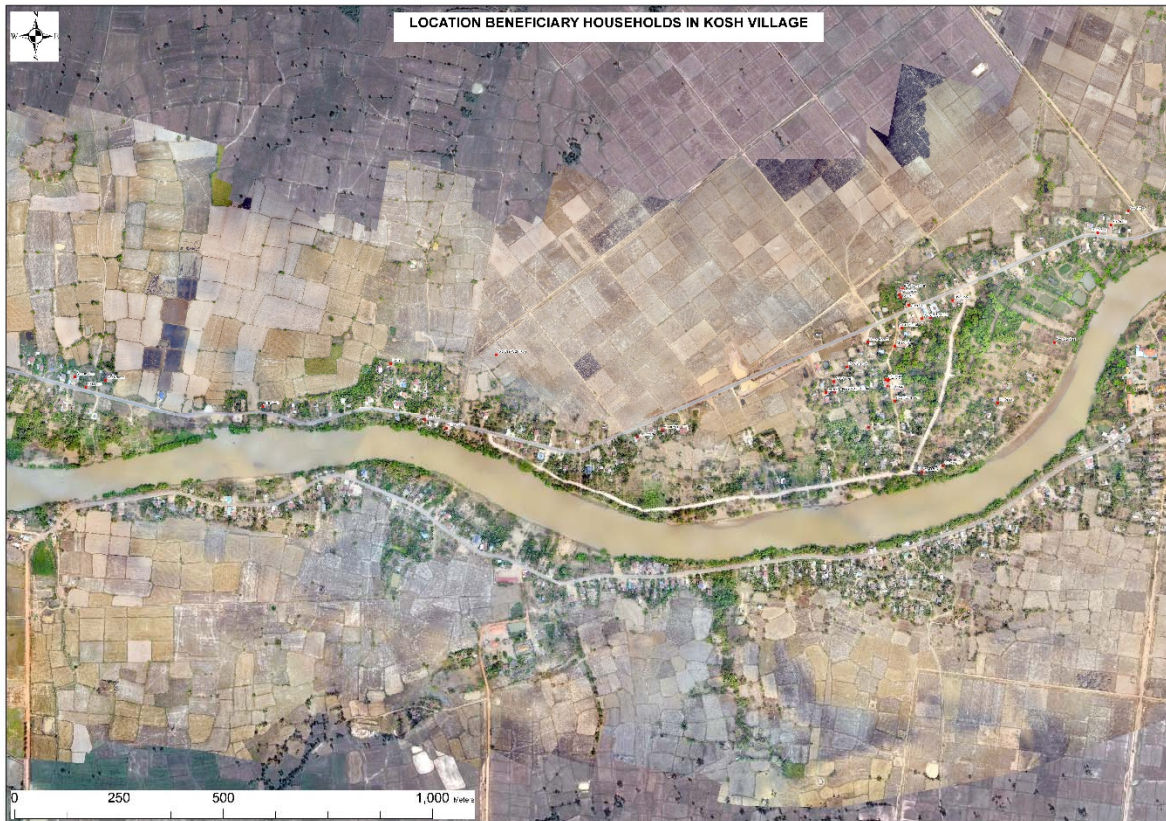




**MINISTRY OF  
PUBLIC WORKS AND TRANSPORT**

**NATION RELIGION KING**



**QUARTERLY PROGRESS REPORT- JUNE –JULY- AUG 2020**

Project: Integrated Urban Environmental Management in the Tonle Sap Basin (RRP CAM 42285-013)

Package IV: NGO Support for Community Mobilization and Environment Improvement

Submitted to Ministry of Public Works and Transport - Government of Cambodia



in association with



## **Preface**

This document is the Quarterly Progress Report prepared for the CMEI project's implementation quarter from June to August 2020.

The major action of the implementation phase has focused on the Due Diligence Report for Pursat and the updating of the designs for the small-scale sanitation ACTION.

The Works have also started on Solid Waste Management in Kampong Chhnang. The Covid 19 restrictions are getting in the way of smooth implementation. However, we have to take utmost care and ensure the safety of the teams, Community and the stakeholders

The other key actions included the continual liaison with the key stakeholders in the project action including the PMIS team, ADB team, MPWT team, Provincial PIU, community representatives and vulnerable community. The team has also increased the liaison with the other aid partners, govt. departments and key focal within the ADB including Gender.

## **Acknowledgements**

This report would not have been possible without the generous contributions of time and expertise of many individuals and organisations. The team would like to express its sincere gratitude to all our partners in this collaborative effort. A number of individuals consulted during the preparation of this Report provided invaluable advice, information and material. The funding for this study came from the Ministry of Public Works and Transport, Govt. of Cambodia project funded by the Asian Development Bank.

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## List of Abbreviations

ADB	Asian Development Bank;
ADPC	Asian Disaster Preparedness Committee;
ASEAN	The Association of Southeast Asian Nations
BBB	Building Back Better;
BER	Bid Evaluation Report
CAR	Climate change adaptation And Risk reduction;
CCA	Climate Change and Adaptation
CCDM	Commune Council Disaster Management;
CHF	Cambodian Humanitarian Forum;
CMEI	Community Mobilization and Environmental Improvements
DDR	Due Diligence Report
DMS	Detailed Measurement Survey
DRR	Disaster Risk Reduction
EGM	Effective Gender Mainstreaming;
EMP	Environmental Management Plan
GAP	Gender Action Plan;
GMS	The Greater Mekong Sub region
GOVT	Government
HH	Head Household;
HHP	Health and Hygiene Promotion
HVCA	Hazard Vulnerability Capacity Assessments;
ID	Identification Card;
IEC	Information, Education and Communication;
IEE	Initial Environmental Examination
IEIA	Initial Environmental Impact Assessment
IRC	Inter-ministerial Resettlement Committee,
KPCH	Kampong Chhnang;

LRRD	Linking Relief Recovery to Development.
MEAL	Monitoring Evaluation and Learning;
MEF	Ministry of Economy and Finance,
MOH	Ministry of Health;
MPWT	Ministry of Public Works and Transport;
MRD	Ministry Rural Development;
MTR	Mid Term Review
NCB	National Competitive Bidding;
NGO	Nongovernmental organizations,
O & M	Operation and Maintenance
ORS	Oral Rehydration Solution
PADEK	Partnership in Development in Kampuchea;
PAH	Project Affected Households
PAM	Project Administration Manual
PCC	Provincial coordination committee,
PD	Project Director
PDOWA	Provincial Department of Women's Affairs
PDPWT	Provincial Department of Public Works and Transport
PDRD	Provincial Development of Rural Department;
PIU	Project implementation unit,
PMIS	Project management and implementation support,
PMU	Project management unit,
PVCA	Participatory Vulnerability and Capacity Assessments;
RP	Resettlement Plan
SADD	Sex Age Disaggregated Data
SPS	Safeguard Policy Statement
TOR	Term of Reference;
TSUADF	The Tonle Sap Urban Areas Development Framework
UNDP	United Nations Development Program;

UNEP	United Nations Environment Program;
UNFCCC	United Nation Framework Convention on Climate Change
VDMG	Village Disaster Management Group;
VO	Variation Order;
WASH	Water, Sanitation and Hygiene;
WCCC	Women and Children's Consultative Committees;
WEDC	West East Development Cambodia;
WWTP	Waste Water Treatment Plan

# ចលនាសហគមន៍ និងការកែលម្អបរិស្ថាន

## Community Mobilization and Environmental Improvement



### 1. Project –CMEI

- The CMEI project supported by MPWT and funded by ADB is being implemented across the vulnerable areas of Cambodia. The Project looks at the interconnections between infrastructure developments, urban management, water and climate change in Tonle Sap Region specifically in the two provinces of Pursat and Kampong Chhnang in Cambodia.
- The Ministry of Public Works and Transport and provincial departments of public works and transport of Kampong Chhnang and Pursat are wholly responsible for the implementation of ADB financed projects, as agreed jointly between the borrower and ADB, and in accordance with Government and ADB’s policies and procedures. ADB staff is responsible to support implementation including compliance by Ministry of Public Works and Transport and provincial departments of public works and transport of Kampong Chhnang and Pursat of their obligations and responsibilities for project implementation in accordance with ADB’s policies and procedures.
- The agencies PADEK and WEDC have been awarded the project output: CMEI under the project titled “Integrated Urban Environmental Management in Tonle Sap Basin” This is part of a larger mandate to help develop the Tonle Sap basin. CMEI’s output is working to translate Project principles into community action. This includes support for community planning and prioritization, and provision of community-driven climate-resilient urban environmental infrastructure. The involvement of local communities, including poor, vulnerable and ethnic Cham and Vietnamese, in planning, decision-making and supervision of the works will encourage local solutions and greater accountability of the services delivered. It will help to create ownership and provide benefits to those often marginalized and vulnerable.

#### 1.1. Project Outputs and Outcomes

- The project aims to address the climate change and environmental needs of the urban poor and vulnerable, including ethnic Cham and Vietnamese in Kampong Chhnang and Pursat—making the project more inclusive by extending benefits from large infrastructure investments.
- It includes improved household sanitation for ID Poor 1 and 2 in the current municipality area; climate change and hygiene awareness and action; and community small-scale infrastructure improvements in pre-identified poor and vulnerable areas in each municipality. Small-scale infrastructure improvements will be prioritized by the communities and will be financed by the project, national government, and community. The output will help extend project benefits to the poor and vulnerable groups.
- The output includes the following sub-outputs and activities:

- a. Household sanitation grants for ID Poor 1 and ID Poor 2 households within the defined municipality area).
- b. Information, Education and Communication (IEC) activities to promote project awareness, hygiene awareness, initiate behavioural change and disseminate climate change information to men and women. The project area for the IEC efforts will include Sangkats in the existing municipal boundary and adjacent urban Sangkats. It will generate information and opportunities for knowledge management to further strengthen the knowledge management aspects of the project; and,
- c. Small-scale infrastructure improvements in Sangkats that are pre-identified by the project survey as being poor and vulnerable to poor urban environmental conditions (e.g., community sanitation, improved drainage with access roads, or community collection points for solid waste management). These components will connect directly with Output 1 and 2 investments to ensure that local communities are also direct beneficiaries. Communities residing in the urban Sangkats of the existing municipal boundary area will be eligible for assistance.

## **1.2. Key benchmarks for project implementation**

- a) Address the climate change and environmental needs of the urban poor and vulnerable, including ethnic Cham and Vietnamese in Kampong Chhnang and Pursat.
- b) Making the project more inclusive by extending benefits from large infrastructure investments.
- c) Improved household sanitation for ID Poor 1 and 2 in the current targeted municipality areas; climate change and hygiene awareness and actions;
- d) Small-scale infrastructure improvements prioritized by the communities and financed by the project, national government, and community.
- e) Help extend project benefits to the poor and vulnerable group by the end of project period.

## **1.3. CMEI Approach**

- The project has adopted an integrated WASH approach covering the following key action agendas:
  - a) supports effective processes to manage water and sanitation systems assisting in establishment of Water Trust Funds, Drinking Water Users Associations and local networks of stakeholders, as well as help in the development of Water Safety Plans,
  - b) supports various abovementioned stakeholders in constructing and managing water and sanitation systems in project target villages; and
  - c) Ensures a civil society and govt. collaborative monitoring mechanism is in place at urban municipal level so that consumers, operators and other stakeholders can hold a constructive dialogue over management in water consumption area.

## 1.4. Operational Geography: Kampong Chhnang & Pursat Provinces

- The project is being implemented in the Tonle Sap Lake Basin geography. The Tonle Sap is the largest body of water in Cambodia ebbs and flows depending on the time of year. The Sangkats of operation of CMEI have been pre-identified for inclusion in the small-scale infrastructure improvements.

- The project covers 2 provinces

**Table 1: Operational geographical details**

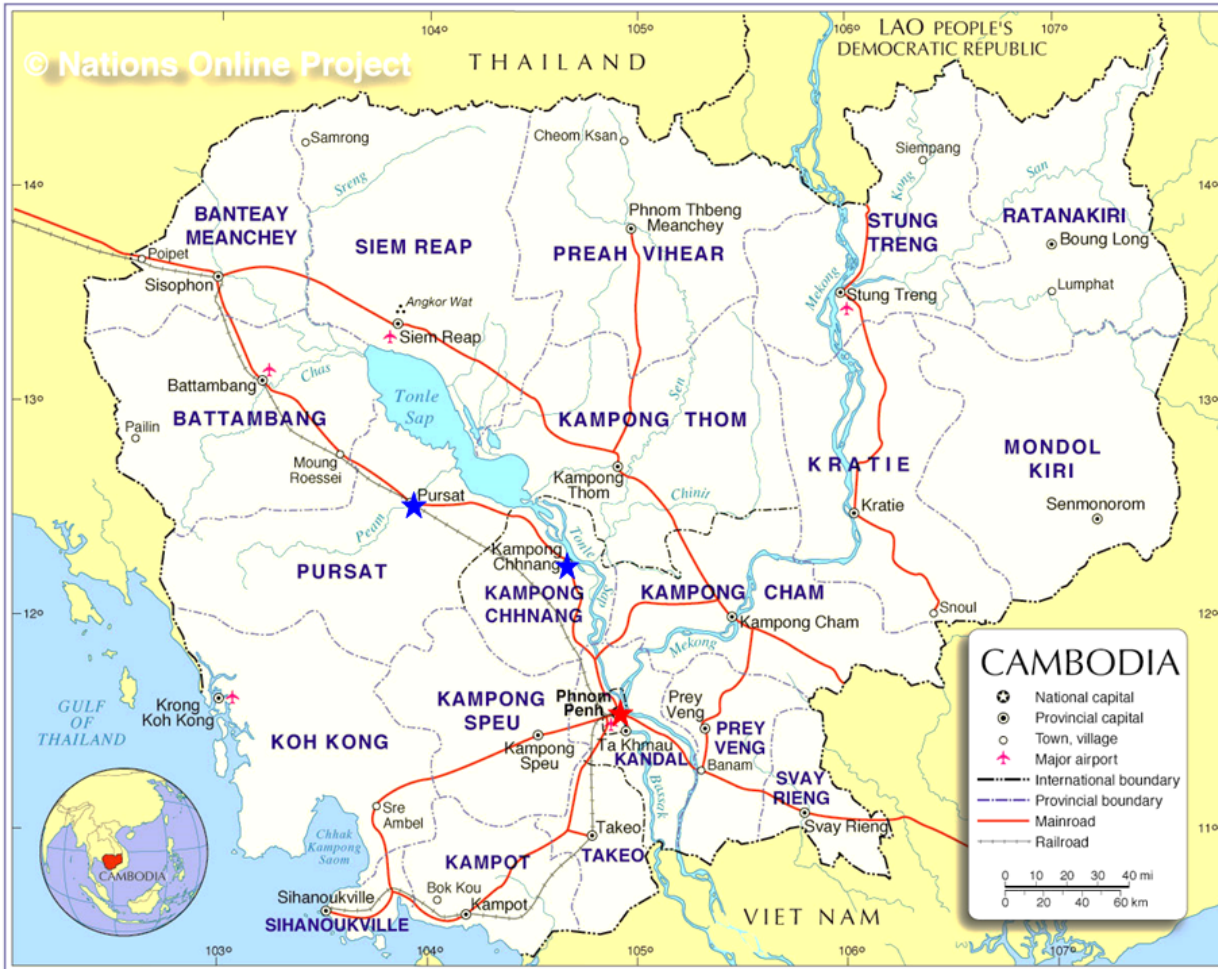
S.No	Geography- Province	Focus areas	Focus Areas
1.	<b>Kampong Chhnang Municipality</b> (Total 7,928 households or 40,360 people. Covers 26 villages in 4 Sangkats)	Kampong Chhnang Town	Samrong village, Chong Kosh village and Kandal village.
2.	<b>Pursat Municipality</b> (Total 13,314 households or 63,773 people. Covers 66 villages in 7 Sangkats)	Pursat Town	Kbal Hong village, Toul Makak village and Kos village

- Based on the evolving operational environment, the villages might change in consultation with the other components of the project and the MPWT. For each additional community, detailed needs assessment will be carried out and submitted to the MPWT.

**Table 2: Geolocation of the operational villages**

Province	Commune	Village	Latitude	Longitude
Pursat	Pursat	Kbal Hong	12°32'53.86"N	103°55'10.27"E
Pursat	Roleab	Toul Makak	12°30'24.69"N	103°57'40.42"E
Pursat	Lo Lork Sar	Kos	12°30'17.39"N	103°53'52.82"E
Kampong Chhnang	Phsar Chhnang	Samrong	12°15'31.92"N	104°40'29.63"E
Kampong Chhnang	Phsar Chhnang	Chong Kosh	12°16'16.82"N	104°40'35.31"E
Kampong Chhnang	Phsar Chhnang	Kandal	12°15'57.13"N	104°41'5.74"E

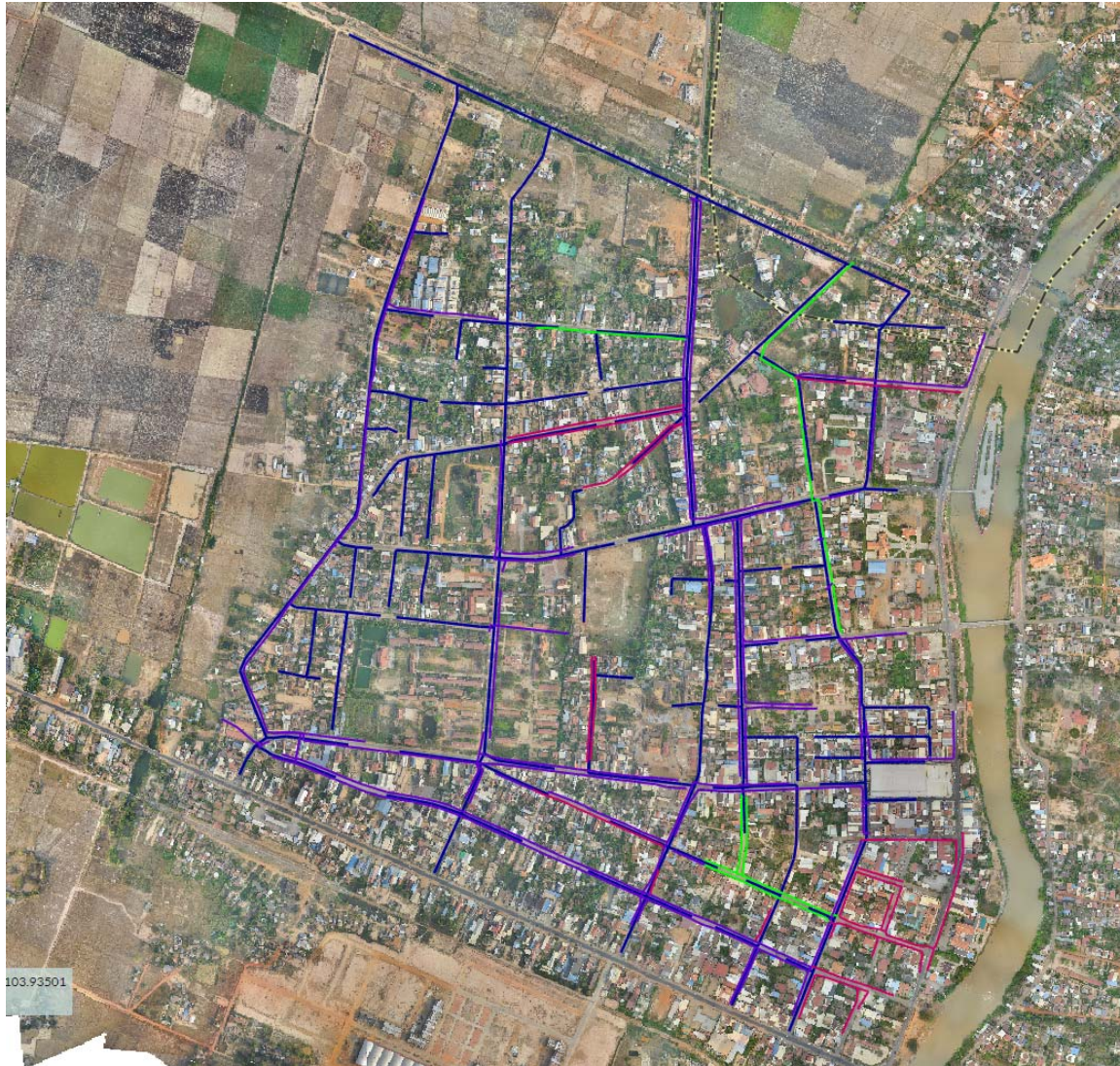
**Map 1: Map of the operational areas**



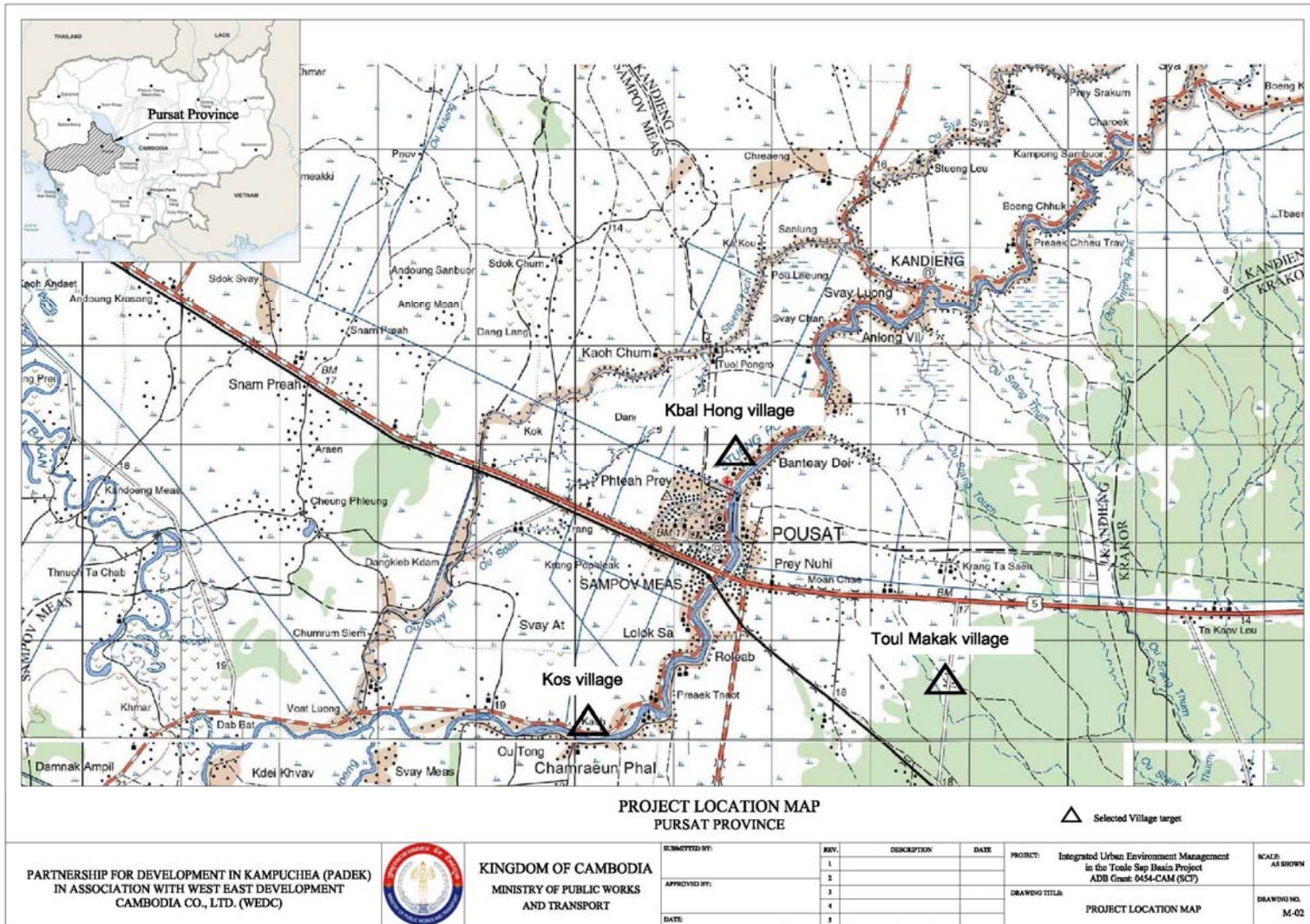
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**Community Mobilization and Environmental Improvement CMEI**



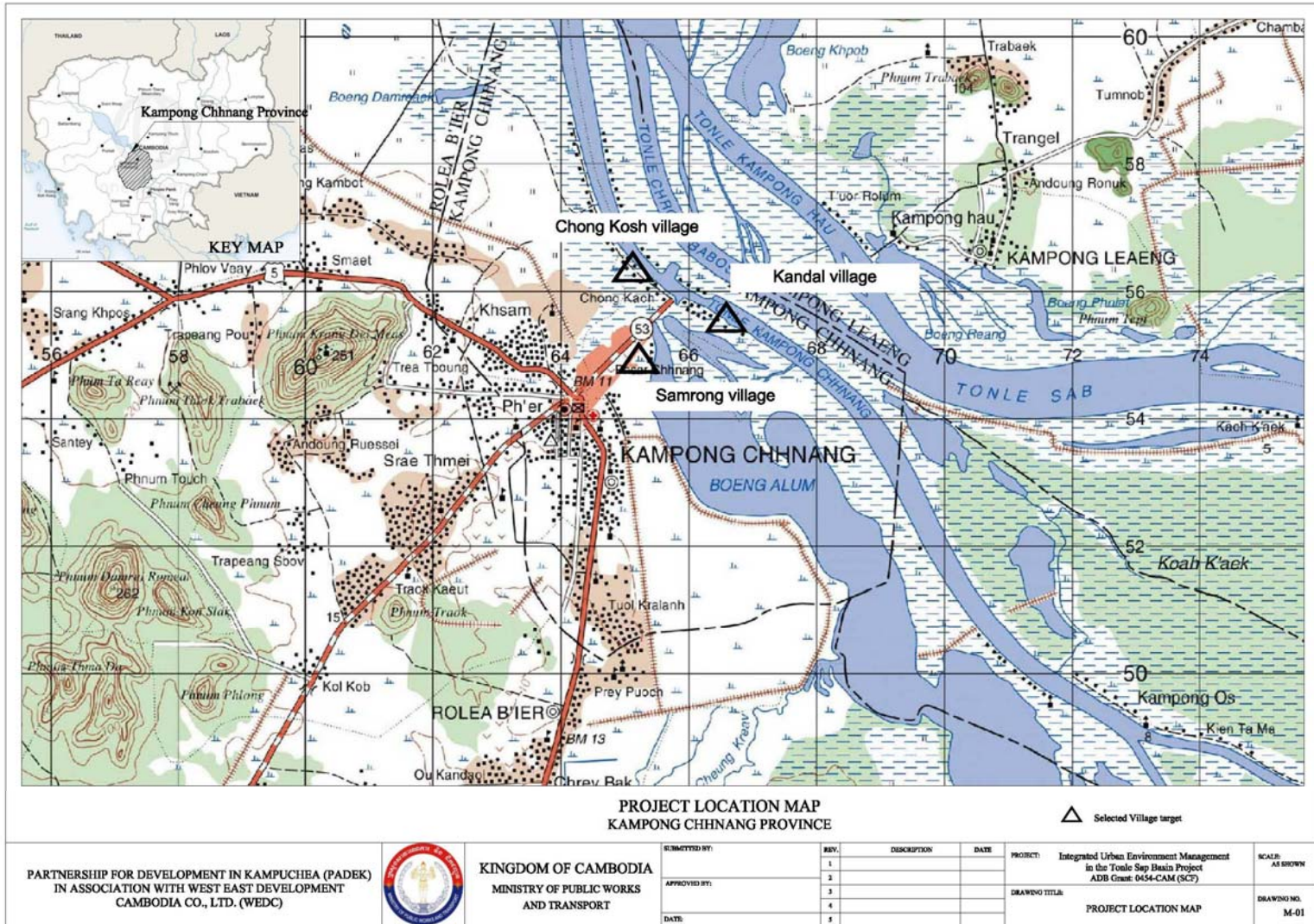
**Map 2: Pursat Network Areas**



**Map 3: Location of the Operational Villages in Pursat**



**Map 4: Location of the Operational Villages in Kampong Chhnang**



## **2. Project Implementation Updates**

### **2.1. Hygiene Promotion and Covid 19 information sharing**

- The hygiene promotions training including Covid Information sharing in the field have been completed in the two provinces for all 6 villages.
- The trainings were attended by teachers, village representatives, youth representation and focal government staff/.
- The topics covered included Public Health, positive parenting tips, and covid19 safeguards. The project liaised with Save the children, UNICEF and WHO to secure leaflets on Covid 19 safeguards and distributed them in the operational geography.
- The project attained permission from the Ministry of Health, UNICEF and WHO for reprinting the IEC posters on Public health, Covid 19. These have been mass-produced and distributed in the field.
- The posters carry the logos of the ADB, MPWT and the implementation partners with agreement of the above-mentioned development partners.
- We are in the process of running a series of mass awareness programme across the two provinces with the use of mobile multimedia options (vehicle mounted).
- The content of all posters have been consulted with the gender teams of the ADB prior to printing and dissemination.

### **2.2. CW09-Small Scale Sanitation Action in Pursat**

- The Small-scale toilet works in Pursat is still in the design phase in the current quarter.
- The designs of the latrines have continued to undergo revisions based on the suggestions and requirements. The project CMEI has continually complied with the needs.
- The full set of the documents from the consultant side has been shared with the PMU in mid July 2020 for the two villages with insitu solutions.
- The current proposed package includes
  - a) Ventilated Improved Pit Latrines
  - b) Water Purifiers
  - c) Roof tap and drainage pipes for rain water harvesting
  - d) Jars for water storage
- There are reports that since the data capture, a few households have been building latrines or are in the stages of building.
- The field teams are facing slow but steady discontent and query on the state of the finalisation of the action given the delays. We have been meeting the proposed beneficiaries and updating them on the progress of the action.
- The project has designed self-declaration forms for the beneficiaries to provide land for the proposed actions, promise support and access and an undertaking that they will maintain the support provided over time.
- The TL has also worked and shared the first draft of the Due Diligence report (DDR) in the month of July which was informed to be a requirement for the bidding documents.

