	1
3	Local Authorities	7	0	7
4	Communities	5	0	5
5	Stakeholders	2	0	2
Sub-Total		21	0	21

24. The Directors of PDPWT and PIU welcomed the participants and introduced the subprojects. The PISCB Consultants presented the technical aspects of the WWTP, UD and the solid waste management subprojects. The Deputy Director of Department of Resettlement 1 explained the RGC's and ADB policies on resettlement.

25. The project description and project resettlement policies were explained in the PIB which was given before the public consultation. Specifically, PIB included: 1. Summary of Project; 2. Location of the Project; 3. Project Components; 4. Objectives of the Project; 5. Scope of Land Acquisition and Impacts; 6. Compensation Policy and Eligibility Criteria; 7. Detailed Measurement and Household Surveys; and 8. Grievance Redress Mechanism Processes.

26. After the presentation and detailed explanation on the subprojects, an open forum ensued to enable the participants to ask clarificatory questions and further explanations. The highlights of the issues and concerns raised in this public consultation are summarized in the Table 5.

Table 5: Issues and Concerns Raised in the Public Consultation

Position/Institution	Issues/requests/suggestions	Response/Action
Mr. Chhuon Soheat, Representative of Electricity	Suggested to design big drains which can accommodate the electric wire or optical line or cable, water supply utilities. Request for detailed design plan for team to study on electricity facilities under ground.	Mr. Man Chandaro, I cannot change design or set the standard of the drainage. What we can do is study and implement it based on the reality of need. The drain is not that big it just 1m width so we cannot place other utilities inside it. Mr. Chrea Tharavuth, the suggestion from electricity representative is quite good, I agree and I wanted to have a standard drainage design which can place electricity, water, cable and other utilities one set together on the wall of the drainage for the easy and convenience.
Mr. Chhuon Soheat, Representative of	Is there a budget for repayment if there is an impact?	Mr. Chrea Tharavuth, compensation on affect assets/properties loss will be a part of RGC's contribution and

Electricity		responsibilities not from ADB. The state will pay the losses.
Mr. Phum Vannak, Water Supply representative	Request to have cooperation during project implementation otherwise there will be destroying the water supply system under ground because the contractor might not know our system.	This will be coordinated during the construction.
Mr. Kim Sea, Chief of Sangkat 2.	During construction or project implementation, please cooperate with local authorities so that we can inform our people/communities. In the past, some project or some excavation, we have never been informed at all.	The information on the start date and contractor mobilization will be disseminated to the public before the actual start of physical works.
Mr. Nop Heng, Director of DPWT	Request the contractor to speed up the work. He meant that contractor must excavate to place the drainage and cover it as soon as possible and not to leave it open for many kilometers which cause some accidents and made people not happy with project. Mr. Heng, requesting MPWT to hand over power/right to PIU to set priority of which road should start first and the following.	The contractor's construction methodology will be approved by PIU to ensure that excavation of the drains are carried out in smaller segments and covered after installing the RC U-shaped drains.
Ly Sovath, representative of Optic cable (CFOCN)	Request to water supply company and PDPWT to inform and coordinate with CFOCN before excavation to install any pipe line or drainage or sewerage system.	This will be coordinated during the construction.

27. The final IR screening was jointly conducted by IRC-WG, PISCB Consultants and PIU representatives on 14 November 2018. The results of the IR screening confirmed that there will be no land acquisition or any permanent resettlement impacts arising out of the implementation of the Sihanoukville UDS.

28. MPWT/PMU/PIU will conduct further public consultations before the commencement of civil works, and will distribute the updated PIB containing GRM and contact details of focal persons from MPWT/PMU/PIU, PISCB and Contractor.

5.0 Grievance Redress Mechanism

29. A clear and transparent grievance redress and resolution mechanism has been established to address grievances and complaints regarding land acquisition, compensation and resettlement in a timely and satisfactory manner. The grievance redress mechanism and appeal procedures has been explained in the PIB and in the consultations conducted by the PIU, PISCB and GDR for this subproject.

30. A Provincial Grievance Redress Committee (PGRC) was been established by the Provincial Governor on 16 October 2018. The PGRC comprises representatives from the relevant provincial authorities and government departments follows:

- Provincial Governor - Chair
- Director of Provincial Department of Land Management, Urban Planning and Construction - Vice Chair
- Director of Provincial Department of MEF (PDEF) - Member
- Chief of Provincial Office of Law and Public Security - Member
- District Governor - Member
- One Representative of Local Based CSO - Member

31. If affected persons do not have sufficient writing skills or are unable to express their grievances verbally, it is a common practice that they are allowed to seek assistance from any

recognized local NGO or other family members, village heads or community chiefs to have their complaints or grievances written for them. Throughout the grievance redress process, the responsible committee will ensure that the concerned persons are provided with copies of complaints and decisions or resolutions so that they will be informed accordingly.

32. The grievance process has three stages, the commune, district and provincial levels. The mechanism should not impede access to the country's jurisdiction or administrative remedies. If the AH/AP is not satisfied with the solution made by the PGRC based on the agreed policy in the RP, the AH can bring the case to the provincial court. If the case will be brought to the Provincial Court, the same will be litigated under the rules of the court.

33. During the litigation of the case, RGC will request from the court that the project/subproject proceed without disruption while the case is being heard. If any party is unsatisfied with the ruling of the provincial court, that party can bring the case to a higher court. The RGC shall implement the decision of the court.