- We are compiling the data of the beneficiaries on the SW Maps application which records the spatial information of each beneficiary.
- **Land Tenure Titles**
- The team has also spent time in ascertaining the land title information of the beneficiary. We collected information on the soft and hard titles and types of Cambodian Property Titles:
  - a. **Hard Title**
    - Hard title is the strongest form of property ownership in Cambodia
    - Hard title is a land ownership certificate provided by the Land Management and Planning office.
    - Hard titles contain detailed information that has been duly recognised and certified at a national level with the Ministry of Land and the concerned cadastral office.
  - b. **Soft Title**
    - Soft title is the most common form of ownership and the most commonly issued Cambodian land title as the transfer taxes and fees are cheaper than a Hard Title.
    - It is estimated that 85% of Cambodian property owners only have Soft Titles to back up their property claims.
    - It is a Cambodian land title that is recognised at the local government level (Sangkats & Khans)
    - Soft titles are provided by the local Sangkat or District office and are not registered at a national level - but are still considered a valid legal document of ownership.
    - Soft Titles are relatively cheaper and quicker to acquire for Cambodians
  - c. **Land Management and Administration Project (LMAP) Title**
    - The LMAP Title is another property ownership title issued and recognised on a national level by the Ministry of Land Management, Urban Planning and Construction (MLMUPC) - along with the relevant cadastral offices.
    - The main difference of the LMAP Title from a Hard Title is its inclusion of the exact GPS coordinates that determine the boundaries of the property in question.
    - LMAP Titles can only be obtained on land that has been indexed on a cadastral map. So, if a plot of land has not yet been indexed, an LMAP Title cannot be issued for that property.
- **Household and Beneficiary data**
- The current as of now (24th Aug 2020) is as follows

Current data of Households – beneficiaries for the toilet support

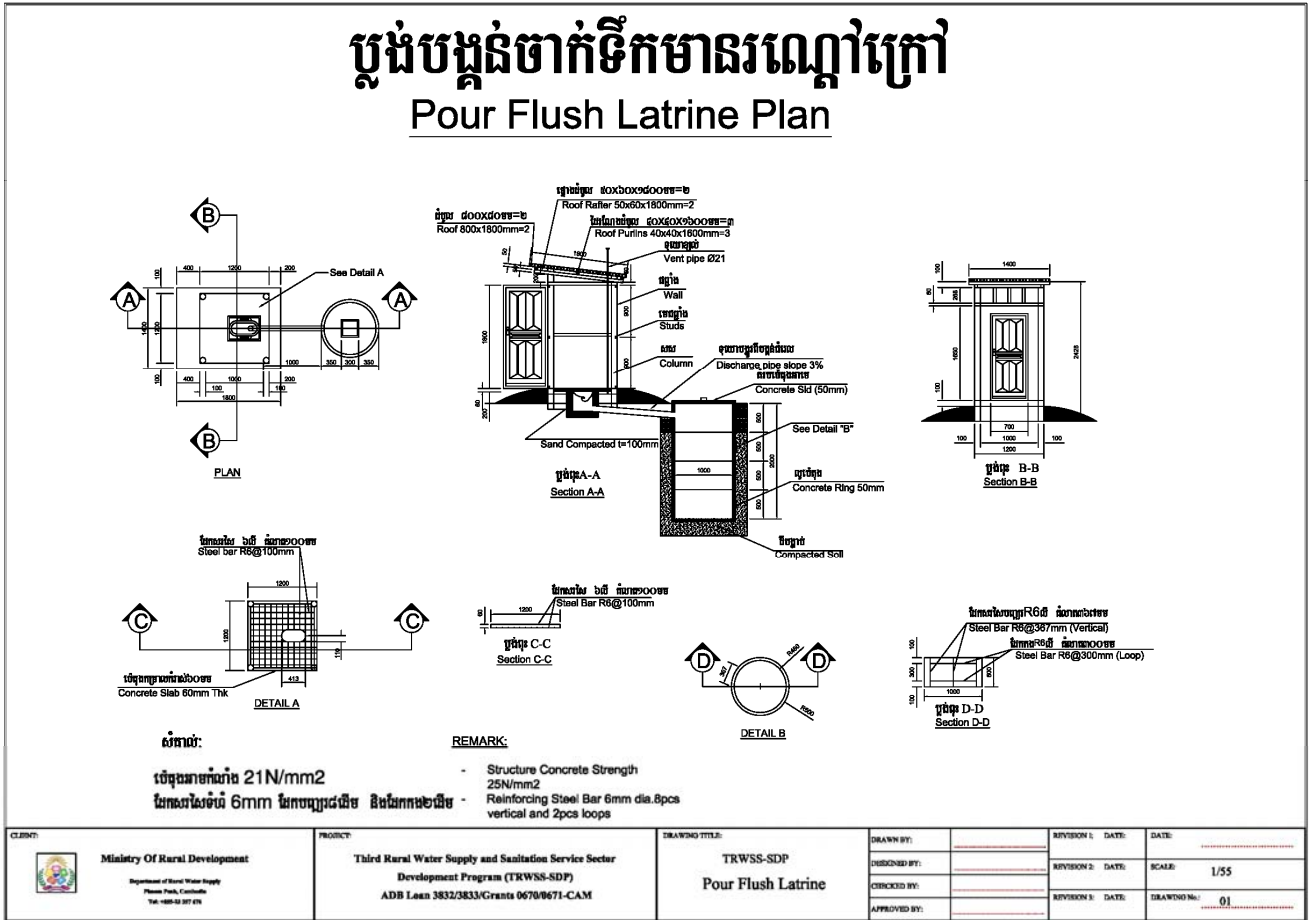
S.No	Village	ID Poor 01	ID Poor 02	Total
1	Toul Makak	31	35	66
2	Kosh	36	5	41
	<b>Total</b>			<b>107</b>

Current data of Households – Package wise

S.No	Intervention Measures	Details	Total HHs	Toul Makak	Kosh
1	Household Latrines (VIP)	1 per HH	107	66	41
2	Household Water Filters	1 per HH	107	66	41
3	Water Storage Containers (Concrete)	4 per HH	107	264	164
4	Household Roof Water Harvesting Support	1 set per HH	107	66	41

- The team has also produced high resolution mapping results with every prospective beneficiary household mapped on a GIS platform.
- **Suggestions to add a base for the water storage containers**
  - The revised designs were shared again on 28 Aug 2020. As per the suggestions in the DDR – the options for the base for storage container was explored.
  - The engineer has worked out the design and costings which increased the cost further.
  - The costs are high given that we are providing 4 containers and a sizeable areas needs to be covered for the base.
  - The rural water supply project had not provided this support (they had provided 3 jars), they had mentioned the following:
    - The household is required to provide a raised (300mm) concrete platform for the jar(s) and provide a standard area of roof with guttering for capturing and diverting rainwater to the jars.
    - The process requires the household to formally accept the requirements placed on the recipient household.
    - The land requirement is within the parcel of land occupied by the household receiving the rainwater jars.
    - The investment project provides for up to three jars for the households requiring improved collection and storage of rainwater.
- **Other updates to the design and costings**
  - **Use of Volunteer labour:** this component was taken out from the main construction action lines in order to avoid any confusion. We will encourage the community volunteering more towards the landscaping actions at the site on a personal level as this is an individual household action.
  - **Zinc on the side walls:** this was discussed with the communities and this is the usual practice when building, so it is advisable to go with it
  - **A single pit design** is sufficient as per the current practices, needs and is manageable by the communities. This was after the full design specs and costings were prepared for two septic tanks options, HDPE tank options

- **Suggestions on referring MRD designs -24<sup>th</sup> July 2020**
  - The bank suggested checking the MRD design under the ADB's rural sanitation projects in Pursat.



The following response was provided:

- Both the designs (CMEI and ADB rural sanitation project) are very similar
- The difference is that the MRD design doesn't consider flooding of the area as the superstructure is only put on a raised mount of 60 cm.
- Most latrines constructed in the Pursat area were found to be at surface level even though the flood levels in these areas is between 0.5 and 1 m.
- The superstructure has masonry walls which look nicer than the proposed corrugated sheet walls in the CMEI design.
- As both the superstructure and the tank will have to be raised above flood level the CMEI design does not separate the tank from the superstructure as the connection pipe would remain exposed, unless the whole area around the tank and superstructure is backfilled, which is not considered because of the high cost.
- The ADB design shows a layer of compacted soil around the tank and under the tank. This should not be done as it would severely limit infiltration from the tank into the ground. The

bottom of the tank and the lower ring should be porous. To facilitate infiltration it is often recommended to put a layer of gravel on the bottom of the tank and around the porous lower ring. Because of the high cost this is not included in the CMEI design, apart from a thin layer of gravel on the bottom of the tank.

- The ADB design shows a depth of 2m below the surface for the tank/pit. Considering the high groundwater level in the CMEI areas, such a depth is not recommended, the bottom of the tank/pit should be above the dry season groundwater level.
- A key difference seems to be that the ADB Rural project did not construct the superstructure for the beneficiaries, but we are. Which is part of the cost difference.
- **Undertaking agreement with the beneficiary Household**
  - The project deliberated the prospects of entering into an agreement with the households in May-June 2020.
  - This was also discussed with the PMIS TL. We observed the following:
  - PADEK cannot enter into an agreement with the beneficiary HH. This would only be possible if PADEK would be directly responsible for the investment funds, or in other words if these funds were included in the PADEK contract, which they are not.
  - Hence, we will not make this an agreement but just a simple certificate in which the beneficiary confirms he is the legal owner, agrees with the proposed sanitation improvements, agrees to make his land available for the installation of the facilities and cooperate with the installation and commits to the maintenance of the asset.
  - PADEK is only working in a support/advisory capacity, the implementing agency for the project.

### **2.3. Due Diligence Report - UXO Clearance- Pursat**

- The work on the Due Diligence Report (DDR) continued in the current phase of Implementation with multiple rounds of correspondence and mail exchanges
- In the month of August 2020, the project was asked to confirm the clearance of UXO's from the proposed areas in Pursat. The bank asked to find out if there are any records in these two villages on UXO – Unexploded Ordnance like mines from the old days of the war.
- This was informed to be a necessary requirement for the clearance of the bidding action and forms part of the environmental report,
- The team immediately started to assess the following:
  1. if there are any records in these two villages on UXO
  2. if there were any incidents,
  3. if any UXO were found,
  4. if there has been any UXO detection surveys in these villages
- We contacted the Cambodia Mine Action Centre (CMAC), they did not have the maps for the UXO- only for the mines. We also contacted Cambodia Mine Authority – CMAA- Cambodian Mine Action And Victim Assistance Authority (CMAA). We provided the village maps and the coordinates of the location.

- We provided the latitude and longitude as well as the UTM details (as CMAA had asked for this earlier)

Province	Commune	Village	Latitude	Longitude	UTM Easting	UTM Northing	UTM ZONE
Pursat	Pursat	Kbal Hong	12°32'53.86"N	103°55'10.27"E	382616.59 m E	1387424.65 m N	48 P
Pursat	Roleab	Toul Makak	12°30'24.69"N	103°57'40.42"E	387130.22 m E	1382823.65 m N	48 P
Pursat	Lo Lork Sar	Kos	12°30'17.39"N	103°53'52.82"E	380259.01 m E	1382627.18 m N	48 P

- We are hopeful that the DDR will be finalised in the next quarter of implementation

#### 2.4. Partnership with Save the Children

- In the month of June 2020, CMEI project collaborated with save the children on Covid 19 response and carried out training sessions on positive parenting in kampong channang and Pursat. The Padek teams in other provinces also used the same mode in Siem Reap and Ankor Thom. The project used leaflets on the need for positive parenting especially in the context of the Covid 19 situation. The training was well received in both the provinces (see annex)
- We have used the leaflets in a training cum sharing session wherein the PADEK team members trained key community stakeholders in the provinces of Kampong channang, Pursat, Siem Reap and Ankor Thom.
- The response of the materials was very good and in the times of Covid19, the communities are in need of such awareness raising and materials.

#### 2.5. Solid waste management

##### Status

- We have drafted a questionnaire for Solid Waste Management in May-June 2020
- This is to collect the information and understand the capacity of the present SWM system and work towards remedial options.
- We have completed two pilots in Kampong Channang and Pursat already (June 2020)
- The draft was further streamlined based on the pilots in the two provinces and this has resulted in two sets of questionnaire emerging- one for the households and the other one for the province level officials.
  - a. Official questionnaire to be filled with the concerned official responsible for the collection and disposal of Solid Waste in Kampong Channang and Pursat respectively.
  - b. Household questionnaire to be filled with minimum five households in each village (3x5=15) and five each in other villages within the KPCH municipalities.
- The two questionnaire were shared with ADB team and PMIS TL for feedback and inputs (mid-June 2020)
- We are also working on a detailed questionnaire for the senior officials responsible for

SWM, which will be a top line action to be run with the officials in Phnom Penh.

- We are also in the process of mapping the waste pickers and making a directory of the field operatives connected with the solid waste management actions. Once finalized, we will run this in the two provinces on a digital data collection platform and come up with the findings.
- These findings will be helpful in providing a clear understanding of the present situation and help in designing the package to cater to the needs of the people.

### **Training on Solid Waste Management**

- In the field of Solid Waste Management, we are working on delivery of Training on SWM by CCA Advisor . We have worked on the for the SWM Management survey in the provinces and the original plan was for the month of October – which may change due to the ongoing Covid restrictions.
- The training will cover :
  - linkages of CCA as an important consideration for the Solid Waste Actions in small towns and municipalities
  - How much waste is generated and how does it impact the Climate around us
  - What are key harmful elements of the garbage
  - How to dispose the garbage generated in a safe manner
  - Focus on the enormous plastic waste generation and how to dispose it safely
  - Focus on community awareness and ways to enhance the community ownership
  - Come up with small related actions for speeding up the action
- The team has referred the “State of Waste Management in Phnom Penh, Cambodia” document, which has been very beneficial for the proposed actions.

### **SWM Questionnaire**

- The Solid Waste Management questionnaire was field tested with a individual select groups of households , officials, and waste pickers.
- This was shared with the Bank for feedback. The questionnaire and the related actions were also discussed with agencies involved with some work including the Global Green Growth Institute, which has similar operations in Battambang, and Siem reap. The questionnaire is being updated based on the feedback revised.

### **Coordination with GGGI in July 2020**

- The CMEI project had interesting meetings with the Global Green Growth Institute. We see potential convergence points on SWM and other areas where we could come together and work.
- The TL met with Jerome from global green institute last week. We had some good discussion on the SWM work possibilities. The TL will plan to visit their programme areas soon to get a detailed overview of the works. We also shared the SWM questionnaires with

him for additional inputs.

## 2.6. Kampong Channang

- The TL visited kampong channang and had individual meetings with the three villages chiefs, key stakeholders including women members, religious leaders.
- We looked at the needs and there are some ideas that we can action in the phase 02 of cw09 for KPCH. This will be community based actions unlike Pursat which are largely household based (excluding the SWM fixtures). The thrust of the KPCH interventions will be on SWM and will not affect anything on the contentious location of the embankments and villages.
- In the month of August 2020, the data on the CMEI operational villages in kampong Channang was updated as follows:

Village	Total Number of family	Total ID poor Households	ID poor 01	ID poor 02
Kandal	248 families	82 HHs	15 HHs	67 HHs
Samrong	438 families	138 HHs	71 HHs	67 HHs
Chong Kosh	194 families	89 HHs	25 HHs	64 HHs

- We have also identified 3 additional villages where we can work on if these 3 villages (original CMEI project villages ) have to be dropped due to the embankment cancellation.
  - a) Phoum Mouy village of Ksam Commune (Sangkat)
  - b) Phoum Pram Pii village of Ksam Commune (Sangkat)
  - c) Phoum Tmey village of Ksam Commune (Sangkat)
- in terms of the key actions being pursued in the province are as follows:
  - a) filtration system in canal near Samrong – designs, BOQ and plan
  - b) placement of Information boards and full costings and plan
  - c) Gender training

Within these actions, we are working on the detailing of these actions:

  - 1. filtration system in KPCH canal – designs, BOQ and plan**
    - a. we need the support assured by the pagoda for this action
    - b. agreement with the local authorities for the construction
    - c. talk to the community about the issues of solid waste using the SWM questionnaire we had used earlier and write a small report
    - d. Eng will make the measurements for the designs of the filter and work on the approvals
  - 2. placement of Information boards and full costings and plan**
    - a. Engineer to make a detailed costings for the whole action
    - b. GPS photos to be clicked for all location

c. Detailed report by the Engineer on the action

## 2.7. Action Plan CMEI

- The team has come together in the month of June 2020. The period being considered is from June –December 2020

	Key Actions	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20
<b>1</b>	<b>Solid Waste Management</b>						
1.1	Assessment	#	#		#	#	
1.2	Consultative Meetings - Stakeholder + Community		#	#	#		
1.3	Communication & Awareness Raising campaign		#				
1.4	Hardware Support – Equipment Support		#	#	#		
1.5	Training and Capacity Building		#		#	#	#
1.6	SWM Planning and Management			#	#	#	
1.7	IEC Printing		#		#		
1.8	Approvals and Legal Documentation		#		#	#	
<b>2</b>	<b>Public Health, Water &amp; Sanitation</b>						
2.1	Assessment -Public Health-Gender & Inclusion, Campaigns, Initiatives, Test cases		#		#	#	
2.2	WASH Surveillance - House to House, Provincial, Status Analysis			#	#	#	#
2.3	Consultative Meetings - Stakeholder + Community		#		#		
2.4	Communication & Awareness Raising campaign			#	#	#	#
2.5	Hardware Support -Sanitation, Latrine Construction, Hygiene, Prototype		#		#	#	
2.6	Training and Capacity Building		#	#	#	#	#
2.7	Small Scale Sanitation Action - Hardware-Sanitation Engineering, Lateral connections, Feasibility, Prototypes		#	#	#	#	#
2.8	IEC-Information Boards, Reports, Brochures, Posters, leaflets						
2.9	Approvals and Legal Documentation		#		#	#	

<b>3</b>	<b>Data &amp; Information Management</b>						
3.1	Reporting Actions	#	#	#	#	#	#
3.2	Spatial Data Management	#	#	#	#	#	#
3.3	Publications and Communication Products			#			#

## Details of Action

### 1. Solid Waste Management

#### 1.1. Assessment

Assessment of key needs of the communities, assessment of current facilities in the provinces, assessment of policy environment

#### 1.2. Consultative Meetings -Stakeholder + Community

Meetings with key stakeholder including officials, communities, private sector players and evolving a common agenda for action

#### 1.3. Communication & Awareness Raising campaign

Awareness Raising and Communication campaign within the communities, civil society and officials for better management of solid waste in emerging municipalities

#### 1.4. Hardware Support – Equipment Support

Providing solution for SWM needs emerging from communities' engagement and stakeholder consultations – these may include trash bins, storm water drainages, collection vehicles etc.

#### 1.5. Training and Capacity Building

Capacity building of official and information sector workers

#### 1.6. SWM Planning and Management

Mapping of informal and formal collection agents in the municipalities, digital information management of data and information.

#### 1.7. IEC Printing

Design, printing and dissemination of IEC related to SWM across the municipalities

#### 1.8. Approvals and Legal Documentation

Proper documentation and legal approvals from the authorities for the proposed actions

### 2. Public Health

#### 2.1. Assessment -Public Health- Gender & Inclusion, Campaigns, Initiatives, Test cases

Assessment of key needs of the communities, assessment of current facilities in the provinces, assessment of policy environment

#### 2.2. WASH Surveillance - House to House, Provincial, Status Analysis

Household level mapping and surveillance on Public Health actions and understanding the statues of the outreach of the training actions,

#### 2.3. Consultative Meetings -Stakeholder + Community

Meetings with key stakeholder including officials, communities, private sector players and evolving a common agenda for action

#### 2.4. Communication & Awareness Raising campaign

Awareness Raising and Communication campaign within the communities, civil society and officials for enhanced Public Health Situation in the municipalities including emerging issues like Covid19

### **2.5. Hardware Support -Sanitation, Latrine Construction, Hygiene, Prototype**

Providing need based assessed hardware support to the households and community installations- this may include latrines, small sanitation solution and prototypes

### **2.6. Training and Capacity Building**

Capacity building of official and community members on a training of trainers mode.

### **2.7. Small Scale Sanitation Action - Hardware-Sanitation Engineering, Lateral connections, Feasibility, Prototypes**

This includes the additional grant for small-scale sanitation grants action, which will be contracted through a tender. This will consists of construction of latrines and related support items to promote household sanitation improvements including water filters, concrete storage jars, and roof water harvesting systems,

### **2.8. IEC-Information Boards, Reports, Brochures, Posters, leaflets**

Design, printing and dissemination of IEC related to public health across the municipalities

### **2.9. Approvals and Legal Documentation**

Proper documentation and legal approvals from the authorities for the proposed actions

## **2.8. Documentation**

- The team has continued to work on the works and this phase has been focused on the proper documentation of the actions. In the month of July 2020, we finalised the following:
  - a) **One page consent letter from the home owner for the information board:** acceptance note to be signed by the land owner and the village chief consenting to provide the land for the information board free of cost in the interest of information sharing and public awareness.
  - b) **One page consent letter for the latrine constructio:** acceptance letter is by the home owner to provide correct information to PADEK for the construction of the latrine including ID poor card details, land tenure details and this will be also signed by the village chief
  - c) **One pager letter from the governor of Pursat requesting for lateral connections to the households in Kbal hong**

## **2.9. Communication- information Sharing and Accountability**

- In Kampong channang, there were demands from the community to meet and clarify on the status of the small-scale sanitation programme. The TL visited and had detailed meetings with all three villages and relevant groups updating them about the delays in the actions esp. within KPCH.
- The project is of the opinion that we need to focus on community level actions in KPCH in lieu of direct HH support.
- The project has also worked on the design of information boards, which will be placed, at vantage points in the operational areas to inform the communities about the project action and provide scope and channels for feedback.
- We are getting the approval for the information boards, the designs have been provide. The field teams have identified three locations in the 3 villages for the information boards. We

have worked a one page acceptance note to be signed by the land owner and the village chief consenting to provide the land for the information board free of cost in the interest of information sharing and public awareness.

- The programme updates are being uploaded on the CMEI Facebook page

## **2.10. Coordination Actions**

### **PMIS Engagement**

- The TL worked with the PMIS TL and the PMU for the revision of the DMF. The TL has also worked with the ADB focal on the project management actions.
- There were also a few coordination meetings, which ensured continual liaison with the PMU. The TL also coordinated with the PM specialist based remotely for the project level documents.

## **2.11. Support services and Team Management**

- Padek has a new leadership in the form of Mr. Srei Kosal taking over as the interim director.
- The VO-02 provided for 6-7 months of effective project implementation time for the team. Due to the delays in the project actions due to covid19 and continual demands of updating the actions, the team is running short of man months.
- The project team is engaged on intermittent basis as of now, but in the times of Covid19, alternate employment and engagements are few, which is taking a toll on the team members.
- The project is hopeful that the actions will be fast tracked soon, the implementation actions will start in the field and the community in need will be served after a long wait.

### 3. Images of Project Implementation



*Hygiene Awareness Training Programmes in the provinces*



*Consultations on the Pilot Solid Waste Management Questionnaire*



**Waste Management Challenges in the two provinces**



**Coordination Meeting in PMU**



**Orientation on Covid 19 Safeguards**



*Small Scale Supports for Covid 19 Safeguards*





*Meaningful Consultations with Women Participants*

## 4. Gender and Social Inclusion Plan

- The Gender related actions have been continually updated and the project team is working in close coordination with the Gender focal of the PMIS. The project team met with the gender focal of the PMIS for a detailed catchup meeting and had provided all key testimonials regarding the beneficiary details and the training participants' numbers as well as shared the detailed feedback on the Gender Action Plan (GAP).
- The project is focusing on Women in a major way, targeting the female-headed households within the ID Poor 1 and 2 to ensure better delivery of the CMEI project and also the development of the project documentation for the Sanitation grants. The operational areas is a predominantly agrarian patriarchal society setup.
- The project has continually and meaningfully engaged in consultations with women in Kampong Chhnang and Pursat. This has helped in prioritizing the needs of the women in small-scale infrastructure improvements (e.g., gender-specific requirements for public infrastructure, such as separate latrines for women with trash bins, if appropriate). The project is making all efforts to ensure at least 40% of participants in CMEI activities and training are women. The thrust as informed by the inception stage will be on hygiene IEC campaigns covers topics focused on women (e.g., at least 30% of hygiene campaigns focus on menstrual hygiene and solid waste management) to be prioritized.
- The team attended the Gender training in KPCH on 12 Aug and Pursat on 12th Aug 2020 and 14<sup>th</sup> August 2021
- The TL also requested the PMIS gender focal in July 2021 about the need to organize a quarterly (once in 3 months) joint Gender meeting in the PMU office so that all the components of the project can attend, present their views and actions. This will also ensure that there is proper cohesion and understanding on the gender mainstreaming actions.



**Output 3: Community Mobilization and Environmental Improvement (CMEI)**

**GENDER ACTION PLAN (GAP MONITORING TABLE)**

**Date of Update: 1 April - 30 June 2020**

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Date of Update: July 10, 2020

**Project Title:** Integrated Urban Environmental Management in the Tonle Sap Basin Project (RRP CAM 42285)

**Country:** Cambodia

**Project Number:** RRP CAM 42285

**Type of Project (Loan/Grant/TA):** Loan 0454

**Approval and Timeline:** 10 November 2015 – 30 April 2023

**Gender Category:** Effective Gender Mainstreaming (EGM)

**Mission Leader:** Wei Kim Swain, Urban Development Specialist

**Project Impact:** Increased economic activities and environmental protection in towns in the Tonle Sap Basin.

**Project Outcome:** Improves urban services and enhance climate change resilience in Kampong Chhnang and Pursat municipalities.

GENDER ACTION PLAN (GAP Activities, Indicators, and Targets, Timeframe, and responsibility)	Progress to Date (This should include information on the period of actual implementation, sex-disaggregated qualitative and quantitative updates (e.g. number of participating women, women beneficiaries of services, etc.) However, some would be in process-so explain what has happened towards meeting this target)	Issues and Challenges (Please include reasons why an activity was not fully implemented, or if targets fall short, or reasons for the delay, etc.)
Sanitation grants to IDPoor 1 and 2, including female-headed households if categorized as IDPoor 1 or IDPoor 2.  <b>Action 13:</b> Need more information  <i>Responsibility:</i> PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDOWA, and WCCC	<ul style="list-style-type: none"> <li>The selection of ID Poor 1 and 2 for providing the toilet constructions has already included the female-headed households for sanitation grants project.</li> <li>The toilets are in the final stages of approval from the bank. The total of latrine constructions are 105 HHs (ID poor I = 64 and ID poor II = 41 including 44 women head households).</li> </ul>	

<p><i>Time:</i> 2020 up to 2021</p> <p>Meaningfully consultations with women in Kampong Chhnang and Pursat on priority small scale infrastructure improvements (e.g., gender-specific requirements for public infrastructure, such as separate latrines for women with trash bins, if appropriate).</p> <p><b>Action 14:</b> Need more data</p> <p><b>Responsibility:</b> <i>PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDOWA, and WCCC</i></p> <p><i>Time:</i> 2018 - 2021</p>	<ul style="list-style-type: none"> <li>• The design process for the community interventions in both provinces was informed by meaningful and continual consultations with the project participants (The consultation meetings were conducted on 25-26 February 2020.</li> <li>• Women folk formed the majority of the participants and respondents to the assessments The key issues of access, privacy and special needs were drafted through this process and is well representative of the community needs. prioritized to the women needs, accessibility and privacy as well as use.</li> <li>• The outcomes include- HH latrines and water filters, trash bins and mass awareness campaigns for community level</li> <li>• The Project is studying the public infrastructure options for KPCH, all such structures will be designed will to meet the MRD minimum standard for the toilets</li> <li>• These public infra actions will cover the needs of separate units for women and men along with the provisions of trash bins inside the toilets for managing the women menstrual hygiene management needs as well as needs, accessibility and privacy.</li> </ul>	<ul style="list-style-type: none"> <li>• This action is yet to be approved under the small scale sanitation grants.</li> <li>• Once approved, these committed actions will implemented.</li> <li>• This is subject to the agreement with the provincial authorities and stakeholder groups on O&amp;M</li> <li>• Most of the ground work is complete</li> </ul>
<p>At least 40% of participants in CMEI activities and training are women</p> <p><b>Target 1:</b> Need more data</p> <p><b>Responsibility:</b> <i>PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDOWA, and WCCC</i></p> <p><i>Time:</i> 2018 - 2021</p>	<ul style="list-style-type: none"> <li>• The project has continually ensured that the women participation in the project actions are higher than the set standard.</li> <li>• The Project has conducted trainings topics of Health and Hygiene Promotion, Hazard Vulnerability Capacity Assessment/ participatory vulnerability capacity assessment, Disaster Risk Reduction and Climate Change Adaptation.</li> <li>• A total of 350 vulnerable community members have been trained (please share the copy of attendance lists)</li> <li>• Of the participants, 61% were women (215), 13% were elders (45), 8% were students (27) and 7% were specially abled (7 physically challenged).</li> <li>• The process of design and implementation for CMEI Project is ensuring active women's participation in the target communities and schools in close collaboration and coordination with PIU and PDOWA, WCCCs as well as NGOs who implement WASH activities in the operational Geography.</li> <li>• We are continually engaging with the women folk in the operational geography and we take their suggestion in improving our actions. This action includes the liaison and continual</li> </ul>	<ul style="list-style-type: none"> <li>• The project foresees a continual and higher degree of participation as we move more towards the solid waste management and septage management processes.</li> </ul>

<p>Hygiene IEC campaigns covers topics that are important for women (e.g., at least 30% of hygiene campaigns focus on menstrual hygiene and solid waste management).</p> <p><b>Target 2: Need more data</b></p> <p><i>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDOWA, and WCCC</i></p> <p><i>Time: 2020 - 2022</i></p>	<p>engagement with the key groups and relevant stakeholders.</p> <ul style="list-style-type: none"> <li>• The public health trainings have covered a series of women and child based topics including maternal and child care, mensural hygiene, solid waste management and environmental sanitation and will continue.</li> <li>• 6 trainings had been conducted in both provinces with total of 114 participants.</li> <li>• This action will prioritize, at least 50% of menstrual hygiene and solid waste management topics along with the training actions.</li> </ul>	
<p>Capacity development and IEC materials will be gender-sensitive.</p> <p><b>Action 15: Need more data</b></p> <p><i>Responsibility: PMU, PIUs, PMIS consultants, NGOs, municipal, sangkat (sub-district), commune and village authorities, PDOWA, and WCCC</i></p> <p><i>Time: 2020 - 2022</i></p>	<ul style="list-style-type: none"> <li>• The CMEI Project has published a first round of IEC posters which were certified by MRD and the WATSAN group Cambodia and have been disseminated in the field with good receptivity,</li> <li>• The project team has consulted with the ADB gender focal on the need for newer IEC materials with special focus on Women specific needs- this action will be actioned in the next phase of programming.</li> <li>• The project is continually liaising with other INGOs (Save the Children, Unicef, WHO, People in Need, MRD, Muslim Aid, Action Aid, Oxfam etc) and focus groups for the sharing of relevant IEC materials which are already developed to ensure cost effectiveness (on preparation part) and enhanced options (on dissemination) part.</li> <li>• 5 groups (local authorities, Schools, Health Volunteers, Women Affaire Members and communities villagers/members) were received the IEC materials. Reached 1564 participants (938 females).</li> </ul>	<ul style="list-style-type: none"> <li>• Most of the ground work is complete</li> <li>• The action will be actioned in the next phase</li> </ul>

CMEI = community mobilization and environmental improvements, PDPWT = provincial department of public works and transport, PDOWA = provincial department of women’s affairs, GAP = gender action plan, IEC = information education and communication, IRC = Inter-ministerial Resettlement Committee, MEF = Ministry of Economy and Finance, MPWT = Ministry of Public Works and Transport, NGO = nongovernmental organizations, PCC = provincial coordination committee, PIU = project implementation unit, PMIS = project management and implementation support, PMU = project management unit, WCCC = women and children’s consultative committee.