6.0 Conclusions and Recommendations

34. From the field inspections and verification of DED of the Sihanoukville UDS, the following observations have been identified and measures to be implemented to minimize and mitigate IR impacts during the construction of civil works:

- (i) No land acquisition will be needed for the Sihanoukville UDS because all the lands required belong to the MPWT;
- (ii) There are some potential resettlement impacts caused by the Sihanoukville UDS indicated in Table 6 under specific roads and chainages. These impacts have been addressed in the DED and the impacts are avoided by installing the drains under the road pavement. However, should there are further potential impacts they will be addressed during the construction.

Table 6: Summary of Road Sections with Drains under Pavement

Activity	Road Number	Chainages
Install drainage under pavement	Road 110 (L9)	Station km 0-25, right side (Photo 37)
	Road 110 (L9)	Station km +175 to +225 right side (photo 42)
	Road 103 (L 13)	First 300m of Road 103 to avoid 4 concrete structures including the 100m concrete wall of a factory.
	Road 104 (L14)	First 250m. Pavement on the right side is wider so the road will veer to the right to maintain the required road width (Photos 20 to 24).
	Road 104 L14)	From km 750 to km 800 to avoid structures including a massive concrete wall and wire fence (Photos 30 to 35).

- (iii) MPWT/PIU will closely coordinate and enter into a Memorandum of Agreement with the power company for the relocation of all affected electricity posts before the start of civil works to ensure that there will be a smooth implementation of the Sihanoukville UDS and avoid unnecessary delays that may prolong loss of income of affected businesses.
- (iv) The wining contractor will restore the temporary resettlement impacts during construction on sidewalks and other affected facilities within the right of way of the affected roads during construction in accordance with the specifications in the tender documents and the Contractor's Environmental Management Program;
- (v) MPWT and PIU will inform households adjacent to the drainage alignment of the construction schedule of the contractor and assist them to shift back or move aside their stalls for construction to proceed quickly and minimize resettlement impacts;
- (vi) PIU and PISCB consultants will undertake close supervision of the works during construction to avoid impacts;

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(vii) ~~MPWT shall ensure that the GRC is established with a process starting from the local level. This subproject specific GRM will be disclosed to households and local authorities residing in the subproject area; and~~

(viii) MPWT/PMU/PIU will conduct public consultations before the commencement of civil works, and will distribute the updated PIB containing GRM and contact details of focal persons from MPWT/PMU, PISCB consultants and the contractor.

Annex 1: Involuntary Resettlement Impact Screening Categorization Checklist

Date: 14 November 2018

The following checklist was used for Involuntary Resettlement (IR) Impact Screening of the Sihanoukville Urban Drainage Subproject (UDS) under the Second Greater Mekong Sub-Region Corridor Town Development Project. The objective of this checklist is to verify and confirm the categorization of IR Impact for the Sihanoukville UDS.

Probable Involuntary Resettlement Effects	Yes	No	Not Known	Remarks
Involuntary Acquisition of Land				
1. Will there be land acquisition?		X		There will be no land acquisition. The proposed urban drainage will be built/improved within the (a) paved road, if no space within the sidewalk, or (b) if sidewalk is less than 3 meters wide, next to the road curb, or (c) if more than 3 meters, at least 3 meters from the sidewalk.
2. Is the site for land acquisition known?		X		As per the final detail engineering designs no additional land will be acquired.
3. Is the ownership status and current usage of land to be acquired known?		X		No Land Acquisition. Roads and sidewalks are owned by the Ministry of Public Works and Transport and presently these areas are used for roads and sidewalks.
4. Will easement be utilized within an existing Right of Way?		X		
5. Will there be loss of shelter and residential land due to land acquisition?		X		
6. Will there be loss of agricultural and other productive assets due to land acquisition?		X		
7. Will there be losses of crops, trees, and fixed assets due to land acquisition?		X		
8. Will there be loss of businesses or enterprises due to land acquisition?		X		
9. Will there be loss of income sources and means of livelihoods due to land acquisition?		X		
Involuntary restrictions on land use or on access to legally designated parks and protected areas				
10. Will people lose access to natural resources, communal facilities and services?		X		
11. If land use is changed, will it have an adverse impact on social and economic activities?		X		
12. Will access to land and resources owned communally or by the state be restricted?		X		
Information on Displaced Persons:				
Any estimate of the likely number of persons that will be displaced by the Project? [X] No [] Yes				
If yes, approximately how many? _____				
Are any of them poor, female-heads of households, or vulnerable to poverty risks? [X] No [] Yes				
Are any displaced persons from indigenous or ethnic minority groups? [X] No [] Yes				