Source: Asian Development Bank



# Annexures

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

Questionnaire on personnel in charge of municipal solid waste management in the municipality

S.No	Question	Response Type	:	Responses
1	About You and Your Institution			
1.1	About Yourself			
	What is your name?	Text	:	
	Mr.	Tick One	:	
	Ms.	Tick One	:	
	First Name	Text	:	
	Middle Name	Text	:	
	Last name	Text	:	
	House no	Text	:	
	Commune	Text	:	
	Village	Text	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

	Province	Text	:	
	Mobile Number	Number	:	
	Household members	Number	:	
	Female (above 18 yrs.)	Number	:	
	Male (above 18 yrs.)	Number	:	
	Children (Female)	Number	:	
	Children (Male)	Number	:	
	Aged (above 60yrs)	Number	:	
	Specially abled (having a full range of physical or mental abilities)	Number	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

<b>3</b>	<b>Involvement of Private Sector Informal Sector and Community</b>		:	
<b>3.1</b>	<b>Private sector involvement</b>		:	
3.1.1	Does the private sector participate in provision (ការផ្តល់សេវា) of SWM related services in your municipality (ក្រុង)?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1.2	If Yes, Which type of services do they participate in?(Please select all that apply)		:	
a)	Sweeping	Tick One	:	
b)	Collection service	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

c)	Transfer station	Tick One	:	
d)	Transport of waste from the transfer station to a disposal site	Tick One	:	
e)	Final disposal	Tick One	:	
f)	Recycling facility(ies)	Tick One	:	
g)	Others ( Please specify : )	Text	:	
3.1.3	Do you have a written contract with the private sector?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1.4A	Do you think that the private sector works well?		:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1.4B	If "No", why does NOT the private sector work well?(Please select all that apply)		:	
a)	without contract, we cannot control the private sector	Tick One	:	
b)	the contract is not clear	Tick One	:	
c)	not monitored stringently by the authority	Tick One	:	
d)	the private sector is not paid according to the contract	Tick One	:	
e)	the rates of collection are high	Text	:	
f)	others ( Please specify : )		:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

3.1.4B	If "Yes", why does the private sector work well?(Please list the reasons)		:	
a)		Text	:	
b)		Text	:	
c)		Text	:	
d)		Text	:	
e)		Text	:	
<b>3.2</b>	<b>Informal sector involvement</b>		:	
3.2.1	Is(are) there activity(es) of the informal sector? យមិនអ្វីការ?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.2.2A	If "Yes", please specify activity(ies) and approximate number of persons involved in	Text	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

	those activities. ( e.g.: 300 people in collection of recyclable materials on the street)			
3.2.2B	Please specify activity(ies) and approximate number of persons involved in those activities.(e.g.: 150 people in collection of recyclable materials on the street)	Text	:	
3.2.2C	please specify activity(ies) please list all here	Text	:	
	Activity 01		:	
	Activity 02		:	
	Activity 03		:	
<b>3.3</b>	<b>Community involvement</b>		:	
3.3.1	តើសហគមន៍ត្រូវបានជូនដំណឹងអំពីវិធីបញ្ចេញកាកសំណល់ដែរឬទេ?  Is community informed of how to discharge waste?		:	
a)	No	Tick  One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

b)	Yes	Tick One	:	
3.3.2	If "Yes", What are they informed about?		:	
a)	collection day and time	Tick One	:	
b)	separation of waste	Tick One	:	
c)	others ( Please specify : )	Text	:	
3.3.3	How are they informed the above information?		:	
a)	public bulletin	Tick One	:	
b)	public consultation meeting	Tick One	:	
c)	flyers and/or brochures	Tick One	:	
d)	school (in curriculum)	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

e)	municipality's web page	Tick One	:	
f)	official SMSs (text messages from Govt. on mobile)	Tick One	:	
g)	others ( Please specify : )	Text	:	
<b>4.2</b>	<b>Sweeping</b>		:	
4.2.1	Is there sweeping service in your municipality?		:	
a)	No sweeping service provided	Tick One	:	
b)	Yes, sweeping service in the following area	Tick One	:	
a)	city centre	Tick One	:	
b)	public areas such as parks and plazas	Tick One	:	
c)	residential area	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

d)	other areas ( Please specify : )	Text	:	
<b>4.3</b>	<b>Collection</b>		:	
4.3.1A	Collection amount -Do you know how much of waste collected?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.3.1B	If "Yes", please give us either volume (m3/day or m3/year) or weight (kg/ton/day or ton/year)(Please do not forget to include the unit. e.g.: m3 / day or ton/year)	Text	:	
4.3.1C	How do you get the data?		:	
a)	weighbridge at disposal site and/or transfer station	Tick One	:	
b)	estimated by multiplying collection truck's capacity and number of trips	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

c)	others ( Please specify : )	Text	:	
4.3.2A	Collection coverage - Can you identify number of residents who have collection service?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.3.2B	If "Yes", how many are they?		:	
a)	People	Text	:	
b)	Alternatively, you can give us in percentage of coverage in %(e.g.: 50% of municipal population )	Text	:	
4.3.2C	How do you get the data?		:	
a)	collection area map with population data	Tick One	:	
b)	other way ( Please specify :	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

4.3.3A	Collection frequency - How many times do you collect waste in the city centre?		:	
a)	unknown	Tick One	:	
b)	once a week	Tick One	:	
c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
4.3.3B	How many times does your waste get collected in residential area?		:	
a)	unknown	Tick One	:	
b)	once a week	Tick One	:	

កម្រងសំណួរគ្រួសារ - សាកល្បង

Household Questionnaire – PILOT TEST

c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
<b>5.2</b>	<b>Fees of waste services</b>		:	
5.2.1A	Do you charge for waste collection service?		:	
a)	No	Tick One	:	
b)	If "Yes", how do you charge?	Tick One	:	
a)	Independently charge waste collection service fee	Tick One	:	
b)	With water supply bill	Tick One	:	
c)	With electricity bill	Tick One	:	
d)	Any other mode (please provide details)	Text	:	

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Household Questionnaire – PILOT TEST

5.2.1B	How much do you collect for household waste?  : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1C	How much do you charge for commercial waste? : ( Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1D	How much do you charge for institutional waste? : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1E	How much do you charge for other waste? ( Please specify : Please indicate the unit; i.e. XX,XXX KHR/year	Text	:	
5.2.2	Do you charge at disposal site / tipping fee?		:	
a)	No	Tick  One	:	
b)	Yes ( How much per ton? : (Please indicate currency: i.e.XX,XXX KHR/ton )	Text	:	

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Household Questionnaire – PILOT TEST

5.2.3	Do you charge for other waste service?		:	
a)	No	Tick One	:	
b)	Yes ( Please specify : )	Text	:	
<b>7</b>	<b>Needs for Improvement</b>		:	
7.1	Do you need to improve the SWM system?		:	
a)	No	Tick One	:	
b)	If "Yes", please go to 7.2	Tick One	:	
7.2	There may be group of issues in your municipality surrounding SWM, such as A) legal issues, B) Institutional issues, C) Technical issues, D) Financial issues, etc. that need to be addressed.	Text	:	

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Household Questionnaire – PILOT TEST

	Please list the top 3 priority issues and their consent in the order of priority (e.g.; 1) Legal issues for preparation of SWM basic law, 2) Technical issues for final disposal site, 3) Institutional issues,,,,, etc.			
<b>8</b>	<b>Any Comments</b>		:	
	Please give us any comment you may have	Text	:	

កម្រងសំណួរអាជ្ញាធរដែនដី - សាកល្បង

Local Authorities Questionnaire – PILOT TEST

S.No	Question	Response Type	:	Responses
1	About You and Your Institution			
1.1	About Yourself			
	What is your name?	Text	:	
	Mr.	Tick One	:	
	Ms.	Tick One	:	
	First Name	Text	:	
	Middle Name	Text	:	
	Last name	Text	:	
	House no	Text	:	
	Commune	Text	:	
	Village	Text	:	
	Province	Text	:	
	Mobile Number	Number	:	
	Household members	Number	:	

កម្រងសំណួរអាជ្ញាធរដែនដី - សាកល្បង

Local Authorities Questionnaire – PILOT TEST

	Female (above 18 yrs.)	Number	:	
	Male (above 18 yrs.)	Number	:	
	Children (Female)	Number	:	
	Children (Male)	Number	:	
	Aged (above 60yrs)	Number	:	
	Specially abled (having a full range of physical or mental abilities)	Number	:	
<b>2</b>	<b>Involvement of Private Sector Informal Sector and Community</b>		:	
<b>2.1</b>	<b>Private sector involvement</b>		:	
2.1	Does the private sector participate in provision of SWM related services in your municipality?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
2.2	If Yes, Which type of services do they participate in ?(Please select all that apply)		:	
a)	Sweeping	Tick One	:	

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Local Authorities Questionnaire – PILOT TEST

b)	Collection service	Tick One	:	
c)	Transfer station	Tick One	:	
d)	Transport of waste from the transfer station to a disposal site	Tick One	:	
e)	Final disposal	Tick One	:	
f)	Recycling facility(ies)	Tick One	:	
g)	Others ( Please specify : )	Text	:	
2.3	Do you have a written contract with the private sector?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
2.4A	Do you think that the private sector works well?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
2.4B	If "No", why does NOT the private sector work well?(Please select all that apply)		:	

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Local Authorities Questionnaire – PILOT TEST

a)	without contract, we cannot control the private sector	Tick One	:	
b)	the contract is not clear	Tick One	:	
c)	not monitored stringently by the authority	Tick One	:	
d)	the private sector is not paid according to the contract	Tick One	:	
e)	the rates of collection are high	Text	:	
f)	others ( Please specify : )		:	
2.4C	If "Yes", why does the private sector work well?(Please list the reasons)		:	
a)		Text	:	
b)		Text	:	
c)		Text	:	
d)		Text	:	
e)		Text	:	
<b>3</b>	<b>Informal sector involvement</b>		:	
3.1	Is(are) there activity(es) of the informal sector?		:	

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Local Authorities Questionnaire – PILOT TEST

a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1A	If "Yes", please specify activity(ies) and approximate number of persons involved in those activities. ( e.g.: 30 people in collection of recyclable materials on the street)	Text	:	
3.1B	Please specify activity(ies) and approximate number of persons involved in those activities.(e.g.: 15 people in collection of recyclable materials on the street)	Text	:	
3.1C	please specify activity(ies) please list all here	Text	:	
	Activity 01		:	
	Activity 02		:	
	Activity 03		:	
<b>3.2</b>	<b>Sweeping</b>		:	
3.2.1	Is there sweeping service in your municipality?		:	
a)	No sweeping service provided	Tick One	:	

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Local Authorities Questionnaire – PILOT TEST

b)	Yes, sweeping service in the following area	Tick One	:	
a)	city center	Tick One	:	
b)	public areas such as parks and plazas	Tick One	:	
c)	residential area	Tick One	:	
d)	other areas ( Please specify : )	Text	:	
<b>3.3</b>	<b>Collection</b>		:	
3.3.1A	Collection amount -Do you know how much of waste collected?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.3.1B	If "Yes", please give us either volume (m3/day or m3/year) or weight (kg/ton/day or ton/year)(Please do not forget to include the unit. e.g.: m3 / day or ton/year)	Text	:	
3.3.1C	How do you get the data?		:	
a)	weighbridge at disposal site and/or transfer station	Tick One	:	

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Local Authorities Questionnaire – PILOT TEST

b)	estimated by multiplying collection truck's capacity and number of trips	Tick One	:	
c)	others ( Please specify : )	Text	:	
3.3.2A	Collection coverage - Can you identify number of residents who have collection service?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.3.2B	If "Yes", how many are they?		:	
a)	People	Text	:	
b)	Alternatively, you can give us in percentage of coverage in %(e.g.: 50% of municipal population )	Text	:	
3.3.2C	How do you get the data?		:	
a)	collection area map with population data	Tick One	:	
b)	other way ( Please specify :	Tick One	:	
3.3.3A	Collection frequency - How many times do you collect waste in the city centre?		:	
a)	unknown	Tick One	:	

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b)	once a week	Tick One	:	
c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
3.3.3B	How many times does your waste get collected in residential area?		:	
a)	unknown	Tick One	:	
b)	once a week	Tick One	:	
c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
<b>4.2</b>	<b>Fees of waste services</b>		:	
4.2.1A	Do you charge for waste collection service?		:	
a)	No	Tick One	:	
b)	If "Yes", how do you charge?	Tick One	:	
a)	Independently charge waste collection service fee	Tick One	:	
b)	With water supply bill	Tick One	:	
c)	With electricity bill	Tick One	:	
d)	Any other mode (please provide details	Text	:	

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Local Authorities Questionnaire – PILOT TEST

4.2.1B	How much do you collect for household waste? : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
4.2.1C	How much do you charge for commercial waste? : ( Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
4.2.1D	How much do you charge for institutional waste? : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
4.2.1E	How much do you charge for other waste? ( Please specify : Please indicate the unit; i.e. XX,XXX KHR/year	Text	:	
4.2.2	Do you charge at disposal site / tipping fee?		:	
a)	No	Tick One	:	
b)	Yes ( How much per ton? : (Please indicate currency: i.e.XX,XXX KHR/ton )	Text	:	
4.2.3	Do you charge for other waste service?		:	
a)	No	Tick One	:	

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Local Authorities Questionnaire – PILOT TEST

b)	Yes ( Please specify : )	Text	:	
<b>5</b>	<b>Needs for Improvement</b>		:	
5.1	Do you need to improve the SWM system?		:	
a)	No	Tick One	:	
b)	If "Yes"	Text	:	
<b>6</b>	<b>Any Other Comments</b>		:	
	Please give us any other comments you may have	Text	:	

**Official Questionnaire – PILOT TEST**

Questionnaire on personnel in charge of municipal solid waste management in the municipality

S.No	Question	Response Type	:	Responses
<b>1</b>	<b>About You and Your Institution</b>			
<b>1.1</b>	<b>About Yourself</b>			
	<b>What is your name?</b>	Text	:	
	Mr.	Tick One	:	
	Ms.	Tick One	:	
	First Name	Text	:	
	Middle Name	Text	:	
	Last name	Text	:	
	House no	Text	:	
	Commune	Text	:	
	Village	Text	:	
	Province	Text	:	
	Mobile Number	Number	:	
1.1.2	<b>Which Department / Organization do you belong to?</b>	Text	:	
	Name of the Department/ Organization	Text	:	
	Which Section (if any)	Text	:	
1.1.3	<b>What is your position in the above department?</b>	Text	:	
<b>1.2</b>	<b>About your Institution responsibilities / duties</b>		:	
1.2.1A	<b>Does your department/section have responsibility/duty to prepare legislative bills?</b>		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
1.2.1B	If "Yes", please list legislative bills your department/section have prepared. e.g.: Waste management bill, noise pollution control ordinance, etc.	Text	:	
1.2.1C	<b>Does your department/section have responsibility/duty to prepare Plans?</b>		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	

**Official Questionnaire – PILOT TEST**

1.2.1D	If "Yes", please list plan(s) your department/section have prepared (e.g.: Municipal waste management plan)	Text	:	
1.2.1E	Does your department / section provide SWM service(s) directly?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
1.2.1F	If "Yes", please select the types of service(s) your department/section provide directly		:	
a)	Sweeping	Tick One	:	
b)	Collection service	Tick One	:	
c)	Transfer station		:	
d)	Transport of waste from the transfer station to a disposal site	Tick One	:	
e)	Final disposal		:	
f)	Recycling facility(ies)	Tick One	:	
g)	Others ( Please specify : )	Text	:	
1.2.2	What is the number of staffs in your department?	Text	:	
a)	In administration	Text	:	
b)	In Operation	Text	:	
c)	Others (Please specify)	Text	:	
1.2.3	What is the number of skilled staffs in your department?		:	
a)	Staffs who took SWM and/or related course in university/graduate school	Text	:	
b)	Staffs Participated in SWM and/or related training course	Text	:	
c)	staffs worked in the SWM sector for 5 years and more	Text	:	
1.2.4	Does your organization/ department provide opportunities to increase your knowledge on SWM?		:	
a)	No opportunities	Tick One	:	
b)	Yes, but there are no Programs	Tick One	:	
c)	Yes, there are programs	Tick One	:	
<b>1.3</b>	<b>Other Institutions related to SWM - Please name the other related institution(s)</b>		:	

**Official Questionnaire – PILOT TEST**

a)	Name of the Institution- 1 ( e.g.: Ministry of Health, Department of ABC)	Text	:	
b)	Please list their responsibilities ( e.g.: In charge of medical waste)	Text	:	
<b>2</b>	<b>Legal System</b>		:	
<b>2.1</b>	<b>Regulation / ordinance related to SWM</b>		:	
2.1.1A	Does the municipality have a code/regulation on municipal solid waste management? It may be a part of broader regulation, such as regulation on environmental protection in general.		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
2.1.1B	If "Yes", please give us the (1) title (2) year enacted, and (3) summary of the code/regulation (e.g.: 1) Code of municipal solid waste management, 2) 2005, 3) define what is municipal waste.)	Text	:	
a)	If there are more than one, please use this area ( e.g.: 1) Regulation on private waste collectors, 2) 2000, 3) defines responsibilities of private waste collectors)	Text	:	
b)	If there are more than two, please use this (e.g.: 1) Regulation on industrial waste, 2) 1999, 3) establishes guidelines for how to deal with industrial waste.)	Text	:	
c)	If there are more than three, please use this area	Text	:	
d)	If there are more than four, please use this area	Text	:	
e)	If there are more than five, please use this area to list all	Text	:	
<b>3</b>	<b>Involvement of Private Sector Informal Sector and Community</b>		:	
<b>3.1</b>	<b>Private sector involvement</b>		:	
3.1.1	Does the private sector participate in provision of SWM related services in your municipality?		:	
a)	No	Tick One	:	

**Official Questionnaire – PILOT TEST**

b)	Yes	Tick One	:	
3.1.2	If Yes, Which type of services do they participate in?(Please select all that apply)		:	
a)	Sweeping	Tick One	:	
b)	Collection service	Tick One	:	
c)	Transfer station	Tick One	:	
d)	Transport of waste from the transfer station to a disposal site	Tick One	:	
e)	Final disposal	Tick One	:	
f)	Recycling facility(ies)	Tick One	:	
g)	Others ( Please specify : )	Text	:	
3.1.3	Do you have a written contract with the private sector?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1.4A	Do you think that the private sector works well?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.1.4B	If "No", why does NOT the private sector work well?(Please select all that apply)		:	
a)	without contract, we cannot control the private sector	Tick One	:	
b)	the contract is not clear	Tick One	:	
c)	not monitored stringently by the authority	Tick One	:	
d)	the private sector is not paid according to the contract	Tick One	:	
e)	the rates of collection are high	Text	:	
f)	others ( Please specify : )		:	
3.1.4B	If "Yes", why does the private sector work well?(Please list the reasons)		:	
a)		Text	:	
b)		Text	:	
c)		Text	:	
d)		Text	:	
e)		Text	:	
<b>3.2</b>	<b>Informal sector involvement</b>		:	
3.2.1	Is(are) there activity(es) of the informal sector?		:	

**Official Questionnaire – PILOT TEST**

a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.2.2A	If "Yes", please specify activity (ies) and approximate number of persons involved in those activities. ( e.g.: 300 people in collection of recyclable materials on the street)	Text	:	
3.2.2B	Please specify activity(ies) and approximate number of persons involved in those activities.(e.g.: 150 people in collection of recyclable materials on the street)	Text	:	
3.2.2C	please specify activity(ies) please list all here	Text	:	
	Activity 01		:	
	Activity 02		:	
	Activity 03		:	
3.2.3	Is there any policy for supporting the informal sector?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.2.4	If "Yes", What kind of policy do you have for supporting informal sector?		:	
a)	provision of job opportunities	Tick One	:	
b)	provision of job training	Tick One	:	
c)	provision of subsidiary	Tick One	:	
d)	others ( Please specify :	Text	:	
<b>3.3</b>	<b>Community involvement</b>		:	
3.3.1	Is community informed of how to discharge waste?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
3.3.2	If "Yes", What are they informed about?		:	
a)	collection day and time	Tick One	:	
b)	separation of waste	Tick One	:	
c)	others ( Please specify : )	Text	:	
3.3.3	How are they informed the above information?		:	
a)	public bulletin	Tick One	:	
b)	public consultation meeting	Tick One	:	

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c)	flyers and/or brochures	Tick One	:	
d)	school (in curriculum)	Tick One	:	
e)	municipality's web page	Tick One	:	
f)	official SMSs	Tick One	:	
g)	others ( Please specify : )	Text	:	
<b>4</b>	<b>Household Solid Waste Management</b>		:	
<b>4.1</b>	<b>Generation and Characteristics</b>		:	
4.1.1A	Do you know how much of waste your household generates?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.1.1B	If "Yes", please give us the approximate weight (kgs) details and also mention how did you get the data (Please do not forget to indicate the unit, such as ton/day or ton/year)	text	:	
4.1.3A	Do you know composition of the solid waste in your household?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.1.3B	If "Yes", please fill in the followings in percentage(%)		:	
a)	food waste	Text	:	
b)	plastics	Text	:	
c)	papers	Text	:	
d)	textile	Text	:	
e)	wood	Text	:	
f)	rubber, leather	Text	:	
g)	metals	Text	:	
h)	glass	Text	:	
i)	ceramics	Text	:	
j)	others : ( Please specify : )	Text	:	
K)	If only mixed figure is known, specify in the following box	Text	:	
<b>5</b>	<b>Municipal Solid Waste Management</b>		:	
<b>5.1</b>	<b>Generation and Characteristics</b>		:	
5.1.1A	Do you know how much of waste your municipality generates?		:	
a)	No	Tick One	:	

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b)	Yes	Tick One	:	
5.1.1B	If "Yes", please give us either a) volume (m3) or b) weight (ton) and also mention how did you get the data	text	:	
a)	Volume (m3) (Please do not forget to indicate unit, such as m3/day or m3/year) :	Text	:	
b)	Weight (ton)(Please do not forget to indicate the unit, such as ton/day or ton/year) :	Text	:	
5.1.1C	If "Yes", how do you get the data?		:	
a)	weighbridge at disposal site and/or transfer station	Tick One	:	
b)	estimated by multiplying population and waste generation rate	Tick One	:	
c)	others ( Please specify : )	Text	:	
5.1.2A	Do you know the waste generation rate in your municipality?		:	
a)	No	Tick One	:	
b)	Yes ( Please give us the waste generation rate :	Text	:	
4.1.2 B	If "Yes", how do you get the waste generation rate?		:	
a)	from a detailed waste amount survey conducted by professionals such as donor agencies, universities, and consultants - When? ( e.g.: year 2017/18 )	Tick One	:	
b)	refer to data in other city in the country	Tick One	:	
d)	others ( Please specify : )	Text	:	
4.1.2 C	If "Yes", when was the waste generation rate data gathered? please specify ( e.g.: 2017/18)	Text	:	
4.1.3A	Do you know composition of the municipal solid waste in your municipality?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.1.3B	If "Yes", please fill in the followings in percentage(%)		:	
a)	food waste	Text	:	
b)	plastics	Text	:	
c)	papers	Text	:	

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d)	textile	Text	:	
e)	wood	Text	:	
f)	rubber, leather	Text	:	
g)	metals	Text	:	
h)	glass	Text	:	
i)	ceramics	Text	:	
j)	others : ( Please specify : )	Text	:	
K)	If only mixed figure is known, specify in the following box	Text	:	
4.1.3C	If "Yes", how do you get the waste composition data?		:	
a)	from a detailed waste composition survey conducted by professionals such as donor agencies, universities and consultants - When?(e.g.: year 2010 ) :	Tick One	:	
b)	refer to data in other city in the country	Tick One	:	
d)	others ( Please specify : )	Tick One	:	
<b>4.2</b>	<b>Sweeping</b>		:	
4.2.1	Is there sweeping service in your municipality?		:	
a)	No sweeping service provided	Tick One	:	
b)	Yes, sweeping service in the following area	Tick One	:	
a)	city centre	Tick One	:	
b)	public areas such as parks and plazas	Tick One	:	
c)	residential area	Tick One	:	
d)	other areas ( Please specify : )	Text	:	
<b>4.3</b>	<b>Collection</b>		:	
4.3.1A	Collection amount -Do you know how much of waste collected?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.3.1B	If "Yes", please give us either volume (m3/day or m3/year) or weight (kg/ton/day or ton/year)(Please do not forget to include the unit. e.g.: m3 / day or ton/year)	Text	:	
4.3.1C	How do you get the data?		:	
a)	weighbridge at disposal site and/or transfer station	Tick One	:	

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b)	estimated by multiplying collection truck's capacity and number of trips	Tick One	:	
c)	others ( Please specify : )	Text	:	
4.3.2A	Collection coverage - Can you identify number of residents who have collection service?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.3.2B	If "Yes", how many are they?		:	
a)	People	Text	:	
b)	Alternatively, you can give us in percentage of coverage in %(e.g.: 50% of municipal population )	Text	:	
4.3.2C	How do you get the data?		:	
a)	collection area map with population data	Tick One	:	
b)	other way ( Please specify :	Tick One	:	
4.3.3A	Collection frequency - How many times do you collect waste in the city centre?		:	
a)	unknown	Tick One	:	
b)	once a week	Tick One	:	
c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
4.3.3B	How many times does your waste get collected in residential area?		:	
a)	unknown	Tick One	:	
b)	once a week	Tick One	:	
c)	twice a week	Tick One	:	
d)	three times a week and more	Tick One	:	
4.3.4	Hauling distance		:	
a)	From city centre to a transfer station : km (If you have multiple disposal sites, assume the furthest disposal site)	Text	:	
	Please give us coordinate of the said transfer Station	Text	:	
	Alternatively, you can paste the web address (url) of google map here ( e.g.: lat/long)	Text	:	

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b)	From city centre to a disposal site : km( If you have multiple disposal sites, assume the furthest disposal site)	Text	:	
	Please give us coordinate of the said disposal site	Text	:	
	Alternatively, you can paste the web address (url) of googlemap here ( e.g.: Lat/long)	Text	:	
4.3.5	Collection vehicles		:	
a)	Please give us the number of "Compactor trucks" you have, according to their capacity (e.g.: 3 compactor trucks of 5m3 capacity and 2 compactor trucks of 10m3.) (Please be careful about the unit difference; i.e. ton and m3)	Text	:	
b)	Please give us the number of "other waste collection trucks" (other than compactor trucks), according to their capacity. (e.g.: 3 trailer of 5m3 capacity and 2 flatbed trucks of 10m3. (Please be careful about the unit difference; i.e. ton and m3)	Text	:	
4.3.6	Functionality of the collection vehicle		:	
a)	What is the percentage of functional compactor trucks? in %	Text	:	
	What might be the main cause(s) of the non-functional compactor truck(s)? Please list : (e.g.: lack of maintenance and spare parts, accidents, etc. )	Text	:	
b)	What is the percentage of functional other waste collection trucks (other than compactor trucks)? in %	Text	:	
	What might be the main cause(s) of the non-functional truck(s)? Please list : ( e.g.: lack of maintenance and spare parts, accidents, etc. )	Text	:	
<b>4.4</b>	<b>4.4 Transport</b>		:	
4.4.1A	Transfer station - Do you have transfer station(s) in your city?		:	
a)	No	Tick One	:	

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b)	Yes ( If "Yes", how many? : stations )	Tick One	:	
4.4.1B(a)	Please give us the location and operating hours (e.g.: location: Lat/long (alternatively you can paste googlemap address), operating hours 8:00-17:00)	Text	:	
b)	Please use this area for 2nd transfer station	Text	:	
c)	Please use this area for 3rd transfer station	Text	:	
d)	Please use this area for 4th and more transfer station	Text	:	
4.4.2	4.4.2 Transported waste amount		:	
4.4.2A	Do you know how much of waste is transported from the transfer station to a dumpsite?		:	
a)	No	Tick One	:	
b)	Yes ( If "Yes", please give us the figure: (e.g.: 2,000 ton/day or 3,000 m3/day )	Tick One	:	
4.4.2B	How do you know the amount?		:	
a)	weighbridge at the transfer station	Tick One	:	
b)	weighbridge at the disposal site	Tick One	:	
c)	estimated by multiplying vehicle's capacity and number of trips	Tick One	:	
d)	other way ( Please specify : )	Text	:	
4.4.3	Transport vehicle		:	
a)	What is the number of trailers?( e.g.: 2 3m3 trailers and 5 10m3 trailers)	Text	:	
	What is the percentage of functional trailers? in %	Text	:	
	What might be the main cause(s) of the "non-functional" trailers? Please list : (e.g.: lack of maintenance and spare parts )	Text	:	
	What is the number of dump trucks (2 10ton dump trucks & 3 4ton dump trucks)	Text	:	
b)	What is the percentage of functional dump trucks? in %	Text	:	
	What might be the main cause(s) of the "non-functional" dump truck(s)? Please list : (e.g.: lack of maintenance and spare parts, accidents, etc. )	Text	:	
c)	What is the number of container trucks?	Text	:	

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	What is the percentage of functional container truck? in %	Text	:	
	What might be the main cause(s) of the "non-functional "container trucks? Please list : (e.g.: lack of maintenance and spare parts, accidents, etc. )	Text	:	
d)	What is the number of other trucks	Text	:	
e)	Please specify	Text	:	
	What is the percentage of functional other truck? in %	Text	:	
	What might be the main cause(s) of the "non-functional" other truck(s)? Please list : (e.g.: lack of maintenance and spare parts, accidents, etc. )	Text	:	
<b>4.5</b>	<b>Disposal</b>		:	
4.5.1	Number of disposal site(s)		:	
a)	How many disposal site are operated for receiving waste generated in your municipality? (disposal Site(s))	Text	:	
b)	If you have only 1 disposal site, please answer one-set of question below. If you have more than one, please use the next sections as well.	Text	:	
4.5.2	Profile of the disposal site (1)		:	
4.5.2(1)	For disposal site 1, please give us the location.( e.g.: location: Lat/Long (alternatively you can paste googlemap address)	Text	:	
4.5.2(2)	For disposal site 1, please give us the capacity(e.g.: 300,000 tons)	Text	:	
4.5.2(3)	For disposal site 1, please give us the operating hours( e.g.: 24 hours)	Text	:	
4.5.2(4)	For disposal site 1, do you how much of waste is disposed of?		:	
a)	a) No	Tick One	:	
b)	b) Yes ( If "Yes", please specify : (Please do not forget the unit; i.e. 1,500 ton/day )	Text	:	
4.5.2(5)	For disposal site 1, how do you know the amount?		:	

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a)	Weighbridge data at the transfer station	Tick One	:	
b)	weighbridge data at the disposal site	Tick One	:	
c)	Estimated by multiplying vehicle's capacity and number of trips	Tick One	:	
d)	Other way ( Please specify : )	Text	:	
4.5.2(6)	For disposal site 1, what facility the disposal site have?		:	
a)	Bottom liner	Tick One	:	
b)	Leachate collection pipe	Tick One	:	
c)	Gas removal pipe	Tick One	:	
d)	Enclosed bund / embankment	Tick One	:	
e)	Leachate treatment facility	Tick One	:	
f)	Landfill gas capture facility	Tick One	:	
g)	Weighbridge	Tick One	:	
h)	Tire washer	Tick One	:	
i)	Gate	Tick One	:	
j)	Fence	Tick One	:	
k)	Drainage to prevent rainwater from incoming to the waste disposal area	Tick One	:	
4.5.2(7)	For disposal site 1, do you have operation plans?		:	
a)	No	Tick One	:	
b)	Yes ( Please specify : ( e.g.: a) Long-term operation plan, and b) daily operation plan )	Text	:	
4.5.2(8)	For disposal site 1, what is your operation?		:	
a)	Compaction of waste	Tick One	:	
b)	Covering waste with soil or other material immediately / or within a week	Tick One	:	
c)	Intermediate soil cover for area which is not used for several months.	Tick One	:	
4.5.3	Profile of the disposal site (2)		:	
4.5.3(1)	For disposal site 2, please give us the location.(e.g.: location: Lat/Long (alternatively you can paste googlemap address))	Text	:	
4.5.3(2)	For disposal site 2, please give us the capacity ( e.g.: 300,000 tons)	Text	:	
4.5.3(3)	For disposal site 2, please give us the operating hours (e.g. 24 hours)	Text	:	

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4.5.3(4)	For disposal site 2, do you how much of waste is disposed of?		:	
a)	No	Tick One	:	
b)	Yes ( If "Yes", please specify : ( Please do not forget the unit; i.e. 1,500 ton/day )	Text	:	
4.5.3(5)	For disposal site 2, how do you know the amount?		:	
a)	Weighbridge data at the transfer station	Tick One	:	
b)	Weighbridge data at the disposal site	Tick One	:	
c)	Estimated by multiplying vehicle's capacity and number of trips	Tick One	:	
d)	Other way ( Please specify : )	Text	:	
4.5.3(6)	For disposal site 2, what facility the disposal site have?		:	
a)	Bottom liner	Tick One	:	
b)	Leachate collection pipe	Tick One	:	
c)	Gas removal pipe	Tick One	:	
d)	Enclosed bund	Tick One	:	
e)	Leachate treatment facility	Tick One	:	
f)	Landfill gas capture facility	Tick One	:	
g)	Weighbridge	Tick One	:	
h)	Tire washer	Tick One	:	
i)	Gate	Tick One	:	
j)	Fence	Tick One	:	
k)	Drainage to prevent rainwater from incoming to the waste disposal area	Tick One	:	
4.5.3(7)	For disposal site 2, do you have operation plans?		:	
a)	No	Tick One	:	
b)	Yes ( Please specify : (e.g.: a) Long-term operation plan, and b) daily operation plan )	Text	:	
4.5.3(8)	For disposal site 2, what is your operation?		:	
a)	Compaction of waste	Tick One	:	
b)	Covering waste with soil or other material	Tick One	:	
c)	Intermediate soil cover	Tick One	:	
4.5.4	Profile of the disposal site (3)		:	
4.5.4(1)	For disposal site 3, please give us the location.(e.g.: location: Lat/Long	Text	:	

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	(alternatively you can paste googlemap address)			
4.5.4(2)	For disposal site 3, please give us the capacity ( e.g.: 300,000 tons)	Text	:	
4.5.4(3)	For disposal site 3, please give us the operating hours (e.g. 24 hours)	Text	:	
4.5.4(4)	For disposal site 3, do you how much of waste is disposed of?		:	
a)	No	Tick One	:	
b)	Yes ( If "Yes", please specify : ( Please do not forget the unit; i.e. 1,500 ton/day )	Text	:	
4.5.4(5)	For disposal site 3, how do you know the amount?		:	
a)	Weighbridge data at the transfer station	Tick One	:	
b)	Weighbridge data at the disposal site	Tick One	:	
c)	Estimated by multiplying vehicle's capacity and number of trips	Tick One	:	
d)	Other way ( Please specify : )	Text	:	
4.5.4(6)	For disposal site 3, what facility the disposal site have?		:	
a)	Bottom liner	Tick One	:	
b)	Leachate collection pipe	Tick One	:	
c)	Gas removal pipe	Tick One	:	
d)	Enclosed bund	Tick One	:	
e)	Leachate treatment facility	Tick One	:	
f)	Landfill gas capture facility	Tick One	:	
g)	Weighbridge	Tick One	:	
h)	Tire washer	Tick One	:	
i)	Gate	Tick One	:	
j)	Fence	Tick One	:	
k)	Drainage to prevent rainwater from incoming to the waste disposal area	Tick One	:	
4.5.4(7)	For disposal site 3, do you have operation plans?		:	
a)	No	Tick One	:	
b)	Yes ( Please specify : (e.g.: a) Long-term operation plan, and b) daily operation plan )	Text	:	
4.5.4(8)	For disposal site 3, what is your operation?		:	
a)	Compaction of waste	Tick One	:	

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b)	Covering waste with soil or other material	Tick One	:	
c)	Intermediate soil cover	Tick One	:	
<b>4.6</b>	<b>Recycling / Treatment Facility</b>		:	
4.6.1	Is(are) there recycling/treatment facility(es) in your municipality?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.6.2A	If "Yes", What type of recycling facility(es) are present in your municipality?		:	
a)	Material Recycling Facility (MRF)	Tick One	:	
b)	Composting facility	Tick One	:	
c)	Incineration facility	Tick One	:	
d)	Bio-gas plant (anaerobic digester)	Tick One	:	
e)	Others ( Please specify : )	Tick One	:	
4.6.2 B	For each facility you checked above, please give details in the spaces provided below:		:	
a)	For "MRF", please 1) location (or googlemap address), 2) capacity (10 ton/day), 3) operating hours (24Hrs), 4) how much waste is put into facility (10 ton/day) and 5) how do you know the amount (estimated from truck capacity?).	Text	:	
b)	For "Composting facility", please 1) location (or googlemap address), 2)capacity, 3) operating hours, 4) how much waste is put into facility, and 5) how do you know the amount. operation hours: 24hrs, 4) waste amount: 5ton/day, 5) estimated from truck capacity.	Text	:	
c)	For "Incineration plant", please 1) location (or googlemap address), 2)capacity, 3) operating hours, 4) how much waste is put into facility, and 5) how do you know the amount.	Text	:	

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	(e.g.. 1) location: Lat/Long, 2) Capacity: 10 ton/day, 3)operation hours: 24hrs, 4) waste amount: 5ton/day, 5) estimated from truck capacity			
	For "Bio-gas plant (anaerobic digester)", please 1) location (or googlemap address), 2)capacity, 3) operating hours, 4) how much waste is put into facility, and 5) how do you know the amount. (e.g.. 1) location: Lat/Long, 2) Capacity: 10 ton/day, 3)operation hours: 24hrs, 4) waste amount: 5ton/day, 5) estimated from truck capacity	Text	:	
d)	For "Other", please 1) location (or googlemap address), 2) capacity, 3)operating hours, 4) how much waste is put into facility, and 5) how do you know the amount. (e.g.. 1) location: Lat/Long, 2) Capacity: 10 ton/day, 3)operation hours: 24hrs, 4) waste amount: 5ton/day, 5) estimated from truck capacity	Text	:	
e)	Please specify if any other :	Text	:	
4.6.3A	<b>Separate collection-</b> Is separate collection practiced?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	
4.6.3B	If "Yes", what is practiced?		:	
a)	municipal market waste	Tick One	:	
b)	commercial and institutional waste	Tick One	:	
c)	household waste	Tick One	:	
d)	pruned trees and grass	Tick One	:	
e)	others ( Please specify : )	Text	:	
4.6.4A	<b>Self-disposal at waste generation source</b> - Is/ are self-disposal activity(es) is(are) found at houses and others?		:	
a)	No	Tick One	:	
b)	Yes	Tick One	:	

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4.6.4B	If "Yes", what are they?		:	
a)	open burning	Tick One	:	
b)	animal feeding	Tick One	:	
c)	composting	Tick One	:	
d)	recyclable materials to recyclers	Tick One	:	
e)	others ( Please specify : )	Tick One	:	
<b>5</b>	<b>Financial sustainability</b>		:	
<b>5.1</b>	<b>Revenue and expenditure</b>		:	
5.1.1	Do you know the total revenue and expenditure for the waste services?		:	
<b>A</b>	<b>Revenue</b>		:	
a)	No	Tick One	:	
b)	Yes ( How much in local currency: (Please do not forget to include the currency; i.e. 1,000,000 KHR/year )	Text	:	
<b>B</b>	<b>Expenditure</b>		:	
a)	No	Tick One	:	
b)	Yes ( How much in local currency? ( Please do not forget to indicate the currency; i.e. 1,000,000 KHR/year )	Text	:	
5.1.2	Do you know how much is spent for the waste services?		:	
a)	Collection and transportation: ( Please do not forget to indicate the local currency; i.e.: 1,000,000 KHR )	Text	:	
b)	Sweeping : ( Please do not forget to indicate the local currency; i.e.: 1,000,000 KHR )	Text	:	
c)	Treatment / Recycling : ( Please do not forget to indicate the local currency; i.e.: 1,000,000 KHR )	Text	:	
d)	Final disposal : ( Please do not forget to indicate the local currency; i.e.: 1,000,000 KHR )	Text	:	
e)	others : ( Please specify and indicate local currency)	Text	:	
5.1.3	Do you know how much is spent per ton of waste?		:	
a)	No	Tick One	:	

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b)	Yes ( Please give us how much : )	Text	:	
<b>5.2</b>	<b>Fees of waste services</b>		:	
5.2.1A	Do you charge for waste collection service?		:	
a)	No	Tick One	:	
b)	If "Yes", how do you charge?	Tick One	:	
a)	Independently charge waste collection service fee	Tick One	:	
b)	With water supply bill	Tick One	:	
c)	With electricity bill	Tick One	:	
5.2.1B	How much do you collect for household waste? : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1C	How much do you charge for commercial waste? : ( Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1D	How much do you charge for institutional waste? : (Please indicate the unit; i.e. XX,XXX KHR/year)	Text	:	
5.2.1E	How much do you charge for other waste? ( Please specify : Please indicate the unit; i.e. XX,XXX KHR/year	Text	:	
5.2.2	Do you charge at disposal site / tipping fee?		:	
a)	No	Tick One	:	
b)	Yes ( How much per ton? : (Please indicate currency: i.e.XX,XXX KHR/ton )	Text	:	
5.2.3	Do you charge for other waste service?		:	
a)	No	Tick One	:	
b)	Yes ( Please specify : )	Text	:	
<b>6</b>	<b>Donor Assistance</b>		:	
6.1.1	Do you have assistance from donor(s)?		:	
a)	No	Tick One	:	
b)	If "Yes", please give us 1) name of donor agency, 2) type of assistance, and 3) content of the assistance ( e.g.: 1) JICA, 2) capacity development, 3) integrated solid waste management)	Text	:	

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c)	Please use this area to indicate additional assistance( e.g.; 1) JICA, 2) technical cooperation, 3) development of fee collection system, application of waste tax, etc.)	Text	:	
d)	Please use this area to indicate additional assistance	Text	:	
e)	Please use this area to indicate additional assistance	Text	:	
<b>7</b>	<b>Needs for Improvement</b>		:	
7.1	Do you need to improve the SWM system?		:	
a)	No	Tick One	:	
b)	If "Yes", please go to 7.2	Tick One	:	
7.2	There may be group of issues in your municipality surrounding SWM, such as A) legal issues, B) Institutional issues, C) Technical issues, D) Financial issues, etc. that need to be addressed.  Please list the top 3 priority issues and their consent in the order of priority (e.g.; 1) Legal issues for preparation of SWM basic law, 2) Technical issues for final disposal site, 3) Institutional issues, etc.	Text	:	
<b>8</b>	<b>Any Comments</b>		:	
	Please give us any comment you may have	Text	:	

**TOR for Public Health Awareness Raising on COVID-19  
Project: Community Mobilization and Environmental improvements (CMEI)  
Implemented by PADEK in association with West East Development in Cambodia  
(WEDC)**

**Funded by ADB**

**Venue: Six target villages in Pursat and Kampong Chhnang Provinces**

<b>1. Background</b>
The agencies Partnership for Development in Kampuchea (PADEK) in association with West East Development in Cambodia (WEDC) have been awarded the project output: Community Mobilization and Environmental improvements (CMEI) under the project titled “Integrated Urban Environmental Management in Tonle Sap Basin” This is part of a larger mandate to help develop the Tonle Sap basin.
<b>2. Project brief</b>
The Community Mobilization and Environmental Improvements (CMEI) output will translate Project principles into community action. This includes support for community planning and prioritization, and provision of community-driven climate-resilient urban environmental infrastructure. The involvement of local communities, including poor, vulnerable and ethnic Cham and Vietnamese, in planning, decision-making and supervision of the works will encourage local solutions and greater accountability of the services delivered. It will help to create ownership and provide benefits to those often marginalized and vulnerable.
<b>3. Project Outputs and Outcomes</b>
The project aims to address the climate change and environmental needs of the urban poor and vulnerable, including ethnic Cham and Vietnamese in Kampong Chhnang and Pursat, making the project more inclusive by extending benefits from large infrastructure investments. It includes improved Sanitation/hygiene awareness and action, household sanitation for ID Poor 1 and 2 in the current municipality areas; climate change; and community small-scale infrastructure improvements in pre-identified poor and vulnerable areas in each municipality. Small-scale infrastructure improvements will be prioritized by the communities and will be financed by the project, national government, and community. The output will help extend project benefits to the poor and vulnerable groups.
<b>4. COVID-19- Need and Rationale</b>
The COVID-19 is an infectious disease caused by a coronavirus, that usually causes fever, tiredness, and a cough, and can also cause breathing problems. Most often the disease is not serious but it can lead to severe illness in some people. The CMEI team has worked with the poor and marginalised communities for a long time on Public Health awareness raising and small-scale infrastructure need. With the advent of the Covid19, the Project CMEI field team is faced with requests from the community to raise awareness on Covid 19. In response to the ongoing spread of COVID-19 (Coronavirus) and the request from the community, the project CMEI will provide a short awareness raising action in the field. The delivery of the training and awareness raising action will be carried out in a socially responsible way following the government prescribed physical distancing norms. The thematic focus of this training will be on “Positive parenting”, the leaflets are attained from a globally recognised international NGO in Cambodia in a mutually agreed ‘pro bono’

basis. These leaflets are agreed by the WHO, Unicef, Ministry of Health, and CDC for wider circulation.

### 5. Public Health Training Objectives:

The core objectives of the actions of CMEI addressed are to have greater understanding and preventive practice of COVID-19 around vulnerability, risk and hazards to provide direction of working in the target villages. After completing of the COVID-19 Training, the participants are able to;

1. Providing participants with a COVID-19 experience;
2. Learning on how to educate the children during the COVID-19 is a time for an individual by individual;
3. Educate the children during the COVID-19 for keeping positivity;
4. Educate the children during the COVID-19 by providing the counselling;
5. Educate the children during the COVID-19 for improving their behaviours;
6. Educate the children during the COVID-19 for keeping silence and control their tension;
7. Educate the children during the COVID-19 for taking about COVID-19.

### 6. Expected Outputs from Participants

- Target villagers and local authorities as well as government focal person staff well understand of COVID-19 experience and apply;
- Target villagers and local authorities as well as government focal person staff clear understand on how to be with children is a time for an individual by individual;
- Target villagers and local authorities as well as government focal person staff clear understand on how to keep the positive activities with their children;
- Target villagers and local authorities as well as government focal person staff know very well on how to provide the counselling to their children during the COVID-19;
- Target villagers and local authorities as well as government focal person staff know clearly on how to improve the behaviours of their children;
- Target villagers and local authorities as well as government focal person staff know very clearly on how to keep their children in silent manner and control the tension of their children;
- Target villagers and local authorities as well as government focal person staff know on how to talk about the COVID-19 to their children.

### 7. Methodology

Participatory training methodologies will be used to facilitate the training to encourage participants to participate actively in the training course both theories and practice. These methods include;

- |                                                                                                                                                      |                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• Ask questions;</li> <li>• Brief presentation;</li> <li>• Tell stories;</li> <li>• Brainstorming;</li> </ul> | <ul style="list-style-type: none"> <li>• Explanation;</li> <li>• Translation;</li> <li>• Feed-backs and</li> <li>• Show COVID-19 leaflets.</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

### 8. Participants

The following are 60 expected participants from the six target villages (10 expected participant per a village) including the relevant key stakeholders will be invited to participate in the training per village in Pursat and Kampong Chhnang as the follow table:

**1-Table A: Number of participants in one village.**

No	Description	# of participant	# of women	Others
----	-------------	------------------	------------	--------

1	Women Affaire members	1	1	
2	Health Volunteers	2	1	
3	Communities villager and member	2	1	
4	Local authorities	2	1	
5	School child, teacher and director	3	1	
	<b>Total one village</b>	<b>10</b>	<b>5 = 50%</b>	

**Table B: Total number of participant in six villages**

No	Description	# of participant	# of women	Others
1	Women Affaire members	6	6	
2	Health Volunteers	12	6	
3	Communities villager and member	12	6	
4	Local authorities	12	6	
5	School child, teacher and director	18	6	
	<b>Total six villages</b>	<b>60</b>	<b>30 = 50%</b>	

### 9. Expectations for nominated trainees

- Should possess a general knowhow about the Covid19 pandemic
- Should support project CMEI on a volunteer basis and
- Should be a minimum of 50% women representation.

### 10. Facilitator and Resource Persons

- 3 facilitators from CMEI staff (2 in Pursat and 1 in Kampong Chhnang)
- One resource person from CMEI staff, the WASH Specialist/PO.

#### Responsibility of the Resource Person in brief

- Develop curriculum and schedule for COVID-19 training in CMEI's target villages
- Deliver direct and indirect training on COVID-19 to 144 participants in cooperation with PCs and CMs
- Monitor the training process to ensure the capacity of participants improved.
- Undertakes the generation of knowledge and learning on COVID-19, environment and development issues.

### 11. Date and Venue

The COVID-19 Trainings will be held on 09 June in KPCH and 12 June 2020 in Pursat including travel time and prepared venues in the six target villages of Pursat and Kampong Chhnang Provinces.

### 12. Tentative Training Schedule

The tentative training schedule for COVID-19 will be one hour sessions per village, so a total of 2 days in six target villages for local authorities, communities villagers/members and government focal persons.

### 13-BUDGET PLAN (MAXIMUM 500\$/1TRAINING)

Budget planned for training on COVID-19 in the target villages for local authority and community members as below table:

#### 1-Total Budget for one village per a time

No	Activity description	# of unit	Unit cost \$	Total
1	Participant food: 10ps x 1 time x \$4/time	10	4	40
2	Transportation :10ps x 2times x \$5/time	20	5	100
	<b>Total</b>			<b>140\$</b>

#### 2-Total Budget for six villages per six times

No	Activity description	# of unit	Unit cost	Total
1	Participant food: 10ps x 6 time x \$4/time	60	4	240
2	Transportation :10ps x 12times x \$5/time	120	5	600
	<b>Total</b>			<b>840\$</b>

### 14-CONTACT PERSON

**Mr. MEAS Phally, WASH Specialist/PO**

**Mail: measphally@ymail.com**

**Phone: 092 633375**

## **The Report for Public Health Awareness Raising TOT Trainings on COVID-19**

**1. Date:** 09, 10, 11 and 12 June, 2020

**2. Training Venue:**

The Public Health educational awareness raising trainings sessions had been conducted in the CMEI's sub-Office in Kampong Chhnang town and in Sangkat Lolok Sar local authorities Office in Pursat town as well as in PADEK's target outreach fields activities intervention in Siem Reap town.

**3. Total Trainees:**

Total of 60 participants (30 females) and 9 students (6 girls) in both provinces of Kampong Chhnang and Pursat. There were 30 participants (15 women) from Kampong Chhnang Province and other 30 participants (15 women) from Pursat Province as well as 75 poor and vulnerable population (25 parents and 50 children with 50% of women and girls) from PADEK's outreach educational awareness sessions integrated with foods assistant distributions in four target poor and vulnerable villages in Siem Reap town.

**4. Trainings Facilitators:**

One WASH Specialist/Public Health was facilitator for these trainings sessions with the assistances from the fields teams staff in both provinces of Kampong Chhnang and Pursat that mobilized the participants in these TOT trainings and PADEK's outreach fields teams staff in PADEK's sub-office in Siem Reap town.

**5. Training Process:**

On June 09 and 12, 2020 the Public Health awareness raising TOT trainings on COVID-19 of CMEI Project were conducted in Chong Kash, Samrong and Kandal villages in Kampong Chhnang Province and in Toul Makak, Kosh and Kbal Hong villages in Pursat Province that were participated from 6 women affaire members, 12 health volunteers, 12 poor communities villagers and members, 12 local authorities and 18 schools children, teachers and directors including 30 women and girls. They are the key relevant stakeholders representatives and the poor and vulnerable families from the communities, especially, they became the trainers and they will spread their knowledge, awareness and practices from the trainings conducted to other poor and vulnerable communities villagers, poor women headhouseholds and schools teachers, directors as well as schools girls and boys students.

Moreover, on June 10, 11 and 12, 2020 the PADEK's outreach fields teams staff conducted the foods assistant distributions integrated with the outreach educational awareness sessions on COVID-19 to 25 poor and vulnerable parents and 50 children with 50% of women and girls in Torp Svay, Tatrav, Old Leap and New Leap villages in Siem Reap town.



COVID-19 TOT training session facilitated by WASH Specialist/Public Health in Kampong Chhnang Province

## **6. Training Objective:**

The objectives of the training are as followings below:

- Providing participants with a COVID-19 experience;
- Learning on how to educate the children during the COVID-19 is a time for an individual by individual;
- Educate the children during the COVID-19 for keeping positivity;
- Educate the children during the COVID-19 by providing the counselling;
- Educate the children during the COVID-19 for improving their behaviours;
- Educate the children during the COVID-19 for keeping silence and control their tension;
- Educate the children during the COVID-19 for talking about COVID-19;
- Conduct the COVID-19 outreach educational awareness sessions integrated with food assistant distributions.

## **7. Expected outputs from the participants after trainings conducted:**

- ✚ Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities well understood about COVID-19 experience and applied;

- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities clear understood on how to be with children is a time for an individual by individual;
- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities clear understood on how to keep the positive activities with their children;
- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities known very well on how to provide the counselling to their children during the COVID-19;
- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities known clearly on how to improve the behaviours of their children;
- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities known very clearly on how to keep their children in silent manner and control the tension of their children;
- + Target poor and vulnerable communities villagers/members, women affaire members, health volunteers, school students, teachers, directors and local authorities known on how to talk about the COVID-19 to their children;
- + They continued spreading their knowledge, awareness and practices from the trainings conducted to other poor and vulnerable communities' villagers and schools girls and boys students.

## 8. Training agenda:

Time	Activity/Topic	Methodology/Material
9:00 – 9:15 AM	Introduction to the COVID-19 training, objectives and expectations from the training	Orally talking to all the participants and participants shorted out orally their expectations per each individual
9:15 – 9:30 AM	General crisis situation of COVID-19 in Cambodia/per each province. participants' opinions/feelings and feedbacks	Plenary discussion and brainstorming with all participants and asked a few participants to present about their own opinions/feelings related to current COVID-19 impacts. Also use Q&A.
9:30 – 10:15 AM	How to educate the children during the COVID-19 is a time for an individual by individual;  Educate the children during the COVID-19 for keeping positivity;  Educate the children during the COVID-19 by providing the counselling;  Educate the children during the COVID-19 for improving their behaviours/attitudes;	Divided all participants into 3 groups for discussing and brainstorming about the real situations and practices of COVID-19 in their own families. Asked a few participants to demonstrate their opinions from the groups' discussions. Plenary discussion and brainstorming with all participants and asked a few participants to present about the pictures in the leaflets supported UNICEF, CDC, USAID and other relevant INGO agencies and using copied posters as well as flipcharts stuck into the board. Also use Q&A.

	Educate the children during the COVID-19 for keeping silence and control their tensions;  Educate the children during the COVID-19 for talking about COVID-19.	
10:15– 10:35 AM	Feedbacks from all participants about what they learned from the trainings and their commitments to continue spreading their knowledge and practices from the trainings to other population in their poor and vulnerable communities and schools as well	Invited a few participants to come in front of the board for expressing their opinions and commitments by taking their photos, videos and recording their voices as well
10:35 – 10:40 AM	Closing training	Orally talking

### 9. Main trainings contents provided during the trainings sessions:

The main contents of the trainings were provided, mutually shared, discussed, brainstormed and reflexed together between the facilitator and the participants followed by the above training agenda. The detail contents of the trainings were as the followings below:

#### 1. How to educate the children during the COVID-19 is a time for an individual by individual:

Allocated time with each child: spending time with your children only 20 minutes or more is up to us, we can do the same time for every day for making your children awaited for this important time to be together with you.

Asked your children what they want to do: provide choices for making them trust by themselves, if they want doing what they can't distance from others, you should talk with them.

Tun of TVs and telephones. This is the time for not talking about the virus. Listen to baby and look at the baby, provide full care of baby and make them exiting.

#### 2. Educate the children during the COVID-19 for keeping positivity:

Talking about the attitudes that you want to see: use good words while telling your children to do something such as please take your clothes away, in state of use word "don't do messy"

Motivate your children while they had good attitudes. Help your teenagers in still carrying on relationships.

#### 3. Educate the children during the COVID-19 by providing the counselling:

Create daily durable habits but with flexibility. Hand washing and hygienic activities in exciting ways. You are a model for your baby habits.

4. Educate the children during the COVID-19 for improving their behaviours:

Turn: note the inappropriate habits as quick as possible and turn your baby's feelings of emotion from bad habits to good habits.

Relax a little: have feelings to shout? Give yourself 10 minutes to relax. Use penalties and use tips.

5. Educate the children during the COVID-19 for keeping silence and control their tension:

You are not alone: millions people have fear like us. Find out one person to whom you can talk about your feelings. List to this person. Avoid using social media which make you panic.

Listen to your children: open heart and listen to your children. Your children will need your supports and your comfort.

6. Educate the children during the COVID-19 for talking about COVID-19:

Open and listen: let your children talk freely. Asked them open questions and find out how much they know about it.

Honesty: reply honestly to their questions. Think how old is your children and how much they can understand about that.

Support: your children may be scare and confused. Provide your children the time for sharing their feelings and let them know well that you are waiting for always supporting them.

Finishing with good messages: observe that nothing happended with your children. Remind them that you are taking care of them and they can tell you every time. Make fund activities together.

## **10. Trainings conclusion:**

The poor and vulnerable households, poor and vulnerable communities villagers, groups/communities members, relevant government focal staff, local authorities, schools and health volunteers TOT participants had understaood clearly about the concepts and necessary and important key messages from the trainings sessions conducted and go back as well as share their learnings and practices to other poor, vulnerable and at risk population in their communities.

The TOT trainings participants, especially the government focal staff and the local authorities as well as schools directors raised that these trainings are very useful and helpful for their communities because it had been happing during/at the crisi time and fear situations of COVID-19 in the provinces and in whole Cambodia country as well. Therefore, they understood now on how to control their tentions and focused on taking the preventive mesures towards the COVID-19 in a safe manner for their communities.

In particularly, the majority of TOT trainings participants have actively participated in the trainins sessions and they furthermore have a very strong commitments to continue spreading their knowledge, awareness and practices from the trainings to other poor, vulnerable and at risk people in their communities.

As evidence, the TOT participants in Kampong Chhnang Province already started to disseminate their knowledge, awareness and practices to other 20 (6 women, 3 men and 11 children) poor, vulnerable and at risk population in Kandal and Chong Kosh villages in Kampong Chhnang province.



COVID-19 educational awareness session facilitated by Chong Kosh village chief in Kampong Chhnang province

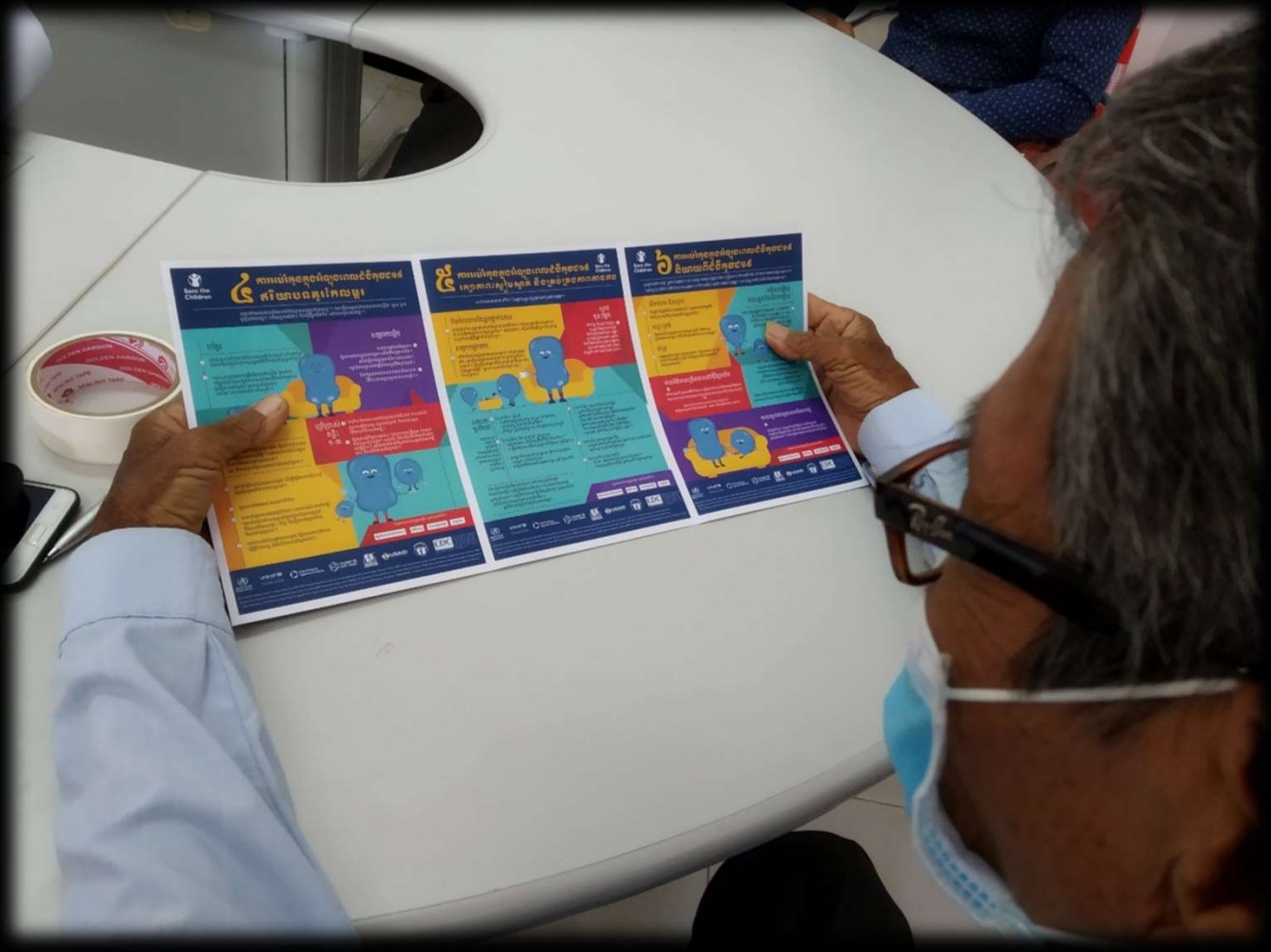
1) If you are going to use them (soft or hard copies) please ensure you report on the following as per UNICEF request:

Partner (Gov/NonGov)	Further distribution (if applicable)	Province name	District name	# of communes	Materials used (if posters, please indicate the #)	Channels for outreach (e.g. radio, TV channels...)	Timeframe	Reached population (approx)	Children reached	Comments
PADEK and WEDC	Not applicable – this is the first round of distribution *	1. Kampong Chhnang, 2. Pursat and 3. Siem Reap	1. Kampong Chhnang, 2. Pursat and 3. AngkorThom	<ul style="list-style-type: none"> <li>7 (1 in Kampong Chhnang, 3 in Pursat and 3 in Siem Reap)</li> </ul>	<ul style="list-style-type: none"> <li>100 positive parenting leaflets</li> </ul>	Conducted TOT outreach trainings in 6 target villages in Kampong Chhnang and Pursat and integration with other events such as food assistant distribution awareness sessions in 4 target villages in Siem Reap	6 days	135 population (Poor villagers, women affairs members, health volunteers, communities villagers and members, Local authorities and Schools children, teachers and directors) including 61 females	59 children including 26 girls	They are the poor households, government, schools, poor communities, group members, local authorities and health volunteers based

**Commented [RP2]:** How this number calculate or come from?

**Commented [RP1]:** If individual, please estimate female, male or boy and girl

\* Yes, we would be able to take additional IEC stocks and distribute posters and leaflets to raise awareness in other target villages and communes



Awareness Raising on Positive Parenting and Covid19









**សេចក្តីប្រកាស ដោយក្រុមគ្រួសារខ្លួនឯង សម្រាប់ការផ្តល់ ដី សំរាប់ដាក់ក្តារពត៌មាន**

កាលបរិច្ឆេទ៖ \_\_\_\_\_

ទីកន្លែង៖ \_\_\_\_\_

**ក. សេចក្តីប្រកាសពត៌មានដោយក្រុមគ្រួសារខ្លួនឯង**

១) ឈ្មោះម្ចាស់ផ្ទះ	អត្ថបទ	
២) ឈ្មោះភូមិ	អត្ថបទ	
៣) ឈ្មោះសង្កាត់	អត្ថបទ	
៤) ឈ្មោះខេត្ត	អត្ថបទ	
៥) លេខទូរស័ព្ទដៃ	ចំនួនលេខ	
៦) ទំហំដីសំរាប់ដាក់ក្តារពត៌មាន	ទំហំ	
៧) ម្ចាស់កម្មសិទ្ធិដីធ្លី	អត្ថបទ	
៨) ខ្ញុំកាន់ឯកសារកាន់កាប់ដីធ្លី	បាទ/ចាស/ទេ/ ពត៌មានលម្អិតផ្សេងៗទៀត	
៩) អត្តសញ្ញាណប័ណ្ណក្រីក្រ	០១/០២	
១០) ខ្ញុំមានអត្តសញ្ញាណប័ណ្ណក្រីក្រ	មាន/ទេ/ ពត៌មានលម្អិតផ្សេងៗទៀត	
១១) សមាជិកគ្រួសារផ្សេងៗទៀត	ឈ្មោះ/អាយុ/ភេទ	១. ២. ៣. ៤. ៥.