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Involuntary Resettlement Category Based on Field Assessment			
[] New [] Recategorization — Previous Category [X]			
<input type="checkbox"/> Category A	<input type="checkbox"/> Category B	<input checked="" type="checkbox"/> Category C	<input type="checkbox"/> Category FI
Comments from Project Team			
<p>The detailed engineering design provides for the locations of the drain lines based on availability of open spaces to minimize, if not avoid resettlement impacts under two options:</p> <ul style="list-style-type: none"> - Option 1: The RC U drain is to be installed within the existing paved road by cutting the existing bituminous roads and install the RC U drain adjacent to the road curb inside the road. This option is taking into consideration when there is no space available within the side walk to install the RC U drain - Option 2: when spaces are available on the side walk, two possible scenarios could be possible for laying the RC U drain. The first scenario when the sidewalk's available space is too narrow or less than 3m wide, the RC U drain is to be installed on the side walk adjacent to the road curb. The second scenario is when more space available on the sidewalk or width of the side walk is more than 3 m wide, the RC U drain is to be installed at distance of at least 3m from the side walk. The purpose is to plan for future road expansion. <ul style="list-style-type: none"> ❖ To reduce resettlement impacts, the subproject decided to forego scenario 2 under Option 2. In cases where permanent structures are affected, Option 1 will be applied to specific segments of the roads; ❖ All obstructions on the sidewalks were identified (see photographs) and measured. Based on their locations, recommendation on what options to implement have been provided in the report to avoid permanent resettlement impacts on permanent obstructions on the sidewalks. ❖ Electricity posts, street lamps, signs, and parts of public areas that will be affected by the drainage installations and will be coordinated by PMU/PIU with the concerned entities to relocate these structures to more appropriate locations. ❖ The contractor's construction methodology will provide temporary access and implement the UDS in stages to minimize loss of income. If feasible, the contractor in coordination with PIU will assist ambulant vendors find alternative locations for the duration of installation of drains. The contractor shall restore floor tiles and concrete flooring after the installation of the drains (See Photographs 1, 16, 40, 42, 49, 50, 51, 52, 56, 60, 61, 62, 67). 		(See attached Photos)	
Approval			
Proposed by:		Reviewed and Endorsed by:	
		Seng Vandy Director, Resettlement Department 1 General Department of Resettlement	
Project Management Unit (PMU)		Inter-Ministerial Resettlement Committee (IRC) H.E. Nhean Leng, IRC Chairman, MEF	
Date:		Date:	

Annex 2: Photographs: Street 100



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6

0-2
or
kp

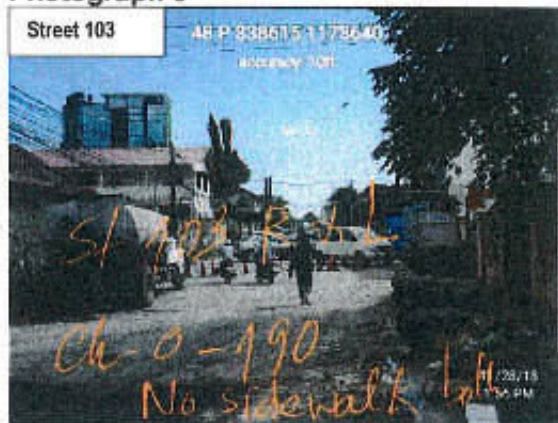
Annex 3: Photographs: Street 103



Photograph 7



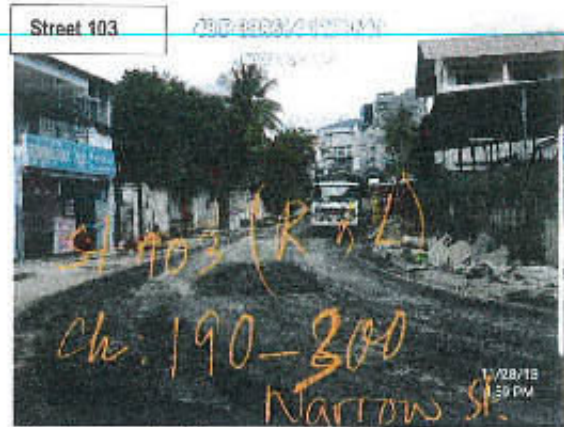
Photograph 8



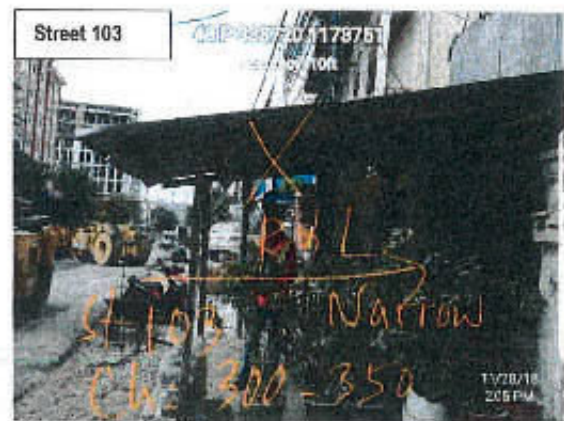
Photograph 9



Photograph 10 Concrete wall)