ខ្ញុំ \_\_\_\_\_ សូមបញ្ជាក់ថាខ្ញុំជាម្ចាស់ដីស្រែបច្ច័យដែលយើងកំពុងរស់នៅបច្ចុប្បន្ន។  
 ខ្ញុំនឹងគាំទ្រដល់កម្មវិធីផ្សព្វផ្សាយព័ត៌មាន របស់អង្គការ ភាពជាដៃគូដើម្បីការអភិវឌ្ឍនៅកម្ពុជា  
 ហើយ ខ្ញុំយល់ព្រមផ្តល់ដីដូចបានបញ្ជាក់ក្នុងចំណុចលេខ៦ខាងលើ សម្រាប់ការដំឡើង បន្ទះក្តារ  
 ព័ត៌មានដោយស្ម័គ្រចិត្ត។ ខ្ញុំបានផ្តល់ព័ត៌មាន ត្រឹមត្រូវ និង ថ្មីៗបំផុតដល់ អង្គការ PADEK ។  
 អង្គការមិនមែនរដ្ឋាភិបាល កំពុងផ្តល់ព័ត៌មាន ដើម្បីលើកកម្ពស់សុខភាព និង អនាម័យ ដល់  
 សហគមន៍ ភូមិ ក្រីក្រ ដែលបាន ជួបការលំបាក។  
 យើងយល់ថាព័ត៌មានមិនពិតឬការកែតម្រូវបន្តអាចត្រូវបានផ្តន្ទាទោសដោយច្បាប់ដោយអាជ្ញាធរសម  
 ស្រប។ យើងយល់ថាព័ត៌មានដែលផ្តល់ជូនអាចត្រូវបានស៊ើបអង្កេត។

<b>ហត្ថលេខា</b>
<b>ឈ្មោះម្ចាស់ផ្ទះ</b>
<b>កាលបរិច្ឆេទ</b>

**ខ. សេចក្តីបញ្ជាក់ពីអាជ្ញាធរមូលដ្ឋាន**

យើងសូមបញ្ជាក់ថាចំពោះចំណេះដឹង និង ជំនឿជាក់ របស់យើង នូវរាល់ព័ត៌មានដែលបានផ្តល់  
 ទាំងអស់គឺជាការពិត ត្រឹមត្រូវ ពេញលេញ និង ត្រូវបានធ្វើឡើងដោយស្មោះត្រង់ឱ្យបានល្អបំផុត។

ព័ត៌មានបានឯកភាពដោយប្រធានភូមិ	ព័ត៌មានដែលបានអនុម័តដោយសង្កាត់
<b>ហត្ថលេខា</b>	<b>ហត្ថលេខានិងត្រា</b>
<b>ឈ្មោះមេភូមិ</b>	<b>ឈ្មោះចៅសង្កាត់</b>
<b>កាលបរិច្ឆេទ</b>	<b>កាលបរិច្ឆេទ</b>

**បញ្ចប់ឯកសារ**

**Self-Declaration by the Households  
For providing land for Information Boards**

Date: \_\_\_\_\_  
Place: \_\_\_\_\_

**A. Self-Declaration of Information by the Household**

<b>1) Home owner's name</b>	Text	
<b>2) Village's name</b>	Text	
<b>3) Sangkat's name</b>	Text	
<b>4) Province's name</b>	Text	
<b>5) Mobile Number</b>	Number	
<b>Land Size</b> (for installing information board)	Text	
<b>6) Titleholder of the land</b>	Text	
<b>7) I hold the land tenure document</b>	Yes /No/ Other detail	
<b>8) ID poor Category</b>	01/02	
<b>9) I have the ID poor card</b>	Yes/ No/ Other detail	
<b>10) Other Family Members</b>	Name / Age/ Sex	1. 2. 3. 4. 5.

I \_\_\_\_\_, certify that I am the rightful owners of the land on which we currently reside. I will support the information awareness programme of Partnership for Development in Kampuchea (PADEK) and I agree to provide land for the installation of the information board voluntarily.

I have provided the most accurate and up to date information to PADEK. The NGO is providing information to enhance the health and hygiene of the poor and marginalised village communities.

We understand that false or fraudulent information may be punishable by law by appropriate authorities. We understand that any offered information may be investigated.

Signature
Homeowner's name
Date:

**B. Certification by the local authorities**

We certify that, to the best of our knowledge and belief, all of the provided information is true, correct, complete and made in good faith.

Information agreed by the Village Chief	Information approved by the Sangkat
Signature & Stamp	Signature & Stamp
Village chief name	Sangkat chief name
Date:	Date:

End of Document

**សេចក្តីប្រកាសដោយក្រុមគ្រួសារខ្លួនឯងសម្រាប់កម្មវិធីកែលម្អបង្គន់អនាម័យឆ្នាតតូច**

កាលបរិច្ឆេទ៖ \_\_\_\_\_

ទីកន្លែង៖ \_\_\_\_\_

**ក. សេចក្តីប្រកាសព័ត៌មានដោយក្រុមគ្រួសារខ្លួនឯង**

១) ឈ្មោះម្ចាស់ផ្ទះ	អត្ថបទ	
២) ឈ្មោះភូមិ	អត្ថបទ	
៣) ឈ្មោះសង្កាត់	អត្ថបទ	
៤) ឈ្មោះខេត្ត	អត្ថបទ	
៥) លេខទូរស័ព្ទដៃ	ចំនួនលេខ	
៦) ទំហំដីសំរាប់សំណង់បង្គន់	ទំហំ	
៧) ម្ចាស់កម្មសិទ្ធិដីធ្លី	អត្ថបទ	
៨) ខ្ញុំកាន់ឯកសារកាន់កាប់ដីធ្លី	បាទ/ចាស/ទេ/ ព័ត៌មានលម្អិតផ្សេងៗទៀត	
៩) អត្តសញ្ញាណប័ណ្ណក្រីក្រ	០១/០២	
១០) ខ្ញុំមានអត្តសញ្ញាណប័ណ្ណក្រីក្រ	មាន/ទេ/ ព័ត៌មានលម្អិតផ្សេងៗទៀត	
១១) សមាជិកគ្រួសារផ្សេងៗទៀត	ឈ្មោះ/អាយុ/ភេទ	១. ២. ៣. ៤. ៥.

ខ្ញុំ\_\_\_\_\_សូមបញ្ជាក់ថា យើងត្រូវការ ការគាំទ្របង្កន់អនាម័យ ហើយ យើងជាម្ចាស់ដី ដីពិតប្រាកដ ដែលយើងកំពុងរស់នៅ។ យើងយល់ព្រមផ្តល់ដីដូចបានបញ្ជាក់ក្នុងចំណុចលេខ៦ខាង លើ សម្រាប់សកម្មភាព សាងសង់បង្គន់ អនាម័យនោះ។ ខ្ញុំបានផ្តល់ព័ត៌មាន ដ៏ត្រឹមត្រូវ និង ថ្មីៗបំផុតដល់ អង្គការ PADEK ។

អង្គការមិនមែនរដ្ឋាភិបាល កំពុងប្រមូលព័ត៌មានដើម្បីជួយដល់រាជរដ្ឋាភិបាលក្នុងការផ្តល់ ដំណោះស្រាយ បង្គន់អនាម័យ សម្រាប់សហគមន៍ ភូមិ ក្រីក្រ និង ជួបការលំបាក។

យើងយល់ថា ព័ត៌មានមិនពិត ឬ ការកែតម្រូវបន្ត អាចត្រូវបានផ្តន្ទាទោសដោយច្បាប់ ដោយអាជ្ញាធរ សមស្រប។ យើងយល់ថា ព័ត៌មានដែលផ្តល់ជូនអាចត្រូវបានស៊ើបអង្កេត។

<b>ហត្ថលេខា</b>
<b>ឈ្មោះម្ចាស់ផ្ទះ</b>
<b>កាលបរិច្ឆេទ</b>

**ខ. សេចក្តីបញ្ជាក់ពីអាជ្ញាធរមូលដ្ឋាន**

យើងសូមបញ្ជាក់ថាចំពោះចំណេះដឹង និង ជំនឿជាក់ របស់យើង នូវរាល់ព័ត៌មានដែលបានផ្តល់ ទាំងអស់គឺជាការពិត ត្រឹមត្រូវ ពេញលេញ និង ត្រូវបានធ្វើឡើងដោយស្មោះត្រង់ឱ្យបានល្អបំផុត។

ព័ត៌មានបានឯកភាពដោយប្រធានភូមិ	ព័ត៌មានដែលបានអនុម័តដោយសង្កាត់
<b>ហត្ថលេខា</b>	<b>ហត្ថលេខានិងត្រា</b>
<b>ឈ្មោះមេភូមិ</b>	<b>ឈ្មោះចៅសង្កាត់</b>
<b>កាលបរិច្ឆេទ</b>	<b>កាលបរិច្ឆេទ</b>

**បញ្ចប់ឯកសារ**

**Self-Declaration by the Households  
For Small Scale Sanitation Improvements Programme**

Date: \_\_\_\_\_  
Place: \_\_\_\_\_

**A. Self-Declaration of Information by the Household**

<b>1) Home owner's name</b>	Text	
<b>2) Village's name</b>	Text	
<b>3) Sangkat's name</b>	Text	
<b>4) Province's name</b>	Text	
<b>5) Mobile Number</b>	Number	
<b>6) Land Size for latrine construction</b>	Size	
<b>7) Titleholder of the land</b>	Text	
<b>8) I hold the land tenure document</b>	Yes /No/ Other detail	
<b>9) ID poor Category</b>	01/02	
<b>10) I have the ID poor card</b>	Yes/ No/ Other detail	
<b>11) Other Family Members</b>	Name / Age/ Sex	1. 2. 3. 4. 5.

I \_\_\_\_\_, certify that we are in need of Sanitation supports and we are the rightful owners of the land on which we currently reside. We agree to provide land as mentioned above in the point of number 6 for the action. I have provided the most accurate and up to date information to Partnership for Development in Kampuchea (PADEK). The NGO is collecting information to aid the government in providing sanitation solutions for the poor and marginalised village communities.

- The homeowner has to provide all necessary support and access to the construction team and allocate cleared spaces for the action;
- The homeowner has to self-demolish the existing low quality latrines (if present) and clear the space for the new latrine;
- The homeowner will allocate cleared spaces for the roof water harvesting support and also the space for the water storage container;
- The homeowner also takes the responsibility of maintaining the support attained from the project and use it properly;
- The homeowner will attend the training and orientation sessions organized by the implementation team
- The homeowner will provide free and unhindered access to the construction team and Padek teams for implementation and monitoring actions

- Failing to comply will result in delays and possible suspension of the support project;
- PADEK will not provide any support –monetary or otherwise for the above mentioned actions.

We understand that false or fraudulent information may be punishable by law by appropriate authorities. We understand that any offered information may be investigated.

<b>Signature</b>
<b>Homeowner's name</b>
Date:

**B. Certification by the local authorities**

We certify that, to the best of our knowledge and belief, all of the provided information is true, correct, complete and made in good faith.

<b>Information agreed by the Village Chief</b>	<b>Information approved by the Sangkat</b>
Signature	Signature & Stamp
Village chief name	Sangkat chief name
Date:	Date:

End of Document

**Form of undertaking to be executed by  
the land owner with the implementing agency in witness of village chief**

Undertaking

This deed of undertaking is executed between the landowner and the implementing agency – Partnership for Development in Kampuchea (PADEK) at ..... (name of the village) on the.....day of .....(month) 20..... (year) in respect of proposed development / construction of the household latrine at the said premises. The information contained in the undertaking is witnessed and certified true by the village representative.

Details of the landowner and land holding					
1. Ms./Mr.	:		2. Aged	:	
3. Daughter/ son of	:		4. ID Poor Card	:	
5. ID Poor Card Number	:				
6. Mobile Number	:				
7. Address of the land holding :					
House No	:		Commune	:	
Village	:		Province	:	
Land Tenure	:	Hard Title	Soft title		
		Title in the name of relative	Title in name of non-relative		
		Title with the Bank	others		
8. Additional information	:				

- I (Land Owner) have applied for the development / construction in the above premises by submitting an application to the implementation agency – Partnership for Development in Kampuchea-PADEK in accordance with the selection criteria defined by the agency. I am associated with the project as Land Owner.
- I (Land Owner) hereby solemnly affirm and declare that I am the absolute owner of the said property and it is not covered under the any contravention of the law, and I shall be liable for all future consequences in case of land falling under Land Ceiling, Land Reforms or Land Acquisition.
- I (Land Owner) also assure that the open space allocated for the latrine will be kept as specified in the approved plan and it will not be converted into any other use except the purpose for which it is agreed. I assure that I will put up the construction only in accordance with the approved plan without any deviation and if any construction is later on found not in accordance with the approved plan and any unauthorized addition is made, I agree to demolish the such a deviation marked by the PADEK within thirty days after such notice, failing which, PADEK may demolish or cause to demolish such unauthorized or deviated constructions at the site under reference and recover the cost of demolition from me.
- I (Land Owner) hereby declare that my tenure title is with the bank: ..... branch  
..... against a loan of KHR..... for .....(reason).

---

**SIGNATURE OF THE LAND OWNER**

I (Village Chief/ Representative) certify that the information provided by the villager as the legal owner of the land is factually correct to the best of our knowledge and understanding. I hereby agree to support the above mentioned implementation agency Partnership for Development in Kampuchea (PADEK) and the contracted Engineering teams for the active period of building execution and I hereby assure to give Revised Certificate in case of any change. I shall ensure no work taken up in this period is hindered in the village due any conflict or misinformation till the required action is completed.

This deed of undertaking is executed by us on the.....day of.....20.....with the full knowledge of the contents of this document.

Signature of Land owner	Signature and Seal of PADEK Provincial coordinator	Signature and Seal of Village Chief
Mob:	Mob:	Mob:

## Dr.Dipankar Chyau Patnaik

---

**From:** Dr.Dipankar Chyau Patnaik <dcpatnaik08@gmail.com>  
**Sent:** 12 June 2020 14:49  
**To:** 'Alexander David Nash'  
**Cc:** 'Louis Rijk'; 'Pisith Vong'; 'Dor Mao'; 'Ya Samol'; 'Pheourn P'; 'Voeun Veth'  
**Subject:** Revised Set- Small Scale Sanitation -CMEI  
**Attachments:** Bid Doc Spec VII CW9a-12June20.docx; Short-Note-12June2020.docx; Full SpecSet.pdf

Dear Alex,

Good afternoon,

Trust you are doing well,

Please find the revised solution for the small-scale sanitation program for Pursat.

I have consulted with Louis, PMU on this approach.

I have also made a short note for the proposed action, which is attached in addition to the bidding set.

Kindly provide your feedback and let us know of the next steps,

Have a good weekend ahead,

Best

Dipankar

**KINGDOM OF CAMBODIA**  
**NATIONAL RELIGION KING**

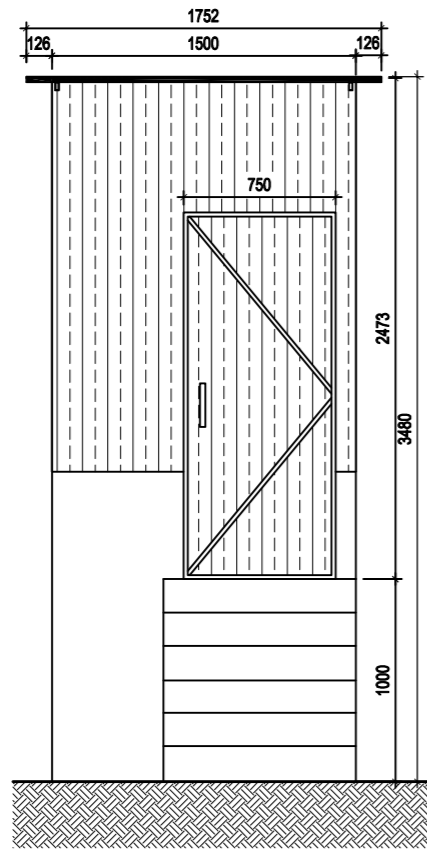


**MINISTRY OF PUBLIC WORKS AND TRANSPORT**

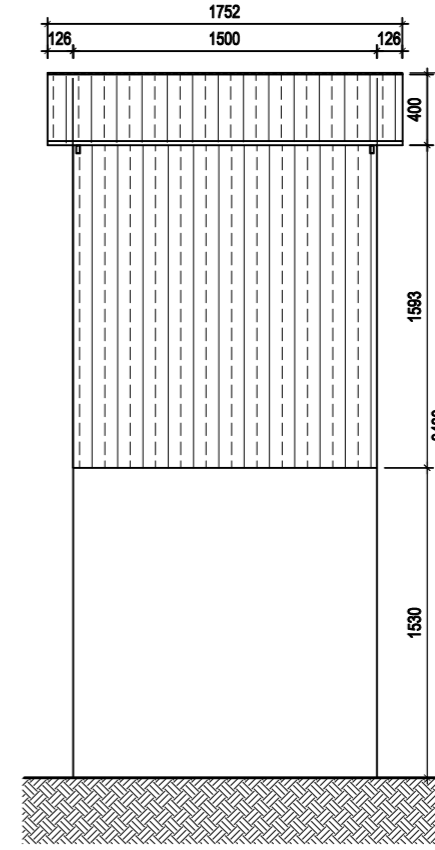
**PROJECT: INTEGRATED URBAN  
ENVIRONMENTAL MANAGEMENT IN  
THE TONLE SAP BASIN (IUEMTSB)  
ADB LOAN No.3311-CAM (SF)**

**SECTION VI**  
**VOLUME II: DESIGNED DRAWINGS**  
**CONSTRUCTION OF .....**

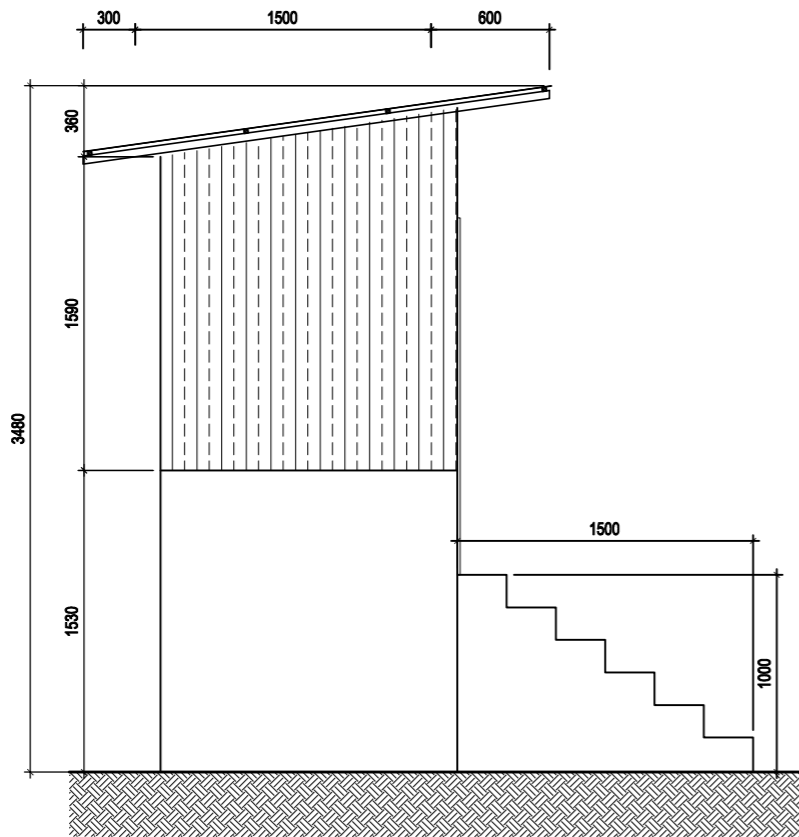
**June 2020**



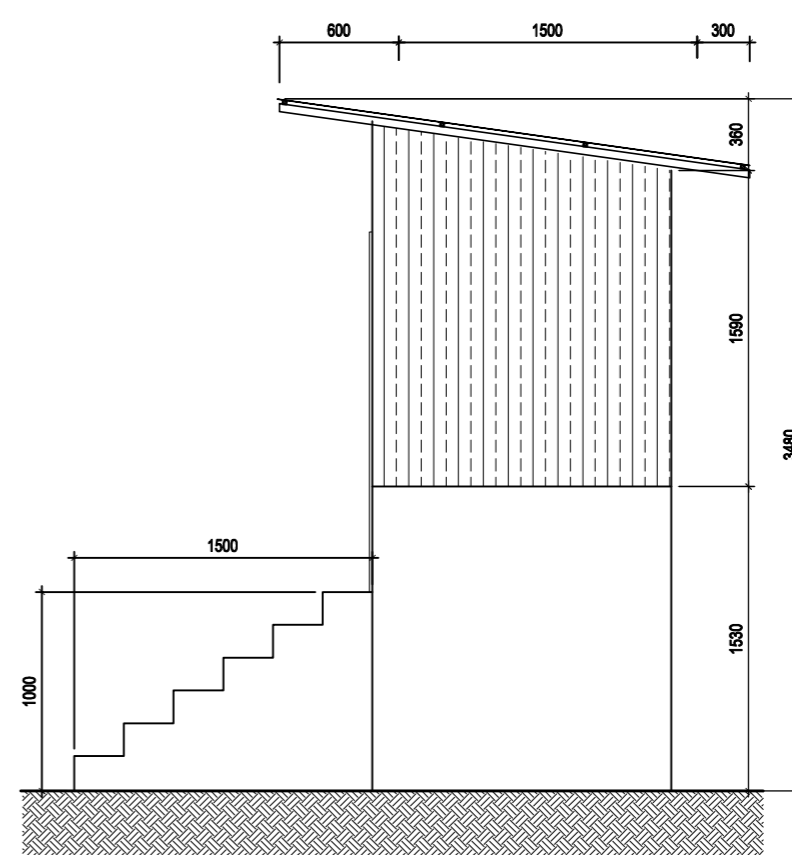
**FRONT PLAN VIEW**



**BACK PLAN VIEW**



**LEFT PLAN VIEW**



**RIGHT PLAN VIEW**

<b>DRAWN BY:</b>	VETH VOEUN
<b>DESIGNED BY:</b>	VETH VOEUN
<b>CHECKED BY:</b>	DIPANKAR CHYAU PATNAIK



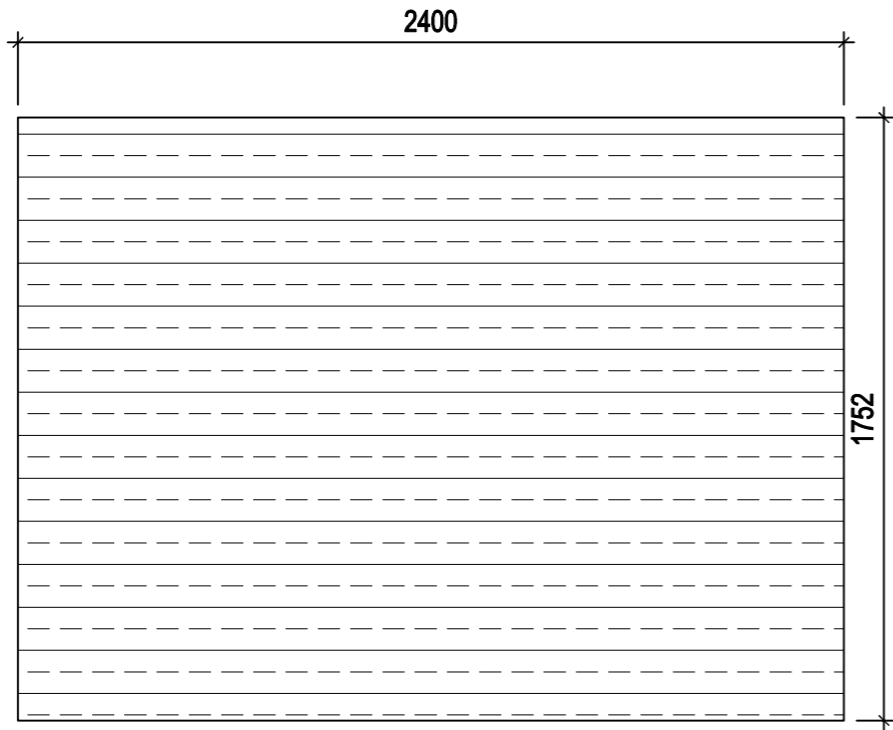
**KINGDOM OF CAMBODIA**  
**MINISTRY OF PUBLIC WORKS AND TRANSPORT**

<b>SUBMITTED BY:</b>	DIPANKAR CHYAU PATNAIK
<b>SUBMITTED BY:</b>	VONG PISITH PROJECT DIRECTOR
<b>DATE:</b>	

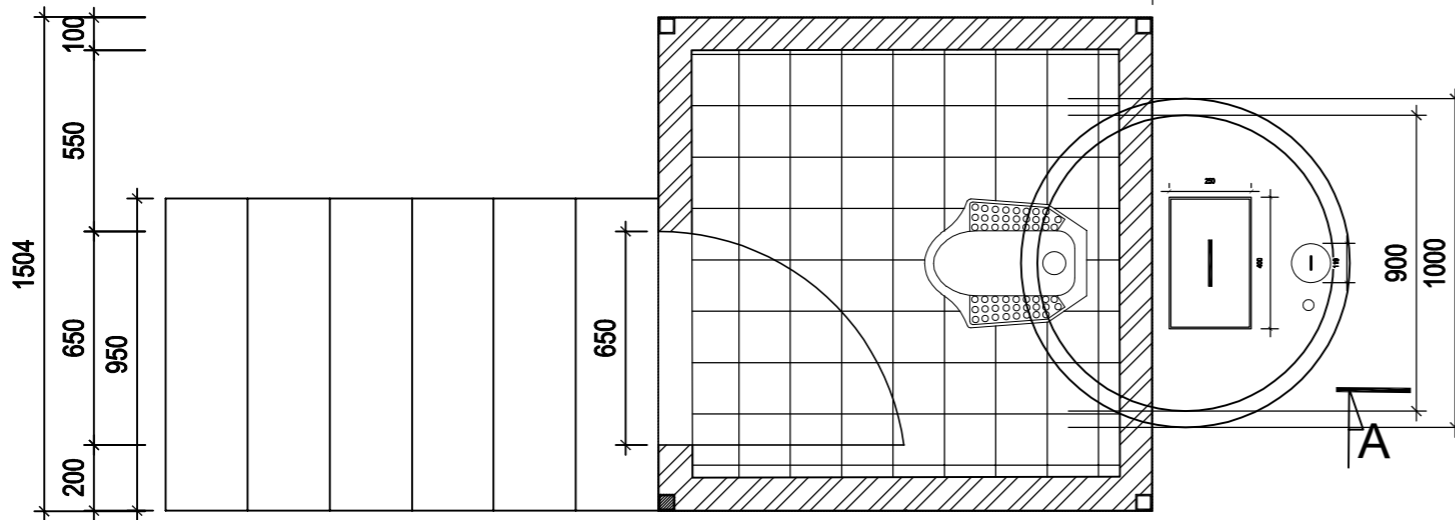
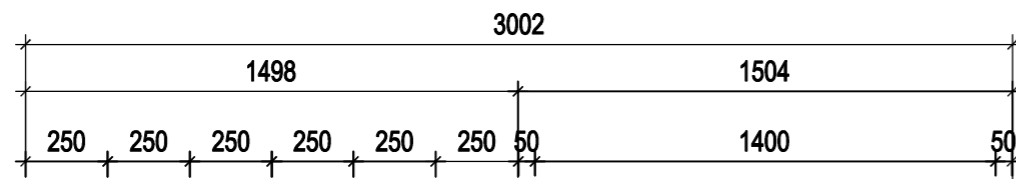
REV.	DESCRIPTION	DATE
1		
2		
3		
4		
5		

<b>PROJECT:</b>	Integrated Urban Environment Management in the Tonle Sap Basin Project ADB Grant: 0454-CAM(SCF)
<b>DRAWING TITLE:</b>	

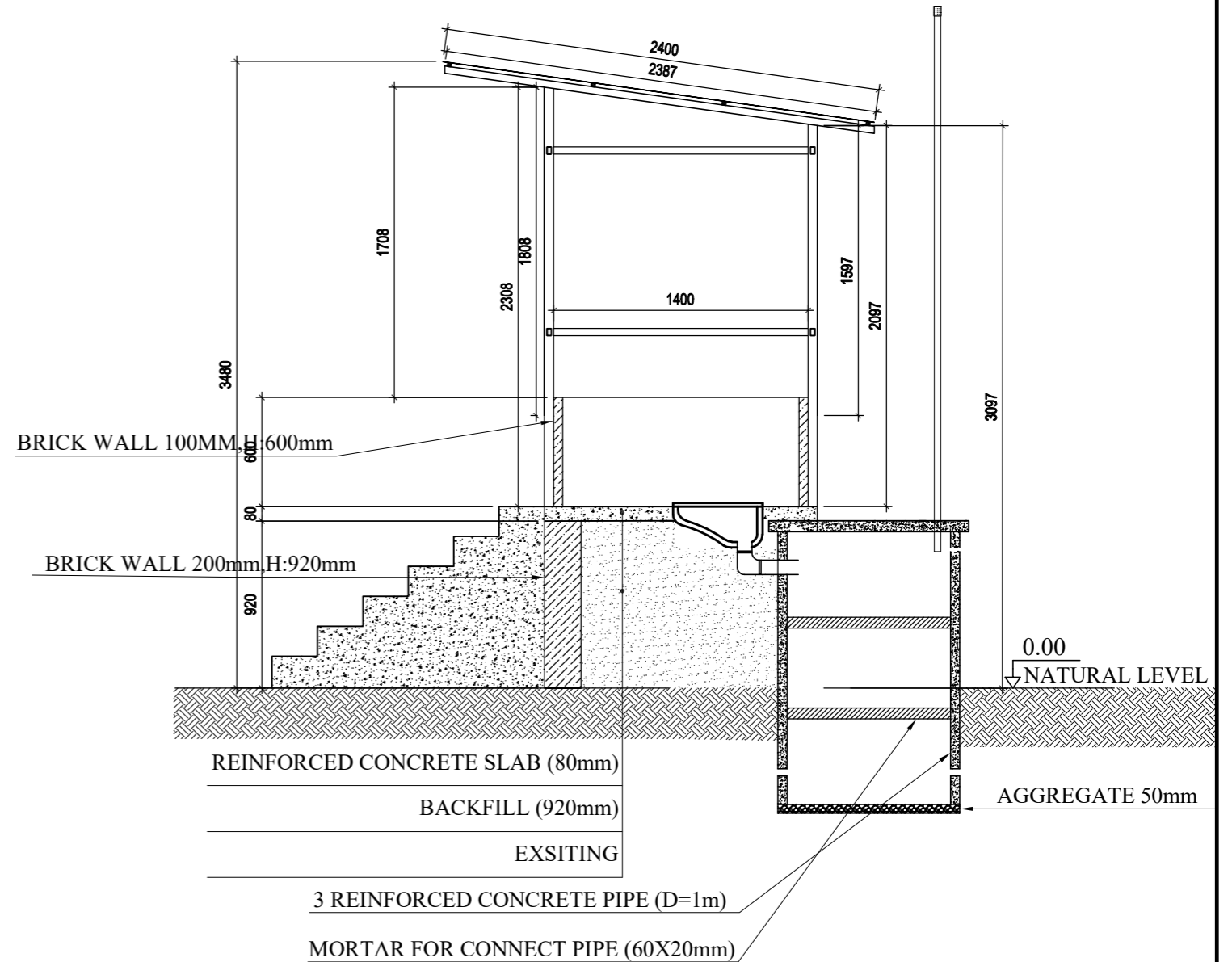
<b>SCALE:</b>	AS SHOWN
<b>DRAWING NO.</b>	02



**ROOF PLAN VIEW**



**PLAN VIEW**



**SECTION A-A PLAN VIEW**

- NOTES:
- 1- LOCATION OF SEPTIC TANK SHALL BE ADJUSTED BASED ON ACTUAL SITE CONDITION
  - 2- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - 3- CONCRETE CLASS SHALL BE  
LEAN CONCRETE 15MPa  
STRUCTURE PART 25MPa
  - 4- CLEAR COVER TO REINFORCEMENT SHALL BE CAST AGAINST GROUND 50mm AND AIR FACE 25mm
  - 5- ALL REINFORCEMENT TO BE HOT ROLLED GRADE 400 DEFORMED BAR TO AASHTO M31-M-86
  - 6- MINIMUM REINFORCEMENT LAP TO BE 30 BAR DIAMETERS
  - 7- LOCATION OF LAP TO BE APPROVED BY ENGINEER.
  - 8- INSTALL BRICK WALL 20 FROM NATURAL LEVEL 0.5 TO 1.5M

DRAWN BY:	VETH VOEUN
DESIGNED BY:	VETH VOEUN
CHECKED BY:	DIPANKAR CHYAU PATNAIK

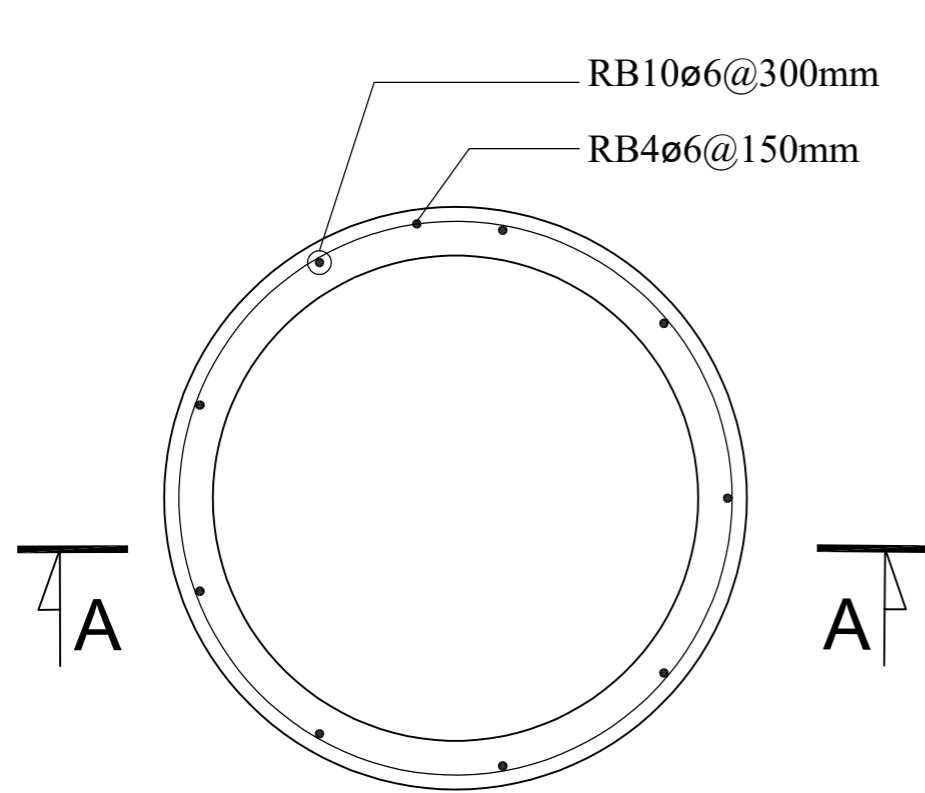
SUBMITTED BY:	DIPANKAR CHYAU PATNAIK
SUBMITTED BY:	VONG PISITH PROJECT DIRECTOR
DATE:	

PROJECT:	Integrated Urban Environment Management in the Tonle Sap Basin Project ADB Grant: 0454-CAM(SCF)
DRAWING TITLE:	

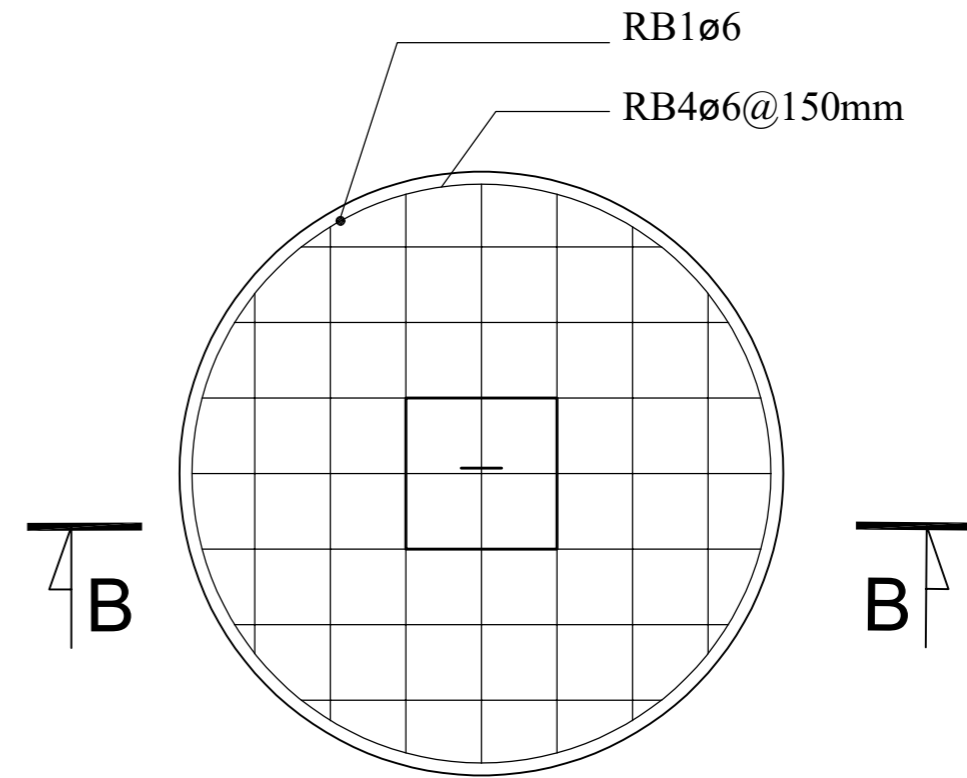
SCALE:	AS SHOWN
DRAWING NO.	01

REV.	DESCRIPTION	DATE
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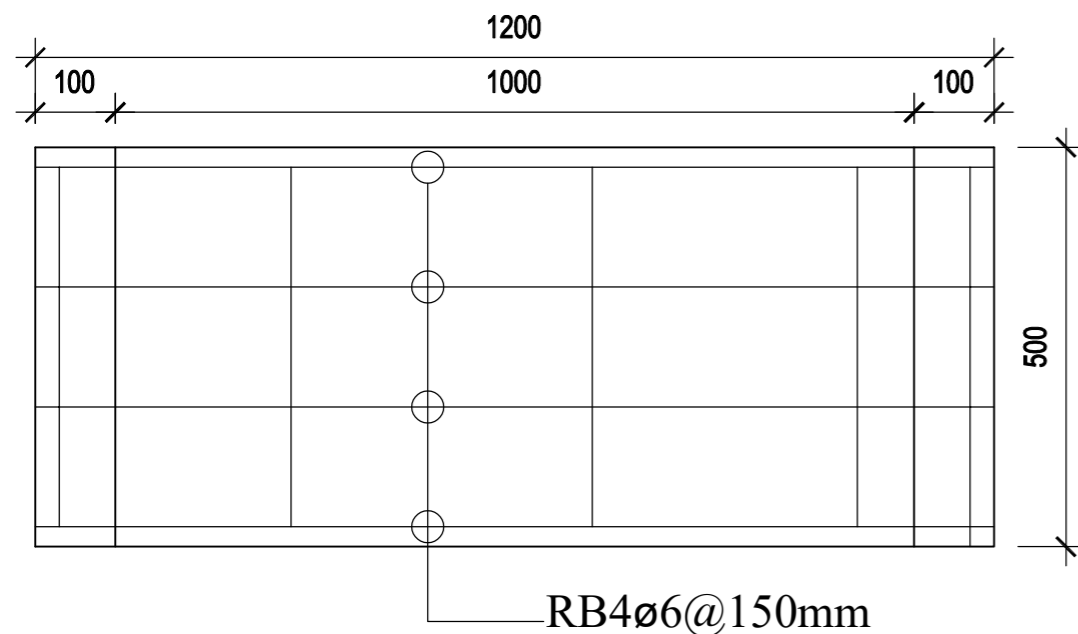
# DETAIL REINFORCEMENT FOR RC PIPE AND COVER



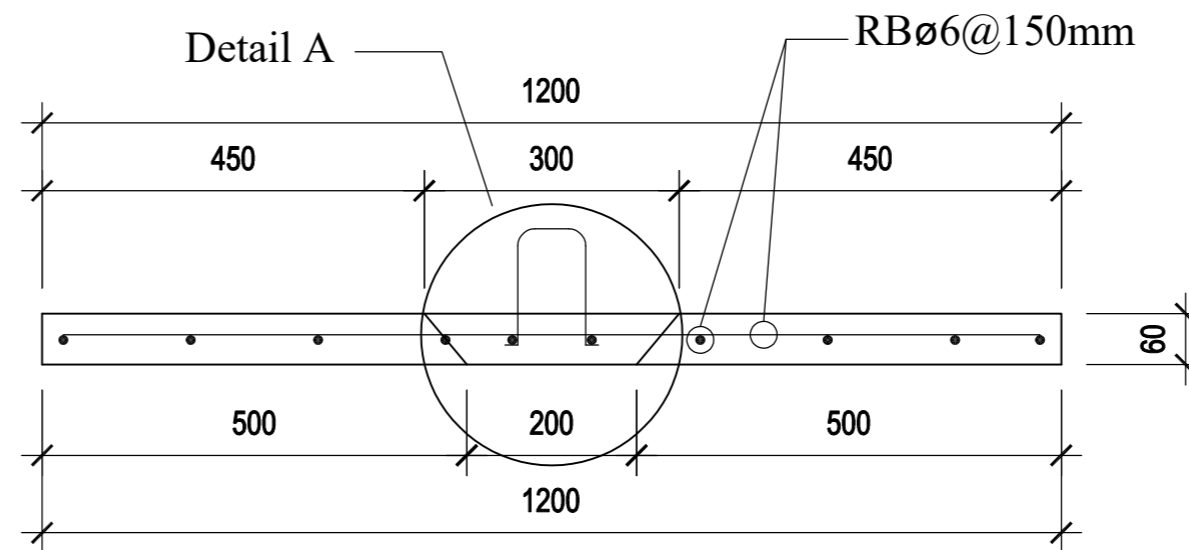
CONCRETE RING



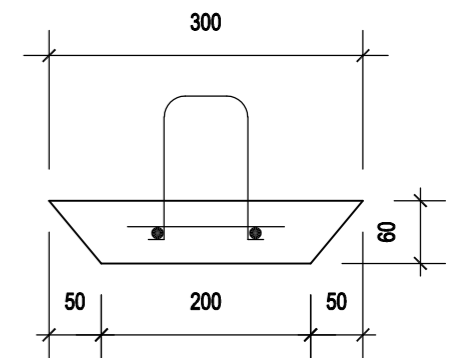
CONCRETE COVER



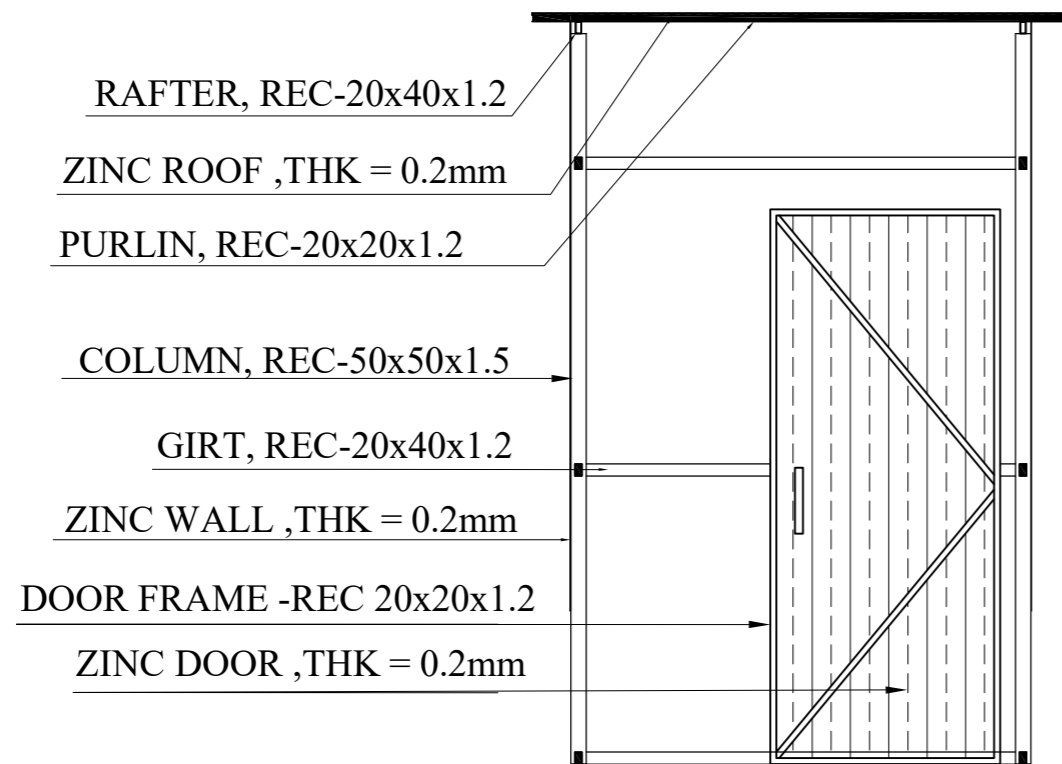
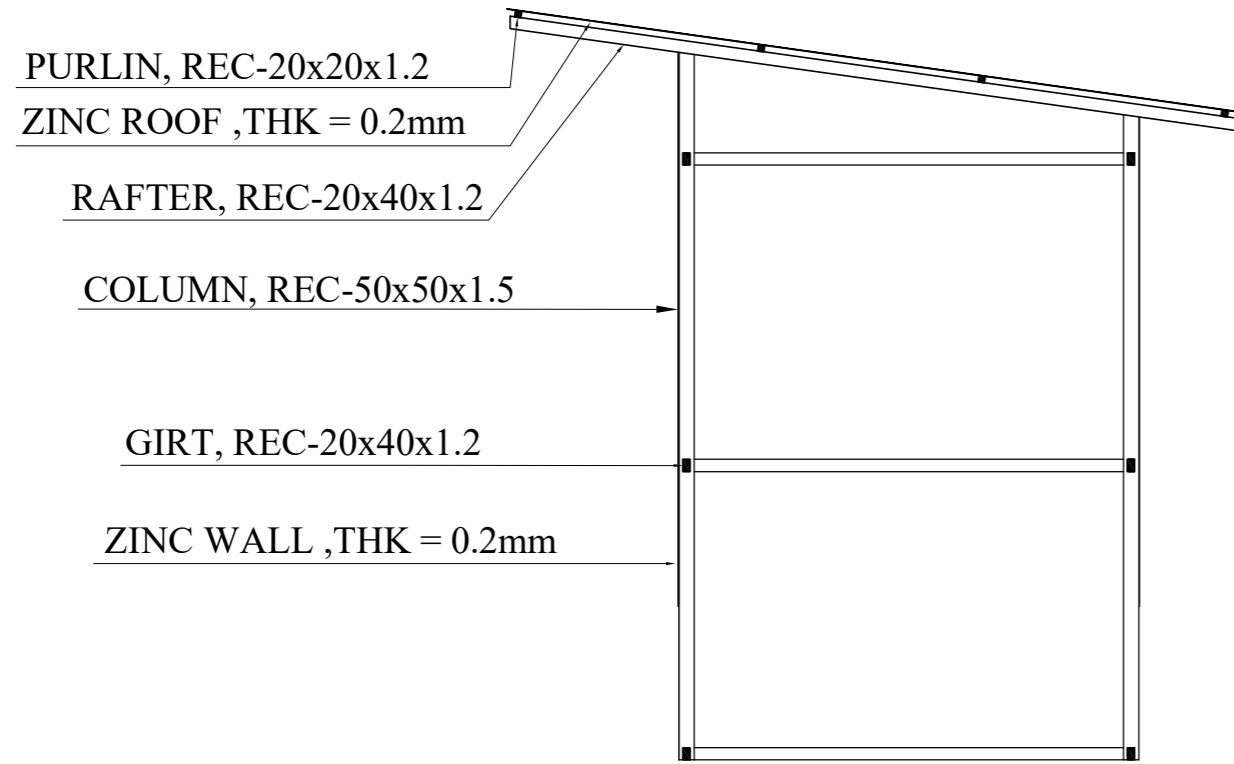
SECTION A-A PLAN VIEW



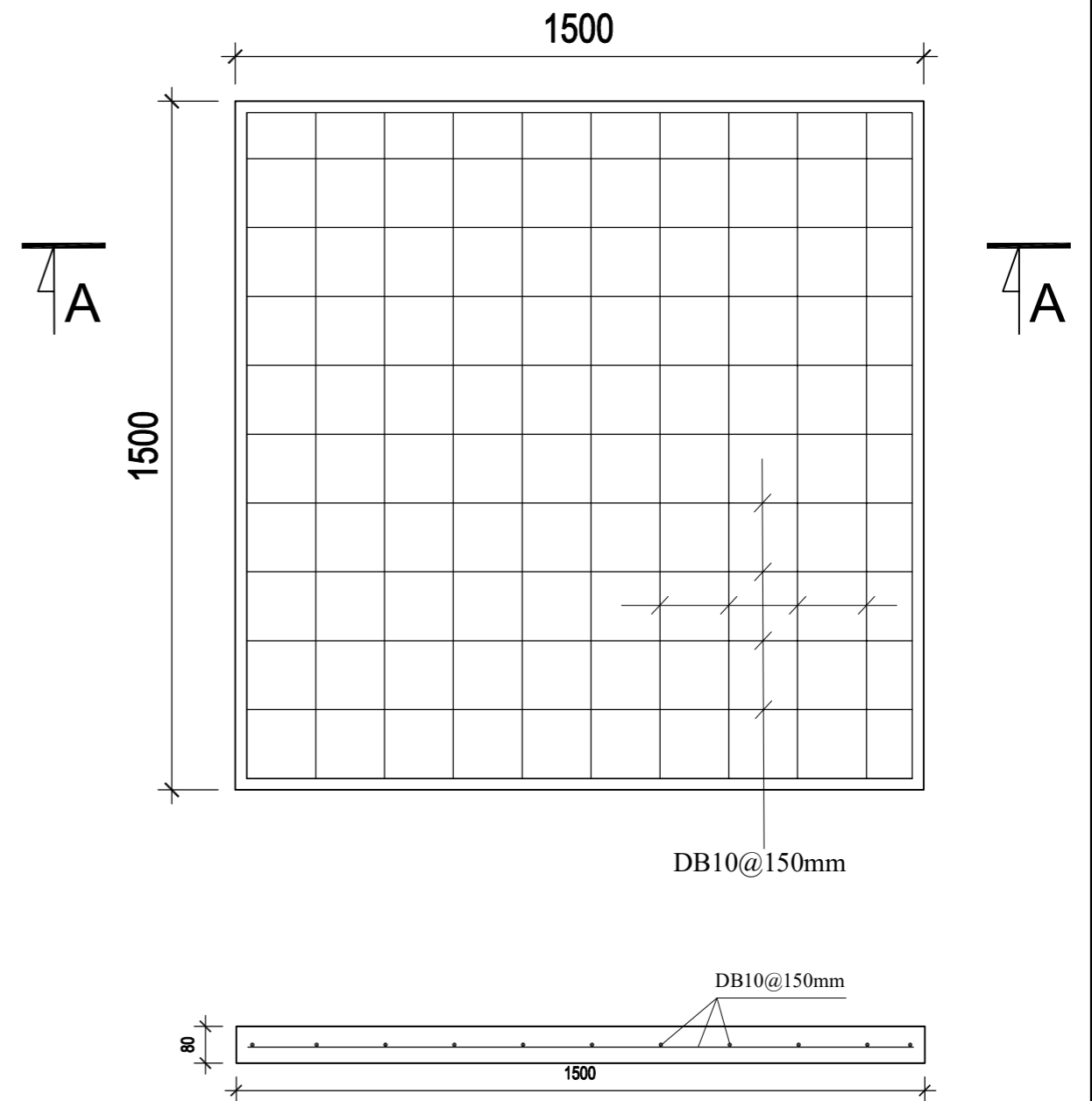
SECTION B-B PLAN VIEW



DETAIL A



**DETAIL STEEL STRUCTURE FRAME**



**DETAIL REINFORCED CONCRETE SLAB**

	DRAWN BY:	VETH VOEUN	<p>KINGDOM OF CAMBODIA          MINISTRY OF PUBLIC WORKS AND TRANSPORT</p>	SUBMITTED BY:	DIPANKAR CHYAU PATNAIK	REV.	DESCRIPTION	DATE	PROJECT: <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF)	SCALE:	AS SHOWN
	DESIGNED BY:	VETH VOEUN		SUBMITTED BY:	VONG PISITH PROJECT DIRECTOR	1				DRAWING TITLE:	DRAWING NO.
	CHECKED BY:	DIPANKAR CHYAU PATNAIK		DATE:	2						
					3						
					4						
				5					03		

## LATRINE

### BOQ and Cost Estimation Toilet to Building at Pursat Province

#### TOILET CONSTRUCTION : 1.5Mx1.5M

No.	DESCRIPTION WORK	UNIT	QUANTITY	UNIT	TOTAL
				PRICE (\$)	(\$)
1	Ring concrete (Diameter = 1.0m)	Number	3.00	9.00	27.00
2	Cover ring concrete(Diameter:1.20m)	Number	1.00	6.00	6.00
3	Slab (1.5M X 1.5M X 0.1M)	M2	2.25	15.00	33.75
4	Brick wall 10 (H:0.6M)	M2	2.40	12.00	28.80
5	Install brick wall 20 from natural level(H:0.5-1.5M)	M2	4.20	18.00	75.60
6	Install stair	SET	1.00	60.00	60.00
7	Gravel compaction ground foundation (W:0.3M, L:6M,H:0.15M)	M3	0.27	35.00	9.45
8	Floor Tile (30x30)	M2	3.00	15.00	45.00
9	Toilet pan	Number	1.00	12.00	12.00
10	Zinc for wall, door and roof (Thickness = 0.2mm)	M2	15.00	12.00	180.00
11	Blue PVC PIPE (Diameter = 34mm,th:8.5mm)	M	4.00	1.00	4.00
12	Floor drainer 60	Number	1.00	2.50	2.50
13	Blue PVC PIPE (Diameter = 100mm,th:8.5mm)	M	1.00	6.00	6.00
14	Blue PVC Connection (D:100mm)		1.00	3.00	3.00
15	Blue PVC D60 ( Th:8.5)	M	2.00	1.50	3.00
16	Labour to complete the construction	SET	1.00	140.00	140.00
<b>SUB-TOTAL BUDGET</b>					<b>636.10</b>

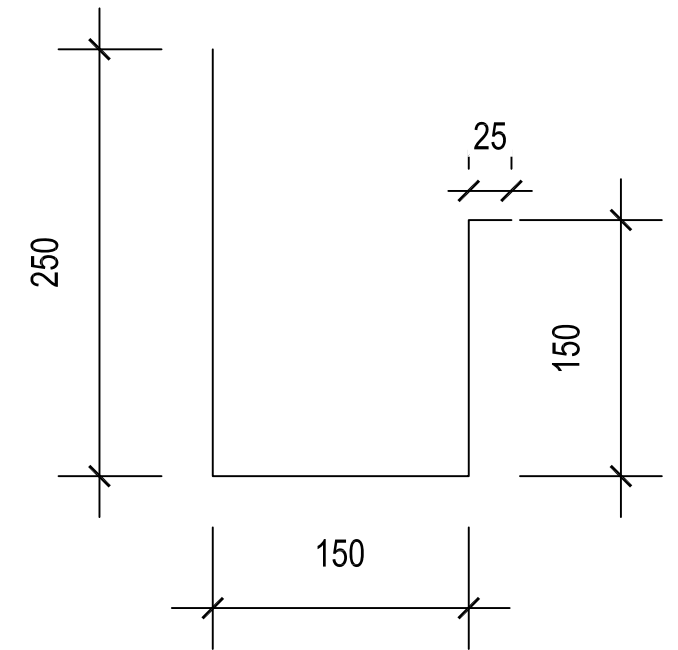
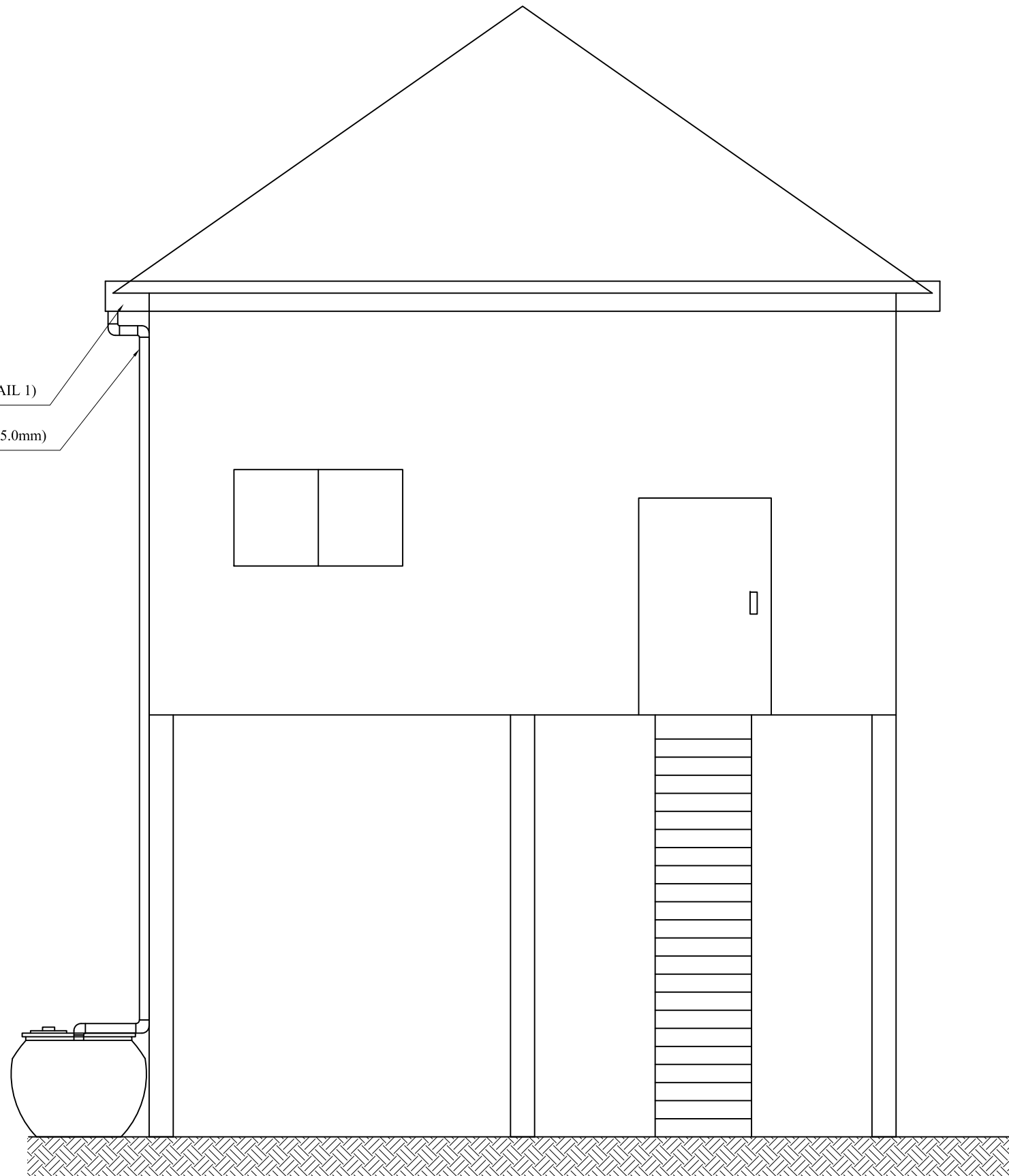


**Cost estimation Water Jar****Water storage container**

No.	DESCRIPTION WORK	UNIT	QUANTIT Y	UNIT	TOTAL
				PRICE (\$)	(\$)
1	Water Jar (V:0.55M3)	Number	1.00	17.50	17.50
2	Cover Water Jar	Number	1.00	5.00	5.00
Total budget					22.50

GUTTER (Zinc 0.4mm) (DETAIL 1)

PVC PIPE (D=80mm,Th=5.0mm)



**DETAIL 1**

	DRAWN BY:	VETH VOEUN	<p>KINGDOM OF CAMBODIA MINISTRY OF PUBLIC WORKS AND TRANSPORT</p>	SUBMITTED BY:	DIPANKAR CHYAU PATNAIK	REV.	DESCRIPTION	DATE	PROJECT: <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF)	SCALE:	AS SHOWN
	DESIGNED BY:	VETH VOEUN		SUBMITTED BY:	VONG PISITH PROJECT DIRECTOR	1				DRAWING TITLE:	DRAWING NO.
	CHECKED BY:	DIPANKAR CHYAU PATNAIK		DATE:	2						
					3						
					4						
					5				01		

## Zinc Gutter and PVC PIPE

<b>Gutter install cost estimation</b>					
<b>No.</b>	<b>DESCRIPTION WORK</b>	<b>UNIT</b>	<b>QUANTIT Y</b>	<b>UNIT PRICE (\$)</b>	<b>TOTAL (\$)</b>
1	Zinc Gutter (Th:0.4MM)	M	6.00	6.00	36.00
2	PVC PIPE (D:80MM, Th: 5.0MM)	M	8.00	2.00	16.00
3	PVC Connector PIPE 90 degree	Number	4.00	2.50	10.00
4	Partition for install gutter	set	1.00	10.00	10.00
5	Labour to complete the install gutter	Set	1.00	10.00	10.00
<b>SUB-TOTAL BUDGET</b>					<b>82.00</b>

## Dr.Dipankar Chyau Patnaik

---

**From:** Dr.Dipankar Chyau Patnaik <dcpatnaik08@gmail.com>  
**Sent:** 07 July 2020 18:55  
**To:** 'Alexander David Nash'  
**Cc:** 'Louis Rijk'; vong\_pisith@yahoo.com; 'Dor Mao'; 'Ya Samol'; 'Pheourn P'; 'Voeun Veth'; 'Virginia E. Villanueva'  
**Subject:** RE: Revised Set- Small Scale Sanitation -CMEI  
**Attachments:** 02-Design-CW09a-07July2020.pdf; 03-BoQ-CW09a-07July2020.xlsx; 04-BenList-CW09a-07July2020.xlsx; 06-Short-Note-12June2020.docx; 01-BidDocTechSpec-CW9a-07July2020.docx

Dear Alex

Good Evening

Trust you are doing well,

Please find the requisite documents set for bidding for the CW09a, I have incorporated the suggestions provided.