Photograph 11



Photograph 12



Photograph 13



Photograph 14

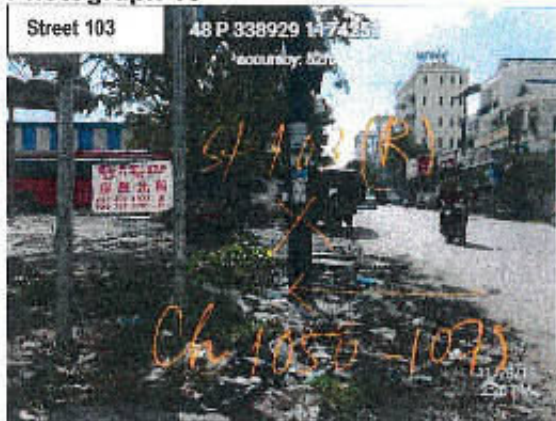
OP
X
Ka



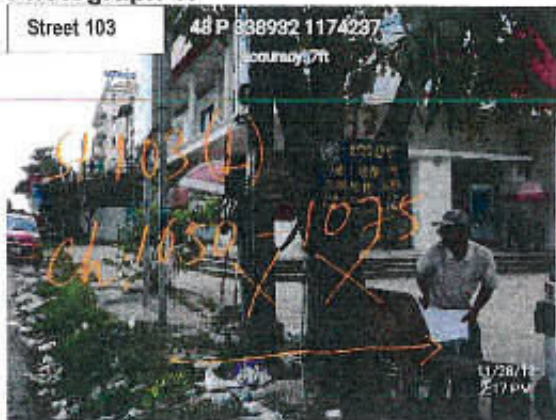
Photograph 15



Photograph 16



Photograph 17



Photograph 18



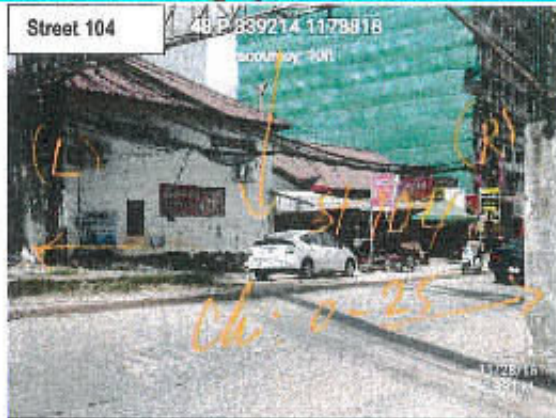
Photograph 19



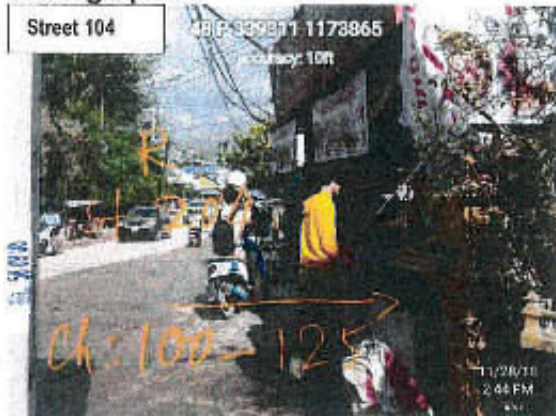
Photograph 20

80
65
100

Annex 4: Photographs: Street 104



Photograph 21



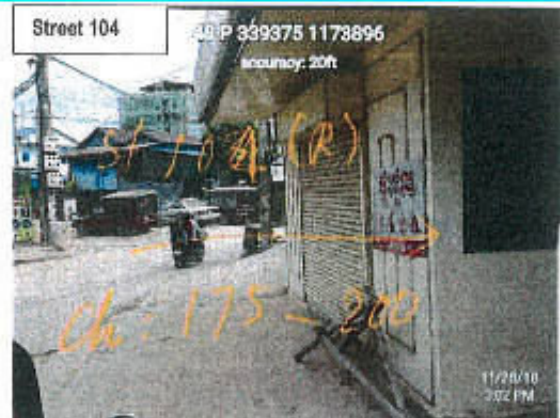
Photograph 22



Photograph 23



Photograph 24



Photograph 25



Photograph 26

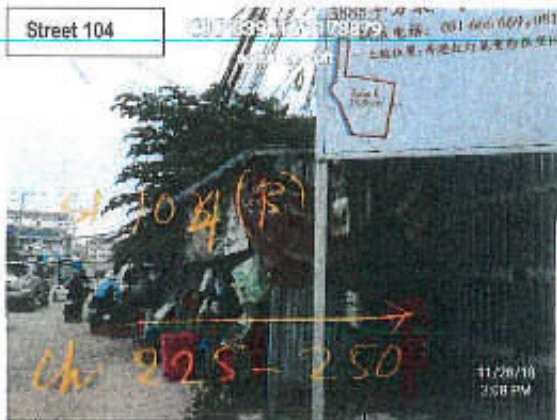


Photograph 27

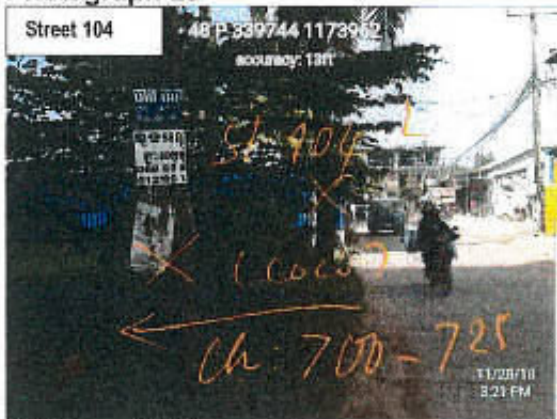


Photograph 28

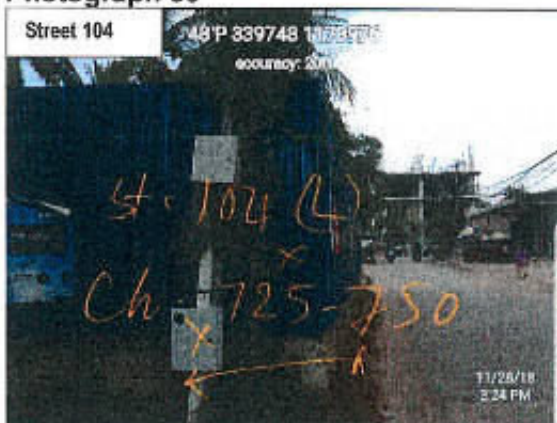
Handwritten notes in the bottom right corner, including a checkmark and the text 'OK'.



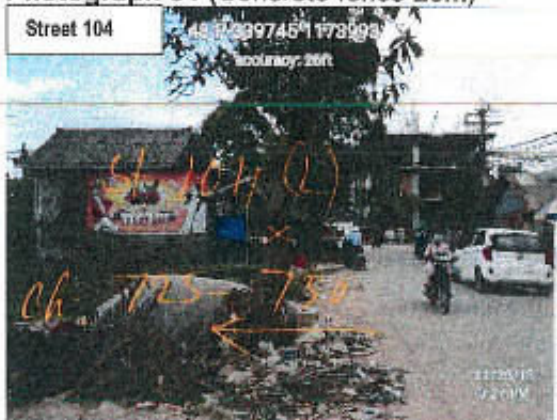
Photograph 29



Photograph 30



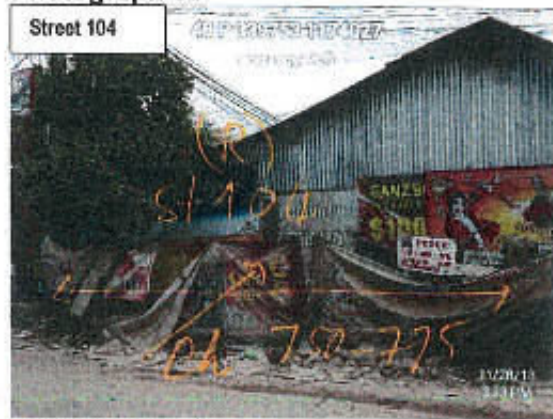
Photograph 31 (Concrete fence 20m)



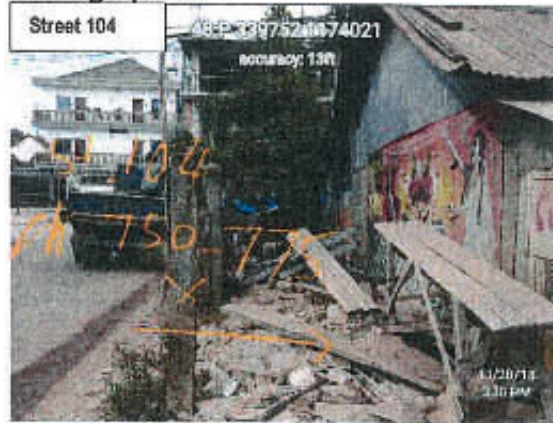
Photograph 32



Photograph 33



Photograph 34



Photograph 35

Handwritten notes in the bottom right corner of the page, including a signature and some illegible text.