The set includes the following:

1. Technical Specifications
2. Design Document
3. BoQ
4. Beneficiary List with detailed data sets and geocode locations– in excel form
5. Google Earth File with location information- to be shared by tomorrow as Luis is compiling the shape files information
6. Short Note on the Rationale

As I have mentioned before, this is phase 01 of the action under the small-scale programming works, the phase 02 will be for SWM related actions.

I once again request you to consider the short note information about looking at the possibility of including poor communities with minimal title documents. This will be immensely beneficial for the needy. We could see this as a possible action in the subsequent contracts also.

While I have made sincere efforts to ensure that we submit the most accurate information, if there are any edits/ feedback to be suggested, do let us know

Have a good day ahead,

Best

Dipankar

---

**From:** Dr.Dipankar Chyau Patnaik <dcpatnaik08@gmail.com>

**Sent:** 06 July 2020 15:02

**To:** 'Alexander David Nash' <anash@adb.org>

**Cc:** 'Louis Rijk' <louisrijk@gmail.com>; vong\_pisith@yahoo.com; 'Dor Mao' <dor\_mg@yahoo.com>; 'Ya Samol' <yasamol@yahoo.com>; 'Pheourn P' <necc.pheourn@gmail.com>; 'Voeun Veth' <vethvoeun07@gmail.com>; 'Virginia E. Villanueva' <villanueva@adb.org>

**Subject:** RE: Revised Set- Small Scale Sanitation -CMEI

Dear Alex,

Good afternoon

Thanks for the mail and confirmation,

I will keep my timeline of sharing the document set on latrine construction by tomorrow evening so that we can advertise ASAP.

**The update on the solid waste management is as below:**

1. We have drafted a questionnaire for Solid Waste Management already in May-June 2020
2. This is to collect the information and understand the capacity of the present SWM system and work towards remedial options.
3. I have completed two pilots in Kampong Channang and Pursat already (June 2020)

4. The draft was further streamlined based on the pilots in the two provinces and this has resulted in two sets of questionnaire emerging- one for the households and the other one for the province level officials.
5. The two questionnaire have been shared with ADB team and PMIS TL for feedback and inputs (mid-June 2020)
6. I am also working on a detailed questionnaire for the senior officials responsible for SWM, which will be a top line action to be run with the officials in Phnom Penh.
7. We are also in the process of mapping the waste pickers and making a directory of the field operatives connected with the solid waste management actions

Once finalized, we will run this in the two provinces on a digital data collection platform and come up with the findings.

These findings will be helpful in providing a clear understanding of the present situation and help in designing the package to cater to the needs of the people.

Thanks in advance and Have a good day

Best  
Dipankar

---

Dr. Dipankar Chyau Patnaik

Team Leader - Community Mobilization and Environmental Improvements (CMEI)

Integrated Urban Environmental Management in the Tonle Sap Basin

PADEK in partnership with WEDC

E-mail: [dcpatnaik08@gmail.com](mailto:dcpatnaik08@gmail.com) & [dipankar@padek.org](mailto:dipankar@padek.org) | Website: [www.padek.org](http://www.padek.org) | Skype: bridgedipankar

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**From:** Alexander David Nash <[anash@adb.org](mailto:anash@adb.org)>

**Sent:** 06 July 2020 13:34

**To:** Dr. Dipankar Chyau Patnaik <[dcpatnaik08@gmail.com](mailto:dcpatnaik08@gmail.com)>

**Cc:** Louis Rijk <[louisrijk@gmail.com](mailto:louisrijk@gmail.com)>; [vong\\_pisith@yahoo.com](mailto:vong_pisith@yahoo.com); Dor Mao <[dor\\_mg@yahoo.com](mailto:dor_mg@yahoo.com)>; Ya Samol <[yasamol@yahoo.com](mailto:yasamol@yahoo.com)>; Pheourn P <[necc.pheourn@gmail.com](mailto:necc.pheourn@gmail.com)>; Voeun Veth <[vethvoeun07@gmail.com](mailto:vethvoeun07@gmail.com)>; Virginia E. Villanueva <[vvillanueva@adb.org](mailto:vvillanueva@adb.org)>

**Subject:** RE: Revised Set- Small Scale Sanitation -CMEI

Hi Dipankar

OK – please send through the complete set of bidding documents Tuesday even then, so we can advertise as soon as possible.

Please also send an update on the solid waste management activities you are undertaking.

I will send you a separate email on any surveying you plan on doing.

Kind regards,

Alexander Nash  
Asian Development Bank

Tel +63 (0) 2 8632 5102  
[anash@adb.org](mailto:anash@adb.org)

---

**From:** Dr. Dipankar Chyau Patnaik <[dcpatnaik08@gmail.com](mailto:dcpatnaik08@gmail.com)>

**Sent:** Friday, July 3, 2020 3:53 PM

**To:** Alexander David Nash <[anash@adb.org](mailto:anash@adb.org)>

**Cc:** Louis Rijk <[louisrijk@gmail.com](mailto:louisrijk@gmail.com)>; [vong\\_pisith@yahoo.com](mailto:vong_pisith@yahoo.com); Dor Mao <[dor\\_mg@yahoo.com](mailto:dor_mg@yahoo.com)>; Ya Samol <[yasamol@yahoo.com](mailto:yasamol@yahoo.com)>; Pheourn P <[necc.pheourn@gmail.com](mailto:necc.pheourn@gmail.com)>; Voeun Veth <[vethvoeun07@gmail.com](mailto:vethvoeun07@gmail.com)>; Virginia

E. Villanueva <[vvillanueva@adb.org](mailto:vvillanueva@adb.org)>

**Subject:** Re: Revised Set- Small Scale Sanitation -CMEI

Dear Alex,

Thanks for the mail and the feedback, please find the topline responses

1. Use of Volunteer labour: We will take out this component from the main construction action lines. Hence, we don't have price this intent or keep it within the bid purview and it remains clearer for the contractor as well. We will encourage the community volunteering more towards the landscaping actions at the site on a personal level as this is an individual household action.
2. Zinc on the side walls: this was discussed with the communities and this is the usual practice when building, so it is advisable to go with it.
3. A single pit design is sufficient as per the current practices, needs and is manageable by the communities.

I will share a revised set with the requisite documents including the compiled BoQ, beneficiary numbers and survey mapping information by Tuesday evening as I have to consult with Louis on this prior to sharing ( he is travelling to kampot and kpch),

I just wanted to know if you have reviewed the document on the rationale and would you need any further information on it?

Have a good afternoon ahead,

Thanks for continual support,

Best

Dipankar

---

Dr. Dipankar Chyau Patnaik

Team Leader - Community Mobilization and Environmental Improvements (CMEI)

Integrated Urban Environmental Management in the Tonle Sap Basin

PADEK in partnership with WEDC

E-mail: [dcpatnaik08@gmail.com](mailto:dcpatnaik08@gmail.com)

Please consider the environment before printing this email

On Thu, Jul 2, 2020 at 1:46 PM Alexander David Nash <[anash@adb.org](mailto:anash@adb.org)> wrote:

Dear Dipankar, Louis

Apologies for the delay – this is fine – see a couple of attached comments (minor) – basically:

1. Use of volunteer labour – we probably need to be clear on this to allow contractors to price properly, and also to avoid abuse (where they price for labour, but then manage to get volunteers, etc). Don't leave it up to the contractor to "negotiate" – take a position and make it clear for pricing and contract purposes.
2. Zinc on the side walls is quite dear – we discussed finding a substitute (if available) such as reeds / cane or other local materials ? Was none available? What do most latrines use?
3. Could the savings be put into a second chamber to have a duty / rest system ? I say this **only as an idea / suggestion** – if everyone uses the single pit / chamber system and there is an accepted method for safe sludge disposal / evacuation, fine. If there isn't, perhaps 2 chambers would help ? Only if we can lower the zinc costs.

Can you send me **the rest of the bidding documents** because I cant see the results of the recent survey work you did with Louis, nor the total numbers of beneficiaries, their locations etc. I will review in parallel to your final adjustments and then we can advertise.

Best,

Alexander Nash

Asian Development Bank

Tel +63 (0) 2 8632 5102  
[anash@adb.org](mailto:anash@adb.org)

---

**From:** Dr.Dipankar Chyau Patnaik <[dcpatnaik08@gmail.com](mailto:dcpatnaik08@gmail.com)>

**Sent:** Friday, June 12, 2020 3:49 PM

**To:** Alexander David Nash <[anash@adb.org](mailto:anash@adb.org)>

**Cc:** 'Louis Rijk' <[louisrijk@gmail.com](mailto:louisrijk@gmail.com)>; [vong\\_pisith@yahoo.com](mailto:vong_pisith@yahoo.com); 'Dor Mao' <[dor\\_mg@yahoo.com](mailto:dor_mg@yahoo.com)>; 'Ya Samol' <[yasamol@yahoo.com](mailto:yasamol@yahoo.com)>; 'Pheourn P' <[necc.pheourn@gmail.com](mailto:necc.pheourn@gmail.com)>; 'Voeun Veth' <[vethvoeun07@gmail.com](mailto:vethvoeun07@gmail.com)>

**Subject:** Revised Set- Small Scale Sanitation -CMEI

Dear Alex,

Good afternoon,

Trust you are doing well,

Please find the revised solution for the small-scale sanitation program for Pursat.

I have consulted with Louis, PMU on this approach.

I have also made a short note for the proposed action, which is attached in addition to the bidding set.

Kindly provide your feedback and let us know of the next steps,

Have a good weekend ahead,

Best

Dipankar



**KINGDOM OF CAMBODIA**  
**Ministry of Public Works and Transport**

**Integrated Urban Environmental Management in the Tonle Sap Basin Project**

**Output 3: Community Mobilization and Environmental Improvements (CMEI).**

**National Competitive Bidding (NCB) Document**

**For Procurement of Works**

**Construction of small-scale sanitation and environmental improvement facilities in Pursat Town and surrounding areas**

**Volume II**

**TECHNICAL SPECIFICATION**

Procurement Ref : PMU/MPWT/IUEMTSBP/NCB/CW09.01  
Implementing Agency : Ministry of Public Works and Transport  
Project : Integrated Urban Environmental Management  
In the Tonle Sap Basin Project  
Funding : Asian Development Bank  
Grant/Loan No. : ADB Loan 3311-CAM (SF)/ 8295-CAM (SCF), Grant No.  
0454-CAM

**July 2020**

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## SPECIFICATIONS & PERFORMANCE REQUIREMENTS

### 1) GENERAL

The Works specified in this Section include the supply, installation, and construction of all items concerning the construction of all the components of household latrines. The Contractor shall perform the works carefully and adequately, providing his own staff, labour force, and the necessary equipment and materials. The Works shall be performed in accordance with these technical specifications, the drawings, other relevant Project Document, and all others norm and regulations in force in the Kingdom of Cambodia.

The term “Project Manager” or the “Engineer” used in this document may also be any other competent person appointed by the Employer and notified to the Contractor, to act in replacement of the Project Manager), who is responsible for supervising the execution of the Works and administering the Contract.

For the household latrines, the Contractor may use locally available construction materials and technologies for the construction of pour-flush household latrines as detailed in the Drawing.

All materials to be incorporated into the Works shall be new or approved by Engineer. Materials shall be transported, stored and stacked according to the manufacturer’s instructions and requirements. Materials and products with defects shall be rejected from the site and replaced at the Contractor’s cost, if required so by the Engineer.

As soon as reasonable after the Contract has been awarded, the Contractor shall submit to the Engineer for his approval list of proposed suppliers, sources of the materials and technical information concerning the materials to be used for execution of the works. The Engineer may require additional information (certificates, test reports, installation manuals etc.) and shall give his decision no later than two weeks after receiving all necessary information, concerning suppliers and materials.

No material shall be obtained and used in works before its approval by the Engineer. Approval shall be obtained sufficiently in advance to avoid delay in field works.

For the purpose of this contract, the technical designs and work specifications will be as follows:

<b>Work Specifications of Latrine</b>	
<b>Activities/ Requirements</b>	<b>Specifications</b>
1. Work Program	<ul style="list-style-type: none"><li>• The contractor shall communicate with the Project Manager, respective village chiefs and relevant beneficiary household regarding the work program for the construction of the latrines.</li><li>• These parties for the construction of latrines will jointly agree the work program and the work program shall also include the agreed list of the names of the beneficiary households.</li><li>• The work program shall submit the work program for approval from the Project Manager and the Employer prior to the commencement of works.</li><li>• The Contractor will provide a copy of the agreed work program to each beneficiary household.</li></ul>

<b>Work Specifications of Latrine</b>	
<b>Activities/ Requirements</b>	<b>Specifications</b>
2. Site Preparation and Shop drawings	<ul style="list-style-type: none"> <li>• <b>Site Selection:</b> Upon commencement of the works, the construction site for the family latrine will be selected by the beneficiary households following the criteria include but not limit to the following: good location for construction of a septic tank, at least 30 meters away from an existing well, and not prone to flooding..</li> <li>• The Contractor is responsible for preparing the shop drawings for construction and submit for approval by the Project Manager prior to commencement of the works.</li> </ul>
3. Tools and Materials	<ul style="list-style-type: none"> <li>• <b>Tools:</b> hoes, baskets, spades, hammers, measuring tapes, concrete ring lifting equipment, profile boards, line level, string lines, welder, cutting machine, etc.</li> <li>• <b>Materials:</b> Portland cement, river sand, coarse aggregate (gravel), screw zinc (corrugated galvanized mild steel, hereafter referred to as “zinc”, ASTM standard A123 / A123M - 17), water, concrete ring, septic tanks, bricks, tiles, toilet pan, nails, wire, plastic PVC-Ø100 mm and Ø21, 27mm pipes meeting ASTM Standard D 2665, steel bar and all other materials as shown in the <i>approved</i> technical drawings and/or as approved by the Project Manager and/or Employer.</li> <li>• <b>Concrete Ring moulds:</b> a minimum of one steel concrete ring mould per village is required (i.e. 2 moulds).</li> </ul>
4. Soil Excavation	<ul style="list-style-type: none"> <li>• <b>Soil Excavation and Digging:</b> The first activity in the construction of family latrine is the excavation and digging of soil, and to place two sets of concrete ring as shown in the Drawings to make two in-ground tanks. Safety measures shall be taken to ensure the safety of workers and non-workers.</li> </ul>
5. Latrine Section: Installation of Dual Septic Tank system	<ul style="list-style-type: none"> <li>• <b>Compaction:</b> After soil excavation for the placing of the concrete septic tanks, contractor shall be compact ground soil layer and then pour 50mm thickness of lean concrete (grade 15MPa)</li> <li>• <b>Installation of Concrete rings:</b> After the soil excavation and foundation slab, the installation of the concrete rings and the PVC pipe with relevant diameter must also be installed and firmly attached to the concrete ring.</li> <li>• <b>Back Filling:</b> After completing the installation of the PVC pipe into the concrete rings, the concrete ring tanks must be back-filled all around with materials approved by the Engineer, and a concrete cover placed over each tank.</li> </ul>
6. Latrine Section:	<ul style="list-style-type: none"> <li>• <b>Installation of Ceramic water seal pan and Concrete Mortar:</b> concrete mortar (grade 15MPa) must be mixed to satisfaction of the Engineer and installed together with the ceramic water seal pan in accordance with the dimensions and levels as shown in the approved Drawings.</li> </ul>
7. RC Structures	<ul style="list-style-type: none"> <li>• <b>Construction of slab.</b> Latrine slab shall be constructed with reinforcement concrete with dimensions, levels...etc. as shown in the approved drawings and as</li> </ul>

<b>Work Specifications of Latrine</b>	
<b>Activities/ Requirements</b>	<b>Specifications</b>
	<p>approved by the Project Manager Reinforcement bar shall be 10mm of round bar at 150m spacing (grade 235MPa)</p> <ul style="list-style-type: none"> <li>• Prior to pouring concrete, slump test shall be conducted. A mixed concrete of slump of 50-100mm shall be used.</li> <li>• The slab shall be constructed from reinforced concrete and shall be as shown in the drawing. The slab shall be finished with a smooth and level surface that is free from any low or high points. The reinforcement bar shall be properly tied together with steel tie wire to maintain shape whilst concrete is being poured. The minimum thickness of concrete cover for all steel reinforcement shall be 25mm.</li> </ul>
8. Masonry walls of foundation and superstructure	<ul style="list-style-type: none"> <li>• The masonry walls shall be constructed with approved bricks with quality and appropriate sizes, with dimensions as shown in approved shop drawings and as approved by the Project Manager. Bricks shall be regular in shape and of size 90mmx90mmx190mm for the hollow brick used in the foundations and 45mmx90mmx190mm for the solid brick used in the latrine superstructure walls.</li> <li>• <b>Masonry Walls</b> Bricks shall be thoroughly washed and soaked for at least 4 hours before being used. Bricks shall be laid plumb and level along a string. The height of one day's work shall not exceed 1500mm. Bricks shall be laid to provide good keying in all direction as follows:  All brick works joints shall be filled full with mortar. Joints in brickwork receiving rendering afterwards shall be raked clean to a depth of 10mm to ensure a proper bonding. Masonry shall be cured for a period of 7 days.  The brickwork shall be joined by mortar joint of nominal thickness of 15 mm. All brickwork shall be constructed in a true and straight vertical plane. All the brickwork shall be constructed by skilled and competent bricklayers.  - For a plain brickwork wall of a half brick thickness or 100mm, the plain bricks need conforming to the following specification: Minimum compressive strength should be 14 MPa for individual bricks whereas an average over 5 bricks should attain strength of 18 MPA. Bricks shall be laid in common bond. Unless otherwise specified, plain bricks shall be used in all masonry works under foundation, water tanks, and other structures exposed to water.  Hollow brick work of a half brick thickness or 100mm needs conforming to the following specification: They will be extruded brick type, properly fired in a kiln. Bricks shall be laid in stretcher bond.</li> <li>• <b>Wall Mortar Rendering</b> Internal brick surfaces shall be rendered in preparation for tiling to a thickness of 10mm.  External brick surfaces shall be rendered and finished with cement to a thickness of 15mm.</li> </ul>

<b>Work Specifications of Latrine</b>	
<b>Activities/ Requirements</b>	<b>Specifications</b>
	<ul style="list-style-type: none"> <li>- For internal brick surface: Mix in volume (1:6) 1 part of Portland cement to 6 parts of fine sand or approximately 250 kg of cement per m<sup>3</sup> of sand. The mix shall be added with 20% of lime.</li> <li>- On concrete surface or external brick surface: Mix in volume (1:4) 1 part Portland Cement to 4 parts of fine sand.</li> </ul> <p>Mortar shall be mixed in such quantities as it can be used within a period of 3 minutes after the mixing with water. Mortar that has taken initial setting shall be discarded. The water-cement factor of the mortar shall be no more than 0.5.</p>
9. Latrine superstructure walls (enclosure)	The latrine superstructure walls shall be made of locally sources reed / thatch / bamboo screening material attached to the steel frame using steel wire.
10. Roofing	<p>The roof works includes but not limit to the following works (steel structural members and zinc works):</p> <ul style="list-style-type: none"> <li>- Supply and construction of 20mmx40mmx1.2mm tube steel rafters</li> <li>- Supply and construction of 20mmx20mmx1.2mm tube steel purlins</li> <li>- Supply and construction of steel connection</li> <li>- Supply and installation of zinc roof and door</li> <li>- All steel and zinc works required for the good use of all the installation</li> <li>- All other incidental items to complete the works.</li> </ul>
11. Staffing	<ul style="list-style-type: none"> <li>• <b>Staffing:</b> If the contractor intends to hire skilled and unskilled labour from the beneficiary community where the family latrine will be constructed (i.e. labour for concrete ring and slab making, and construction works), the contractor shall discuss with the village chiefs and adhere to the applicable Cambodian labour regulations regarding pay and conditions. Although the Project Manager may facilitate the discussion, the Project Manager will not decide on these matters.</li> </ul> <p>The Contractor must ensure that the selected skilled and unskilled labourers are capable and willing to complete the contracted activities for the construction of public latrine and the contractor must pay labourers on time in accordance with the agreed payment terms.</p> <ul style="list-style-type: none"> <li>• The contractor shall not employ children.</li> </ul>
12. Payment for latrines	<ul style="list-style-type: none"> <li>• Payment for latrines shall be made for completed works in all aspects and in accordance with the specifications, and per the pay items in the Bill of Quantities.</li> </ul>

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## 2) SUPPLY OF CONSTRUCTION MATERIALS AND CONSTRUCTION PROGRAM OF LATRINES

The Contractor shall submit to the Project Manager for review and approval (i) the construction program for the whole of the works; (ii) construction shop drawings; (iii) materials; (iv) samples and equipment product data; (v) samples and test results and (vi) other requirements as specified in related sections or required by the Project Manager, prior to the intended date of use of all such materials and equipment in the permanent works. The Project Manager shall review all submittals to ensure that they conform to the Contract.

Except as otherwise so stated, the Project Manager shall review the construction program, shop drawings, materials, samples and equipment product data, samples and test results within fourteen (14) days of the submission by the Contractor.

The Project Manager shall inform the Contractor if the approval will take a longer period than fourteen (14) days. Unless the submittal is reviewed and approved by the Project Manager, work involving relevant products or materials may not proceed.

The Project Manager's review will be signified by comments as required identifying items for resubmission and by stamp of the Project Manager when work is released for distribution. The Contractor's contractual responsibility shall not be relieved by the Project Manager's review of submittals.

Samples and/or brochures and manufacturer's specifications for all construction materials to be used in the construction of the latrines shall be submitted to the Project Manager for his approval prior to the works commencing.

The quality of the materials shall be as follows:

### 2.1. Cement

The cement to be used for the concrete work shall be Ordinary Portland Cement (Type II) to BS 12: 1971 or ASTM C 150-97.

All cement for masonry and plastering shall be **Portland Cement-ASTM.C150 TYPE I**. No other type of cement shall be used unless the Contractor has specified an equivalent alternative at the time of bidding and it has been approved in writing by the Engineer. It shall be the Builder's responsibility to provide technical documentation with his bid supporting any request to use an alternative type of cement.

### 2.2. Steel Reinforcement

Steel reinforcement bar shall be Grade 300 (Yield Strength 235 N/mm<sup>2</sup>) round steel bar and sizes, dimensions and weight of the bars shall conform to the requirements of ASTM, or equivalent.

All steel reinforcement shall be clean and free of scale, oil, dirt, pits or deformities.

The steel used in the reinforced concrete shall be in accordance with ASTM A615. The grade of steel reinforcement shall be defined in N/mm<sup>2</sup> as specified in the Drawings. Manufacturer's test certificate shall be submitted to the Engineer for his approval. The Engineer may instruct the Builder to carry out additional test if required.

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All steel reinforcement bar and tie wires used in the production of reinforced concrete shall be new, clean and free of grease and rust. Steel bars that split when bent shall be rejected. Steel reinforcement bars that are larger in size than 10mm shall be "deformed bar" type of reinforcement. These bigger bars shall not be a smooth round bar but shall have a braised surface. Steel reinforcement shall be strongly tied together and into position so that the steel is not moved when the concrete mix is being vibrated.

The standard weight per meter that shall be applied for the various bar are as follow:

Ø6mm 0.222kg	Ø12mm 0.888kg
Ø8mm 0.395kg	Ø14mm 1.208kg
Ø10mm 0.617kg	Ø16mm 1.578kg

Reinforcement accessories consisting of spacers, chairs, ties and pre-cast concrete blocks shall be provided for placing the reinforcement and securing specified concrete cover of the reinforcement.

Cutting and bending shall be performed at a central location equipped and suitable for that activity. Bars shall be accurately cut and bent as indicated on the shop drawing. Bars shall be bent cold. Heating of bars for bending or straightening will not be allowed.

Reinforcement bars shall be placed in accordance with the drawings provided. The bars shall be supported on metal chairs or spacers or on pre cast concrete blocks with a minimum dimension of 38mm by 38mm. The spacers will be securely tied to the reinforcement in place with spacing of maximum 500 X 500 mm in case of slabs and minimum 2 blocks per meter run of beam and column. Hoops and stirrups shall be accurately spaced and wired to the reinforcement. No wood will be allowed inside the form.

Reinforcement shall be put in place and rigidly tied or wired with steel tie wire at all splices and crossing points and intersection. Point ends of wire ties shall always be away from formwork. Laps of splices shall be adequate to transfer stress by bond. Bars lap a minimum of 40 times the applied diameter. Whenever possible, splices of adjacent bars shall be staggered by a minimum of lap length. Concrete coverage for steel reinforcement shall be of 50mm.

### **2.3. Water**

Water used for **mixing of concrete** or mortar shall be clean and free from oil, acid, alkali, organic matter or other deleterious substances and shall have a Total Dissolved Salts content of less than 2000 mg/l TDS. Mix water shall not be taken from reducing environments, such as swamps, wetland or from lakes.

### **2.4. Aggregates and Sand**

The aggregates shall be appropriate for concrete use as follows:

- Unless otherwise specified, aggregate shall be complied with ASTM C33. Aggregate for concrete and mortar shall be hard and dense and free from earth, clay, shale or decomposed stone, organic matter and other impurities.
- Coarse aggregates for concrete work: Appropriate in grain-size distribution with maximum size of 20 to 25 mm.
- Sand for concrete work: Sand with silt content of maximum 3% and shall number 3 in grain size. River sand is preferred. Maritime sand shall not be used.

- Sand for masonry work: Sand used for producing concrete shall be well-graded, clean, sharp sand. The range of sand particle sizes shall be from 1mm to 5mm. The sand shall not contain any clay particles or organic material.

## 2.5. Steel Structure

Toilet frame structure is made from steel tube, column section is 50mm x 50mm cross section x 1.5mm thickness, roof rafter is 20mm x 40mm cross section x 1.2mm thickness, roof purlin is 20mm x 20mm cross section x 1.2mm thickness, wall rafter 20mm x 40mm cross section x 1.2mm thickness, and door frame is 20mm x 20mm cross section x 1.2mm thickness. All steel shall be new, clean and free of grease and rust. Steel members shall be cut on site and welded together to construct the latrine frame.

Steel works will be protected from corrosion by an anti-rust painting after cleaning, prior to erection and finish painting. The rust proofing coating shall consist of red-oxide primer installed in accordance to manufacturer's specifications. Only properly canned pain from a known manufacturer shall be accepted. If any solvent is required, only recommended solvent by the paint manufacturer shall be used. The use of petrol as solvent shall result in rejection of all paint work, removal and repainting. Surface preparation shall include degreasing using petrol or other solvent, removal of dust scaling using power tools and removal of all other foreign matters. The sand blasting of steel shall be imposed on structural steel work. The painting shall be under taken within 20mintues of sand blasting or rust removal. In structural works, where members are to be assembled and become un-accessible during assembly, all faces that shall become hidden shall be painted prior to assembly.

Anti-corrosion paint: Maestria

1 coat of Ferrosotes

2 coats of Ikarlac

## 2.6. Concrete Mix

The concrete used for the latrine shall consist of Ordinary Portland Cement, water and aggregate, and admixture, if necessary. The admixture shall be selected depending on the natural conditions at the site, and the tentative mixture will be made as below. The trial mix shall be conducted to obtain the actual mixture for the intended design strength of concrete. Having confirmed the concrete strength, the contractor shall submit the mixture to Project manager for approval. Afterward, the contractor shall use the approved mixture for the construction. The Engineer has right to reject the works if low quality of concrete had been used and the contractor will re-do the works with his own cost to the satisfaction of the Engineer.

When required by the Engineer the Contractor shall carry out tests of the total chloride content of the concrete mix. The total alkali content shall not exceed 3.0 kg/m<sup>3</sup> of the concrete. Use of aggregate that contain potentially alkali shall not be permitted.

**Table 1 – Tentative Concrete mix proportions (Grade 25 Concrete)**

Item	Unit	Mix by volume	Quantities per cum of mix	Approximate Quantities per 50 kg of bag of cement
Cement	kg	1	350	1

Sand (Dry)	m <sup>3</sup>	2	0.50	0.071
10 mm x 20 mm aggregates (Dry)	m <sup>3</sup>	4	0.75	0.107
Water	Litre	-	210	32.4

Concrete shall be cured for a minimum of five (5) days by adequate curing method after pouring. After placing, the surface of concrete shall be covered with mats or others and shall be kept wet for at least 5 days. The placed concrete shall be protected against external loads, impact and other harmful factors for 10 days.

### Rate of sampling

The sampling of works concrete shall be at the average rate of one sample for every 20m<sup>3</sup> concrete placed. If, for any reason the Engineer is not satisfied with the works concrete, he may instruct the contractor to further increase the rate of sampling. The samples shall be taken at the point of discharge of the mixer or in the case of ready mixed concrete at the point of discharge from the vehicle or the point of casting as directed by the Engineer. At least one set of sample shall be taken from each individual placement of concrete. For reinforced concrete 6 cubes shall be made from each sample of concrete taken, 3 cubes for testing after 28 days.

### 2.7. Lean Concrete Mix

**Table 2 – Tentative Lean Concrete mix proportions (Grade 15 Concrete)**

Item	Unit	Mix by volume	Quantities per cum of mix	Approximate Quantities per 50 kg of bag of cement
Cement	Kg	1	210	1
Sand (Dry)	m <sup>3</sup>	3	0.56	0.13
10 mm x 20 mm aggregate (Dry)	m <sup>3</sup>	6	0.78	0.18
Water	Litre	-	126	30

### 2.8. Mortar

- For general masonry work: The mix ratio of the mortar shall be (1:4) in volume or 1 part of cement for 4 parts of sand with a minimum cement content of 400kg/m<sup>3</sup>. Sand for cement mortar shall not have particles of clay.
- For masonry in foundation or exposed to water: Mix volume (1:3) 1 part of cement with 3 parts of sand with a minimum cement content of 500kg/m<sup>3</sup>. The cement shall preferably be mixed cement type for masonry work or Portland type 1 cement added 20% of lime. Fine will be clean and void of saline or other destructive minerals and organic matters.

Mortars shall be mixed dry in the specified proportions until uniform colour is obtained. Approved water shall then be mixed sparingly. The water cement ratio shall never exceed 0.5 by weight, unless indicated otherwise by the supervisor. Mortars shall be mixed in such quantities that it can be used within 30 minutes after adding the water in the mix. Mortar that is taken initial set shall not be used, nor shall it be re-mixed with fresh mortar and shall be discarded. Mixing time shall not be less than 5 minutes. Hand mixing will only be allowed on a clean surface and with express permission of the supervisor.