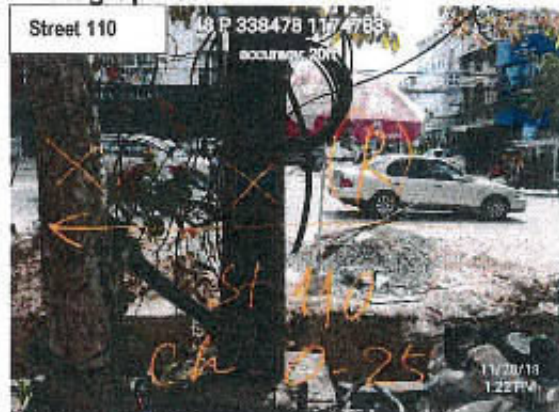
Annex 5: Photographs: Street 110



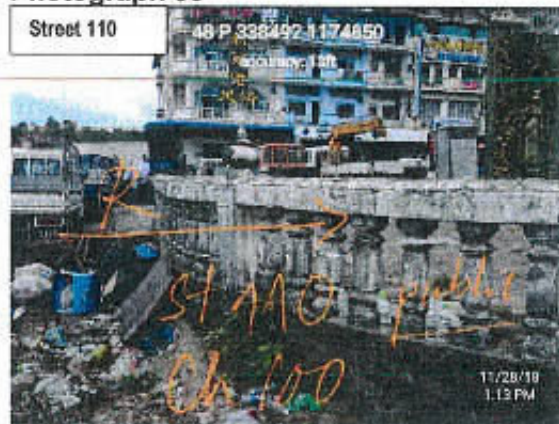
Photograph 36



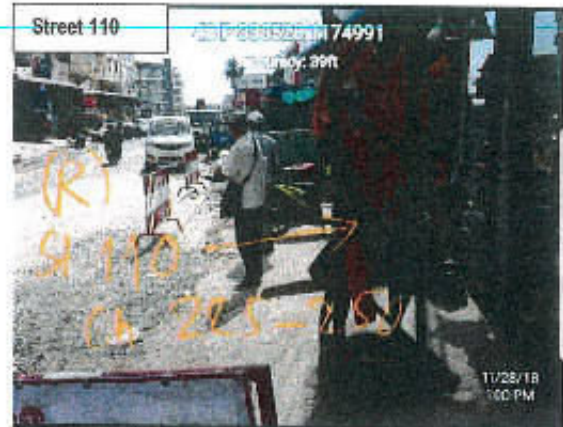
Photograph 37



Photograph 38



Photograph 39



Photograph 40



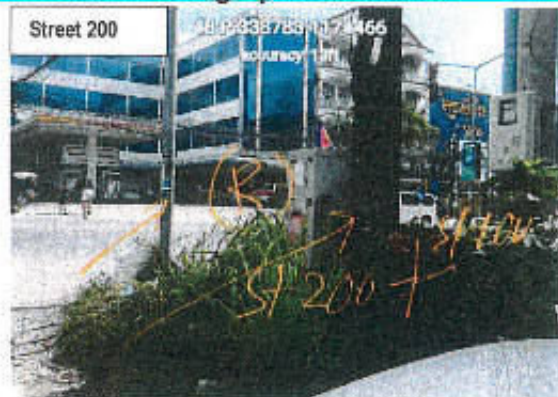
Photograph 41



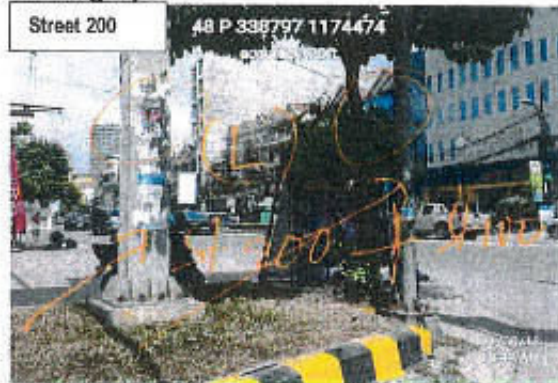
Photograph 42

Handwritten signature/initials in the bottom right corner.

Annex 6: Photographs Street: 200



Photograph 43



Photograph 44



Photograph 45



Photograph 46



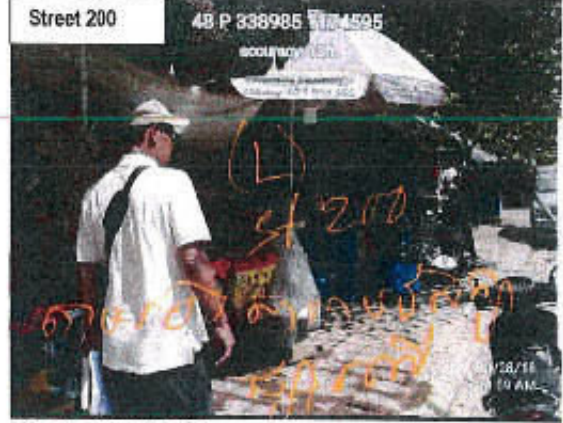
Photograph 47



Photograph 48



Photograph 49

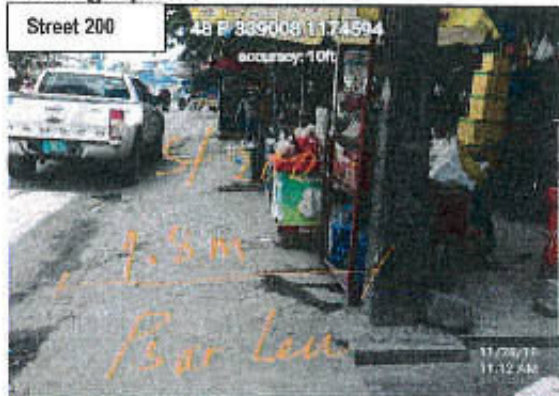


Photograph 50

Handwritten notes in the bottom right corner, including 'D', 'B', and '5/12'.



Photograph 51



Photograph 52



Photograph 53



Photograph 54



Photograph 55



Photograph 56



Photograph 57

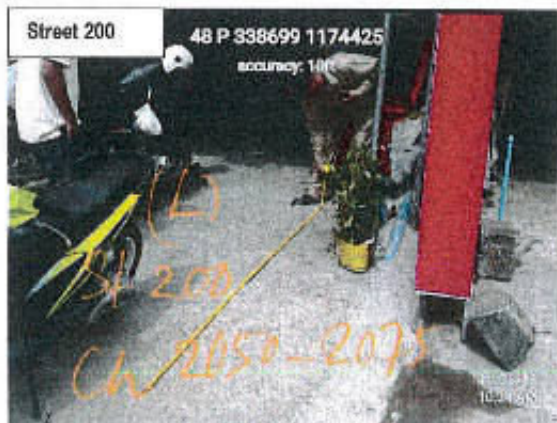


Photograph 58

to KR



Photograph 59



Photograph 60 (km +850 - +875)



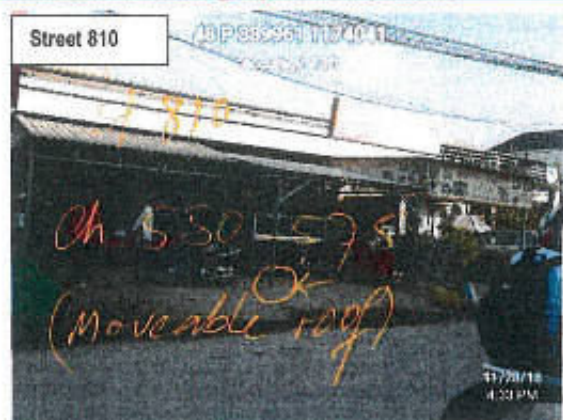
Photograph 61



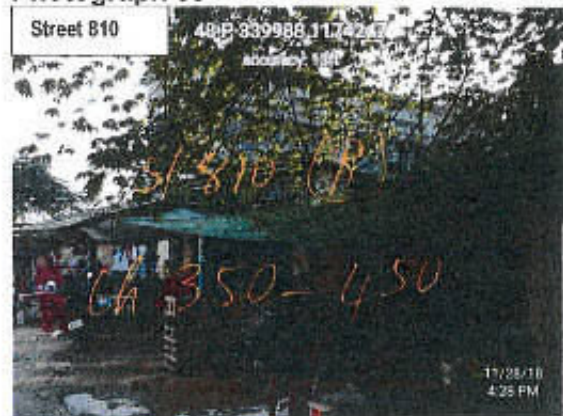
Photograph 62

Handwritten notes and signatures in the bottom right corner.

Annex 7: Photographs: Street 810



Photograph 63



Photograph 64



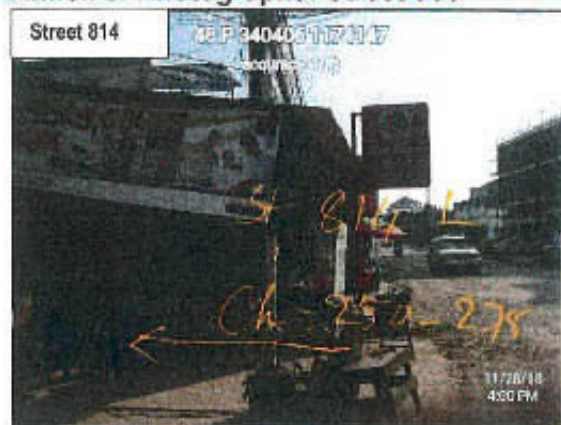
Photograph 65 (km +350 - +450)



Photograph 66 (km +375 - +425)

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Annex 8: Photographs: Street 814



Photograph 67



Photograph 68



Photograph 69



Photograph 70



Photograph 71

8 P
5 KA

Annex 9: Attendance Sheets



គម្រោងអភិវឌ្ឍន៍ក្រុងរៀងរាល់បណ្តាញបណ្តាញទឹកស្រូវ

Second GMS Corridor Towns Development Project

កម្មវិធី ៣៣១៨ CAM

បញ្ជីចំណុច

ប្រជុំពិគ្រោះយោបល់ជាសាធារណៈជាមួយប្រជាពលរដ្ឋ ក្នុងតំបន់បណ្តាញទឹកស្រូវ និងតំបន់ពាក់ព័ន្ធ

ស្តីពីផែនការយុទ្ធសាស្ត្រអភិវឌ្ឍន៍ក្រុងរៀងរាល់បណ្តាញទឹកស្រូវ

ស្ថិតនៅតាមដងផ្លូវជាតិលេខ ៣ ភូមិស្រែចម្ការ ក្រុងស្រែចម្ការ ខេត្តស្រះសីហនុ ថ្ងៃទី២៨ ខែកុម្ភៈ ឆ្នាំ២០១៨

ល.រ No	នាមប្រជាពលរដ្ឋ Name	ភេទ Sex	តំណ Occupation	អង្គការ/ស្ថាប័ន Institutions	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
1						
2	លី ឌីណា	ប	អ្នកកសិកម្ម	សហគមន៍	012 892253	
3	លី ឌីណា	ប	ស្រាវជ្រាវ	PIU	012 988573	
4	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 886718	
5	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	099 882372	
6	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 906633	
7	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	010 809977	
8	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 393857	
9	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 877639	
10	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	092 320086	
11	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	017 99074	
12	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	081 845558	
13	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 610888	
14	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	017 476779	
15	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	066 686376	
16	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	012 871110	
17	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	016 3938032	
18	លី ឌីណា	ប	ស្រាវជ្រាវ	PIU	016 866665	
19	លី ឌីណា	ប	ស្រាវជ្រាវ	Consultant	012 380034	
20	លី ឌីណា	ប	ស្រាវជ្រាវ	NJS/KCL	079 57773	
21	លី ឌីណា	ប	ស្រាវជ្រាវ	ស្ថាប័ន	076 8600322	
22						

Handwritten signature and date 5/4

គម្រោងអភិវឌ្ឍន៍ក្រុងរៀបចំដោយសហគមន៍តំបន់ទន្លេមេគង្គទី២

Second GMS Corridor Towns Development Project

កម្មវិធី ៣៣១៤-CAM

បញ្ជីបង្គោល

ប្រជុំពិគ្រោះយោបល់ជាសាធារណៈជាមួយប្រជាពលរដ្ឋ ពេទ្យាមណ្ឌលជ្រាប និងភាគីពាក់ព័ន្ធ

ស្តីពីផែនការយុទ្ធសាស្ត្រអភិវឌ្ឍន៍ក្រុងរៀបចំក្នុងតំបន់

បង្កើនសកម្មភាព និងជីវភាពរស់នៅ ក្រុងរៀបចំ ខេត្ត ព្រះសីហនុ ថ្ងៃទី២៨ ខែកុម្ភៈ ឆ្នាំ២០១៤

ល.រ No	នាមនិរោធាន្តរាម Name	ភេទ Sex	តួនាទី Occupation	អង្គការ/ស្ថាប័ន Institutions	ទូរស័ព្ទ Phone	ហត្ថលេខា Signature
1	ឆាន់ វិចិត្រ	ប	ប្រធាន	សង្កាត់ ២	0974848104	[Signature]
2	ស៊ិន ស៊ីវា	ប	ប្រធាន	សង្កាត់ ២	091546094	[Signature]
3	ហ៊ុន កំណាត់	ប	ឧបនាយក	សង្កាត់ ៤	016262515	[Signature]
4	ស៊ី វ៉ាន់ ជ័យ		គ្រូបង្រៀន	សង្កាត់ ២	0973693777	[Signature]
5	ស៊ី ឆាន់ វ៉ាន់	ប	ប្រធាន	សង្កាត់ ២	016678473	[Signature]
6	ស៊ី ឆាន់ វ៉ាន់	ប	ក្រសួង	សង្កាត់ ១	011987155	[Signature]
7	ស៊ី ឆាន់ វ៉ាន់	ប	ស្រី	សង្កាត់ ២	016359403	[Signature]
8	ស៊ី ឆាន់ វ៉ាន់	ប	-	-	016235006	[Signature]
9	ស៊ី ឆាន់ វ៉ាន់	ប	ក្រសួង	សង្កាត់ ២	010455550	[Signature]
10	ស៊ី ឆាន់ វ៉ាន់	ប	ក្រសួង ១៣	សង្កាត់ ២	081377363	[Signature]
11	ស៊ី ឆាន់ វ៉ាន់	ប	ប្រធាន	សង្កាត់ ៤	016871110	[Signature]
12	ស៊ី ឆាន់ វ៉ាន់	ប	ក្រសួង	សង្កាត់ ២	016762531	[Signature]
13	ស៊ី ឆាន់ វ៉ាន់	ប	PIU	DPWT SHV	036799692	[Signature]
14	ស៊ី ឆាន់ វ៉ាន់	ប	PIU	DPWT SHV	016864665	[Signature]
15	ស៊ី ឆាន់ វ៉ាន់	ប	PIU	DPWT SHV	016798034	[Signature]
16	ស៊ី ឆាន់ វ៉ាន់	ប	ក្រសួង	សង្កាត់ ២	015989890	[Signature]

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17	කළු කළු	අ. එස්. ඩී.	ලැබ්. ප්‍රොජෙක්ට්	077 579933	ALX
18	සේවා. ප්‍රවේශ	ආ. සේවා. ප්‍රවේශ	ප්‍රවේශ	012962 054	Handwritten signature
19	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	016886718	Handwritten signature
20	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	016.592946	Handwritten signature
21	ප්‍රවේශ - ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	016603615	Handwritten signature
22	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	012 892253	Handwritten signature
23	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	012 653006	Handwritten signature
24	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	012 986554	Handwritten signature
25	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	077 927723	Handwritten signature
26					
27	ප්‍රවේශ - ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	081 845558	Handwritten signature
28	ප්‍රවේශ	ආ. ප්‍රවේශ	ප්‍රවේශ	842986573	Handwritten signature

Handwritten signature

ಪ್ರಾಚೀನವಾದ

១. សេចក្តីផ្តើម៖

លេខសម្គាល់ប្រភេទ	ឈ្មោះប្រភេទ	សមាសធាតុប្រភេទ	បរិមាណ/ឆ្នាំ
១	បណ្ណាល័យ	១. បណ្ណាល័យស្ថាបនា	៧ គ.ម
២	បណ្ណាល័យប្រឹក្សាភិបាល	២. បណ្ណាល័យប្រឹក្សាភិបាល	៣ គ.ម
៣	សាលាបង្រៀន	៣. សាលាបង្រៀន	១០ ហិ.ត
៤	ការប្រកួតប្រជែង	៤. ការប្រកួតប្រជែង	N/A
៥	បណ្ណាល័យស្ថាបនា	៥. បណ្ណាល័យស្ថាបនា	៦ គ.ម
៦	ការប្រកួតប្រជែង	៦. ការប្រកួតប្រជែង	N/A

[illegible][illegible][illegible]

ពិគ្រោះយោបល់ជាមួយអ្នកជំនាញ និងអ្នកពាក់ព័ន្ធនានា ដើម្បីកំណត់យកចំណុចសំខាន់ៗ និងបញ្ហាដែលកំពុងកើតឡើងក្នុងការងារ និងយកចំណុចទាំងនេះមកពិចារណា។

៦. ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

ប្រការនេះមានប្រសិទ្ធភាពខ្ពស់ក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ ដោយយោងទៅលើលទ្ធភាព និងលទ្ធផលនៃការងារ។

- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ
- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ
- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

៧. ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ
- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ
- ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

៨. ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

ក្របខណ្ឌ

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

វិធីសាស្ត្រការងារ

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ក្របខណ្ឌ

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

៨. ការវាយតម្លៃការងារ និងការងារផ្សេងៗ

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

ក្របខណ្ឌ

ក្របខណ្ឌ

ការវាយតម្លៃការងារ និងការងារផ្សេងៗ គឺជាដំណាក់កាលមួយក្នុងការវាយតម្លៃការងារ និងការងារផ្សេងៗ។

Handwritten signature and initials.