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## 2.9. Ceramic pour flush toilet pan

Ceramic water pour flush toilet pans shall be of the highest quality, complete with places for feet with ribbed section, white in colour, glazed and of the following minimum external dimensions:

Length:	500mm
Width:	400mm
Depth from top of pan to underside of water seal:	400mm
Minimum water seal depth:	30mm

The toilet pan shall be securely bedded and sealed on to the concrete slab with cement mortar (cement 1: sand 3).

## 2.10. PVC pipes:

U-PVC wastewater pipe and ventilation pipes and fittings shall be of pressure rating 8.5 bars and meet ASTM Standard D 2665.

## 2.11. Compaction:

All soil compaction shall be done in layers not exceeding 200mm thickness.

## 2.12. Bricks

Bricks shall be made of burnt clay and be of first quality in strength and appearance. They shall be free from saline deposit, be thoroughly oven or kiln baked without being vitrified, of uniform colour, regular size, form and texture with sharp square edges and parallel faces. Any bricks that are soft, porous or not completely oven dried shall be rejected. Bricks shall be regular in shape and of size 90mmx90mmx190mm for the hollow brick and 45mmx90mmx190mm for the solid brick. All bricks shall be soaked thoroughly before being placed in the brickwork. If any area of brickwork is found to contain poor quality bricks, the area shall be identified, the portion of brickwork demolished and replaced by the Builder.

## 2.13. Latrine Wall

Latrine wall shall be made from 100mm brick wall with 600mm height and steel frame with zinc panel outside until roof as shown in approved shop drawing. All steel section shall be new, clean and free of grease and rust.

## 2.14. Floor tiling

Glazed ceramic tiles shall be 300 X 300mm for the floor. Tiles on the floor shall be not slipping. Tiles shall be square and plane. The glazed surface shall be free of defects such as air bubbles, chips or cracks. Unless specified otherwise in the drawings, glazed ceramic tiles shall be white. Tiles shall be installed in true plane using liquid cement bedding. The laying pattern shall be such that cutting of tiles is minimized. Tile joints shall be 2mm wide and straight: vertical and horizontal protruding shall be made with bevelled full size tiles. The exposed tile edges shall not be allowed. Excess bedding material in tile joints shall be removed before final setting.

## 2.15. Plumbing

### *Squatting pan*

Squatting pan shall be white ceramic type of pan karat type or equivalent. The pan shall have a water-seal "S" trap and be suitable for connection to a diam 100m pipe. The pan shall be installed using white cement.

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### **3) SPECIFICATIONS FOR LOW COST WATER FILTER**

The Contractor shall supply and install the low-cost household ceramic water filter. The ceramic water filter shall be Tunsai (Rabbit) ceramic water purify or equivalent which is manufactured by locally sourced clay and rice husk are processed then mixed with water, pressed into the filter shape, fired to a ceramic state, flow rate tasted to ensure production consistency and coated with silver nitrate solution. The household filter is a two-bucket system. Water is poured into the top container, filters through the filter into a safe storage container. There is a tap for dispensing treated water. The water filter shall be approved by the Engineer and the Client before supply and installation at beneficiary households.

### **4) SPECIFICATIONS FOR CONCRETE WATER CONTAINER**

The contractor shall construct the concrete water container using cement and sand with appropriate mould to shape the jar. All materials shall be tested as latrine construction's material. Before using the concrete jar, there shall be put some water into the jar for two to three days.

**KINGDOM OF CAMBODIA**  
**NATIONAL RELIGION KING**

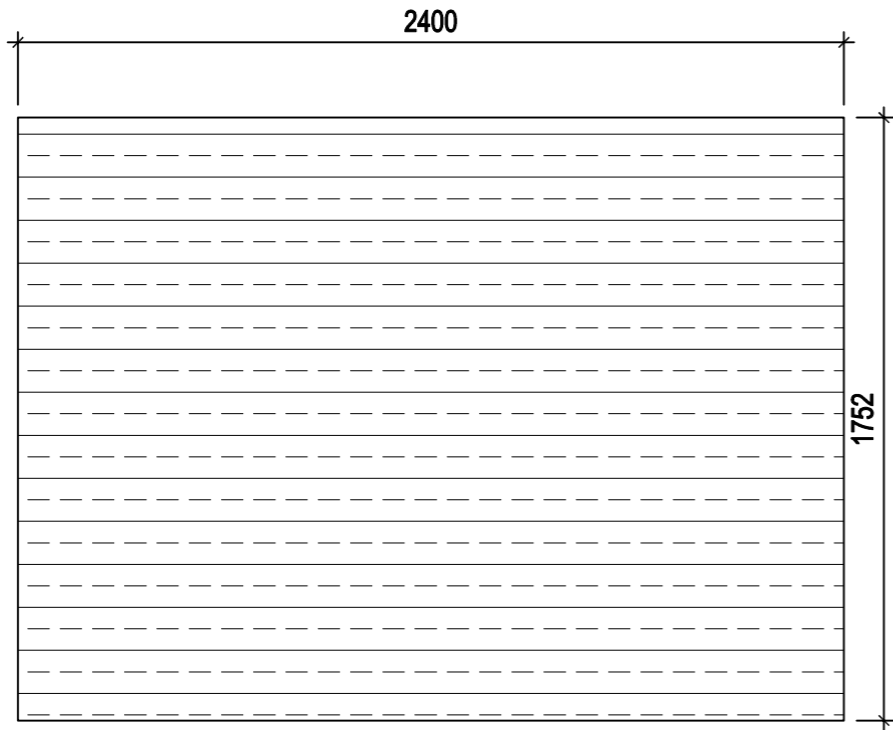


**MINISTRY OF PUBLIC WORKS AND TRANSPORT**

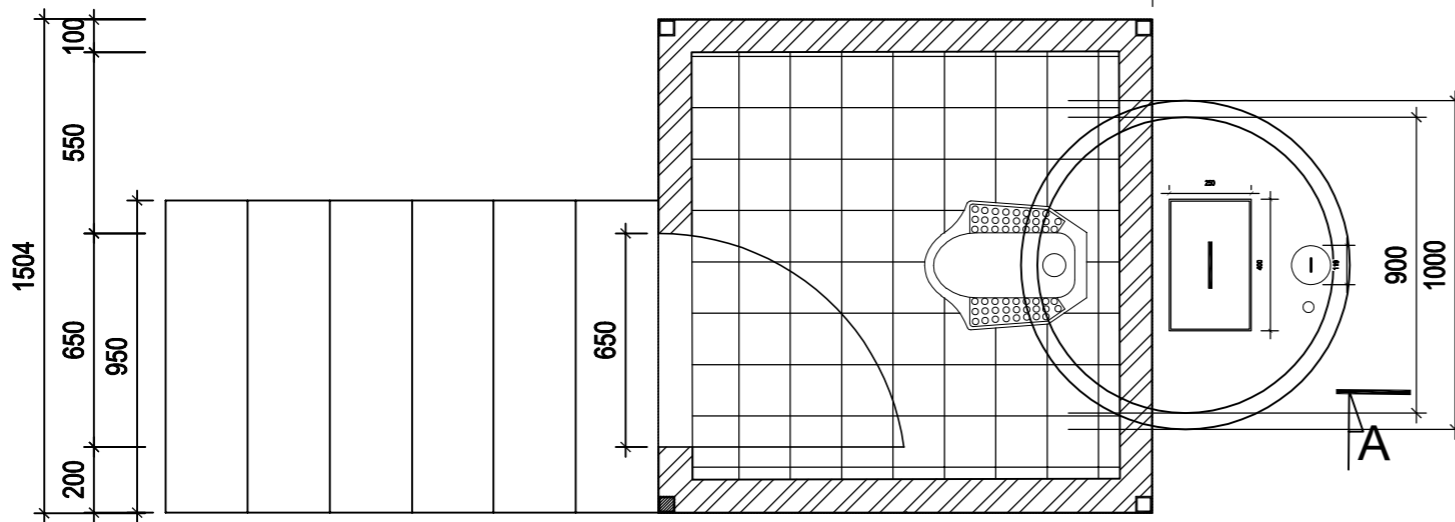
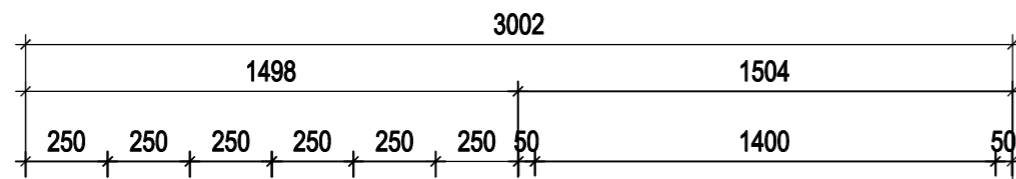
**PROJECT: INTEGRATED URBAN  
ENVIRONMENTAL MANAGEMENT IN  
THE TONLE SAP BASIN (IUEMTSB)  
ADB LOAN No.3311-CAM (SF)**

**SECTION VI**  
**VOLUME II: DESIGNED DRAWINGS**  
**CONSTRUCTION OF HOUSEHOLD LATRINE**  
**(VIP), WATER STORAGE CONTAINER**  
**(CONCRETE), ROOF WATER HARVESTING**  
**SUPPORT**

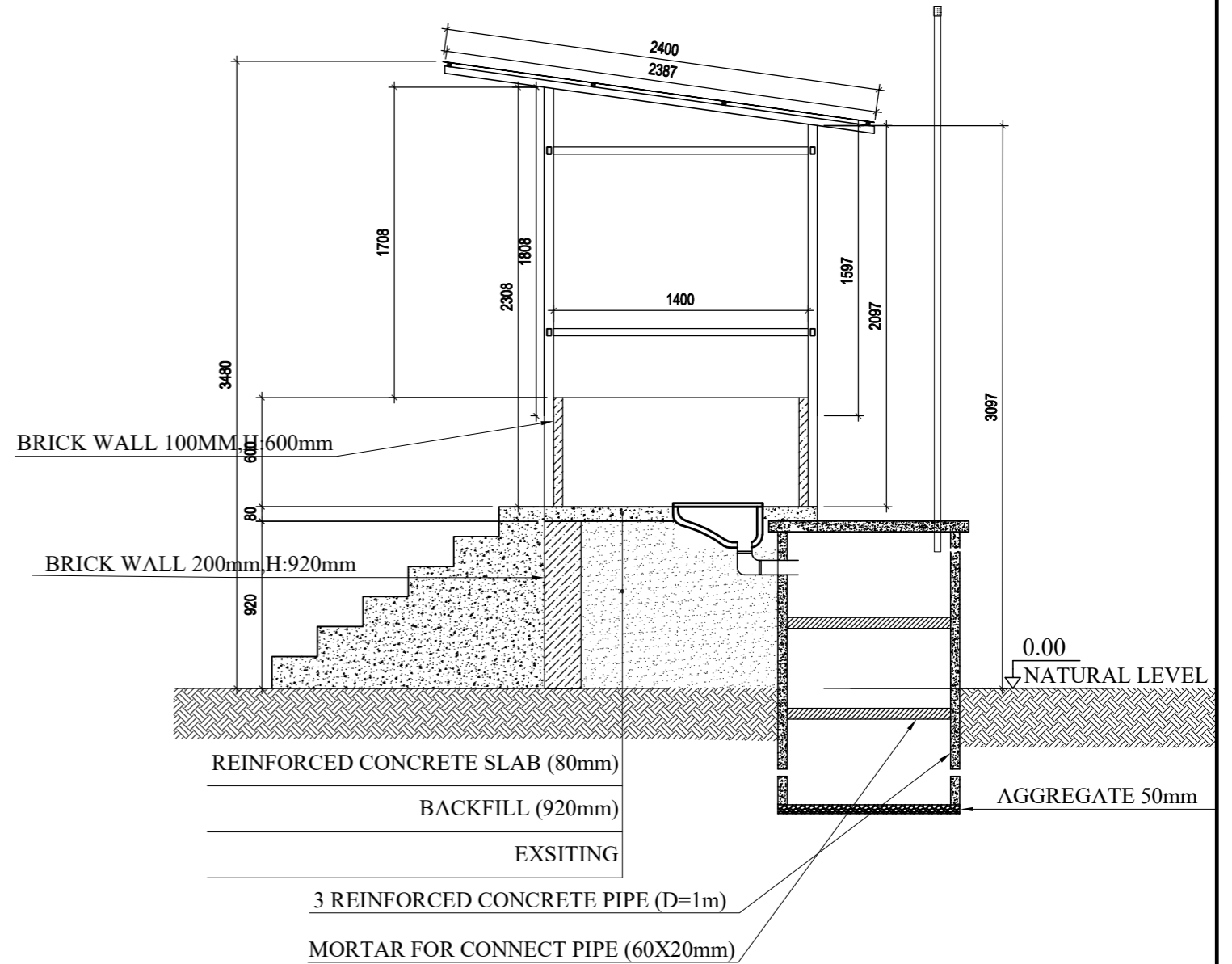
*July 2020*



**ROOF PLAN VIEW**



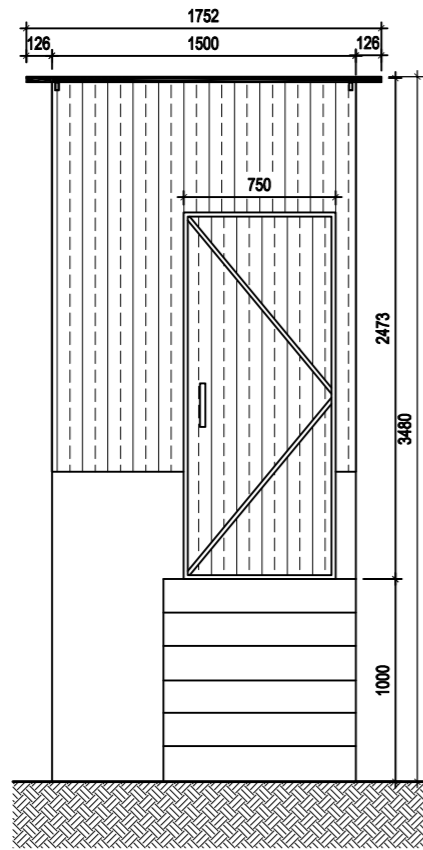
**PLAN VIEW**



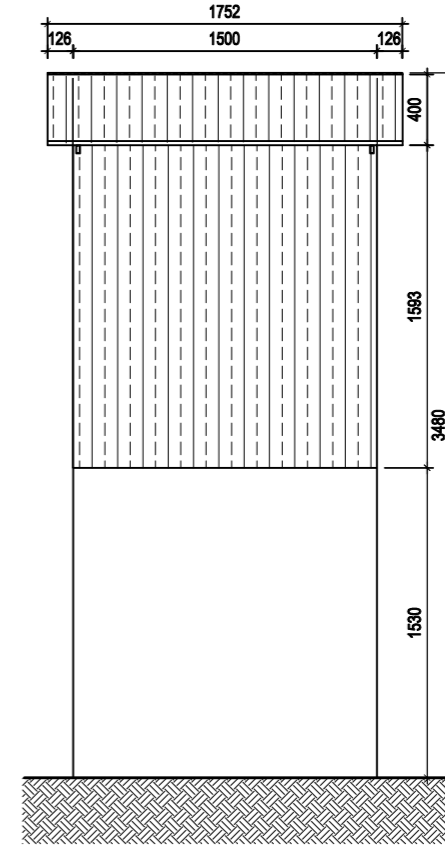
**SECTION A-A PLAN VIEW**

- NOTES:
- 1- LOCATION OF SEPTIC TANK SHALL BE ADJUSTED BASED ON ACTUAL SITE CONDITION
  - 2- ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED
  - 3- CONCRETE CLASS SHALL BE  
LEAN CONCRETE 15MPa  
STRUCTURE PART 25MPa
  - 4- CLEAR COVER TO REINFORCEMENT SHALL BE CAST AGAINST GROUND 50mm AND AIR FACE 25mm
  - 5- ALL REINFORCEMENT TO BE HOT ROLLED GRADE 400 DEFORMED BAR TO AASHTO M31-M-86
  - 6- MINIMUM REINFORCEMENT LAP TO BE 30 BAR DIAMETERS
  - 7- LOCATION OF LAP TO BE APPROVED BY ENGINEER.
  - 8- INSTALL BRICK WALL 20 FROM NATURAL LEVEL 0.5 TO 1.5M

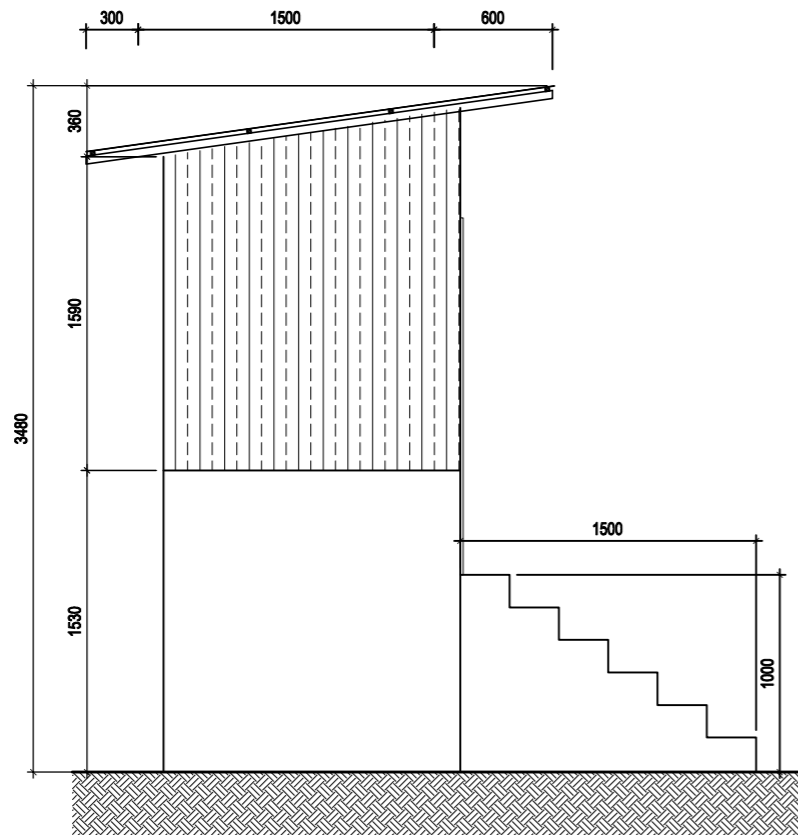
	DRAWN BY:	VETH VOEUN		SUBMITTED BY:	DIPANKAR CHYAU PATNAIK	REV.	DESCRIPTION	DATE	PROJECT: <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF)	SCALE: AS SHOWN
	DESIGNED BY:	VETH VOEUN		SUBMITTED BY:	VONG PISITH PROJECT DIRECTOR	1				
	CHECKED BY:	DIPANKAR CHYAU PATNAIK		DATE:		2				
						3				
						4				
						5			DRAWING TITLE: <i>HOUSEHOLD LATRINE (VIP) PLAN</i>	DRAWING NO. 01



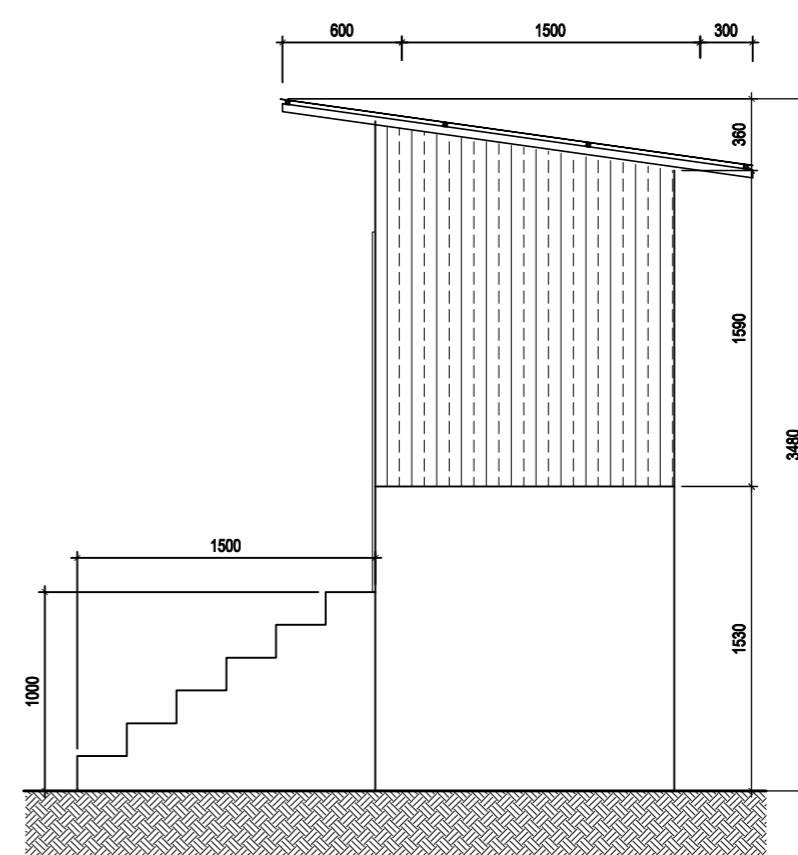
**FRONT PLAN VIEW**



**BACK PLAN VIEW**



**LEFT PLAN VIEW**



**RIGHT PLAN VIEW**

<b>DRAWN BY:</b>	VETH VOEUN
<b>DESIGNED BY:</b>	VETH VOEUN
<b>CHECKED BY:</b>	DIPANKAR CHYAU PATNAIK



**KINGDOM OF CAMBODIA**  
**MINISTRY OF PUBLIC WORKS AND TRANSPORT**

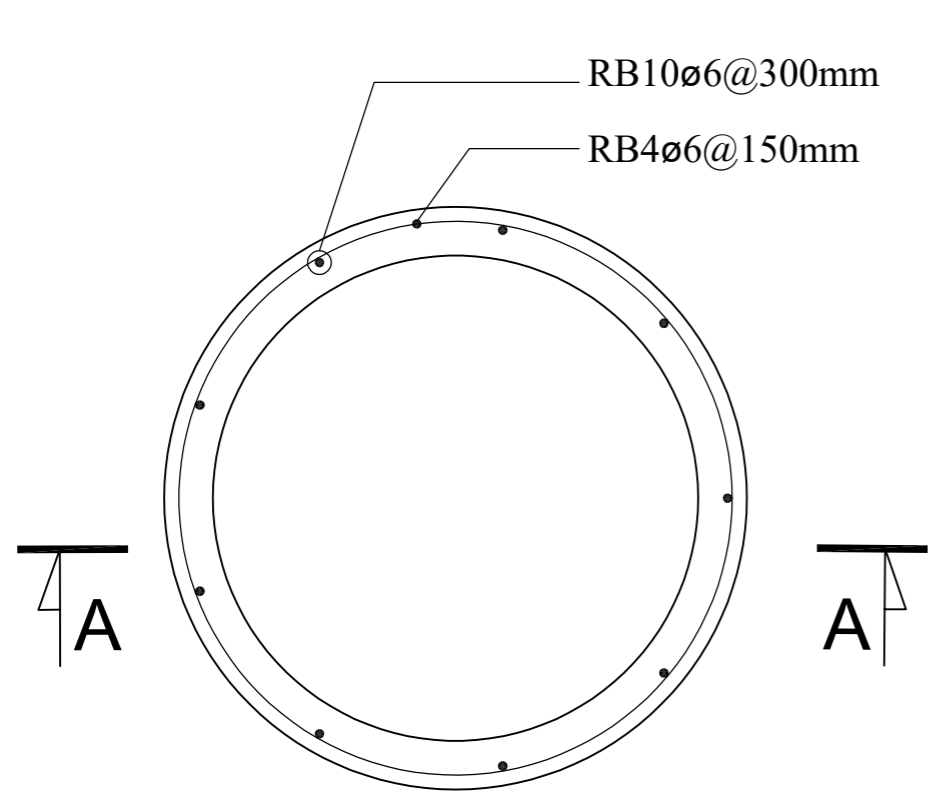
<b>SUBMITTED BY:</b>	DIPANKAR CHYAU PATNAIK
<b>SUBMITTED BY:</b>	VONG PISITH PROJECT DIRECTOR
<b>DATE:</b>	

REV.	DESCRIPTION	DATE
1		
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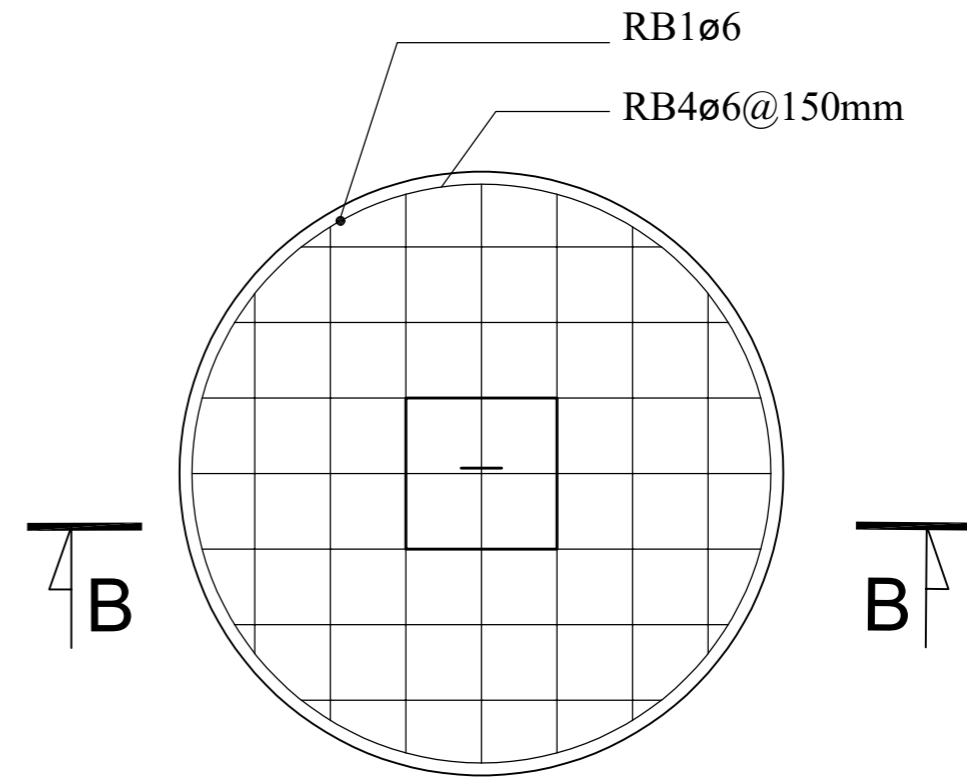
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<b>DRAWING TITLE:</b>	HOUSEHOLD LATRINE (VIP) ELEVATION

<b>SCALE:</b>	AS SHOWN
<b>DRAWING NO.</b>	02

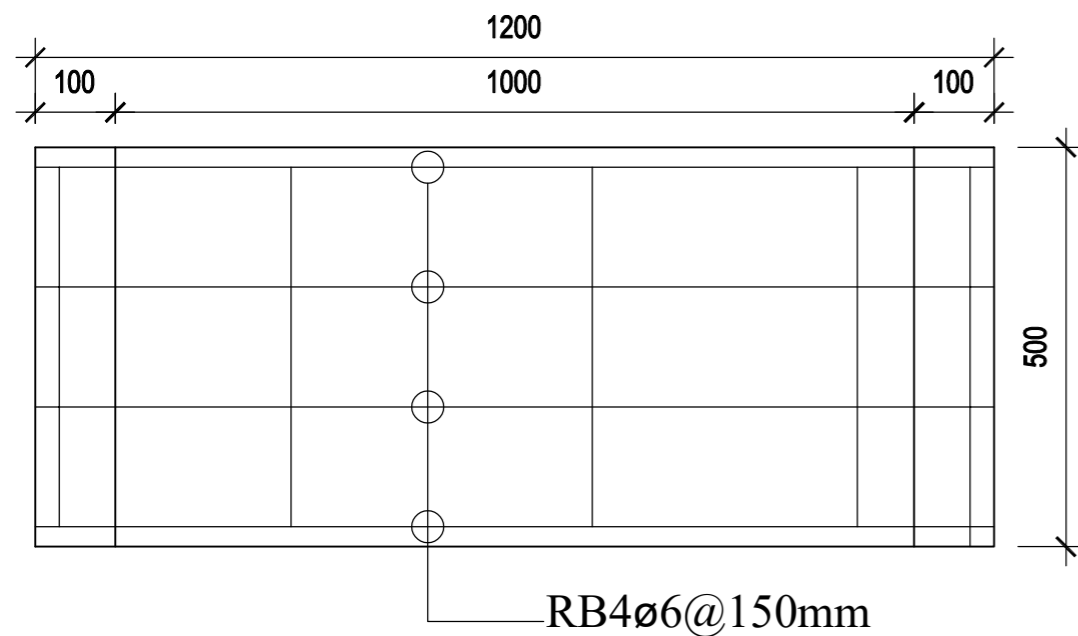
# DETAIL REINFORCEMENT FOR RC PIPE AND COVER



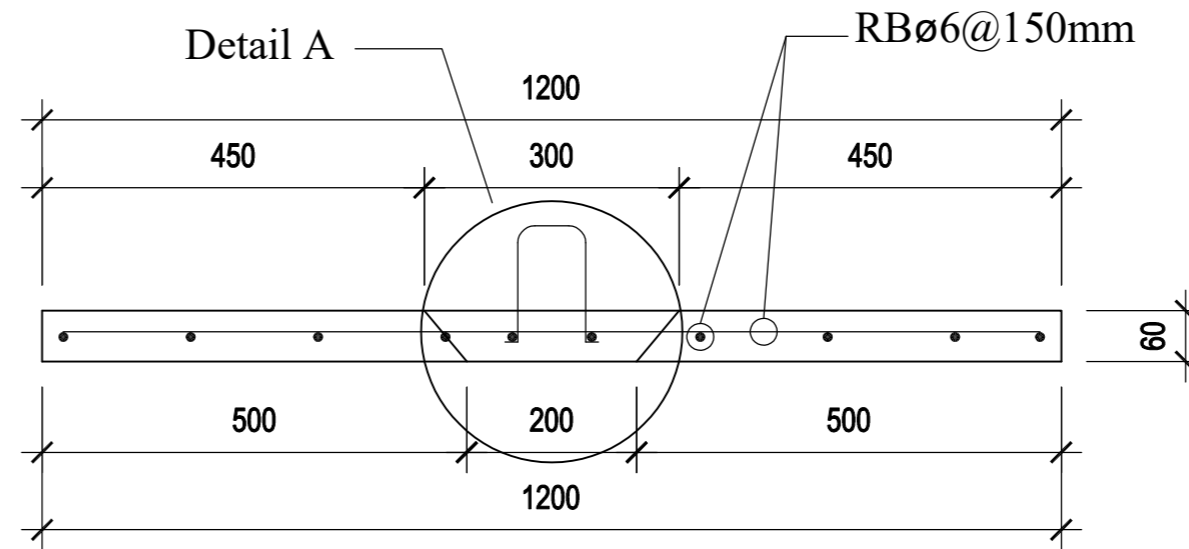
CONCRETE RING



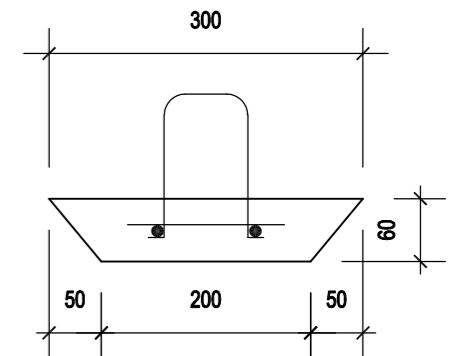
CONCRETE COVER



SECTION A-A PLAN VIEW

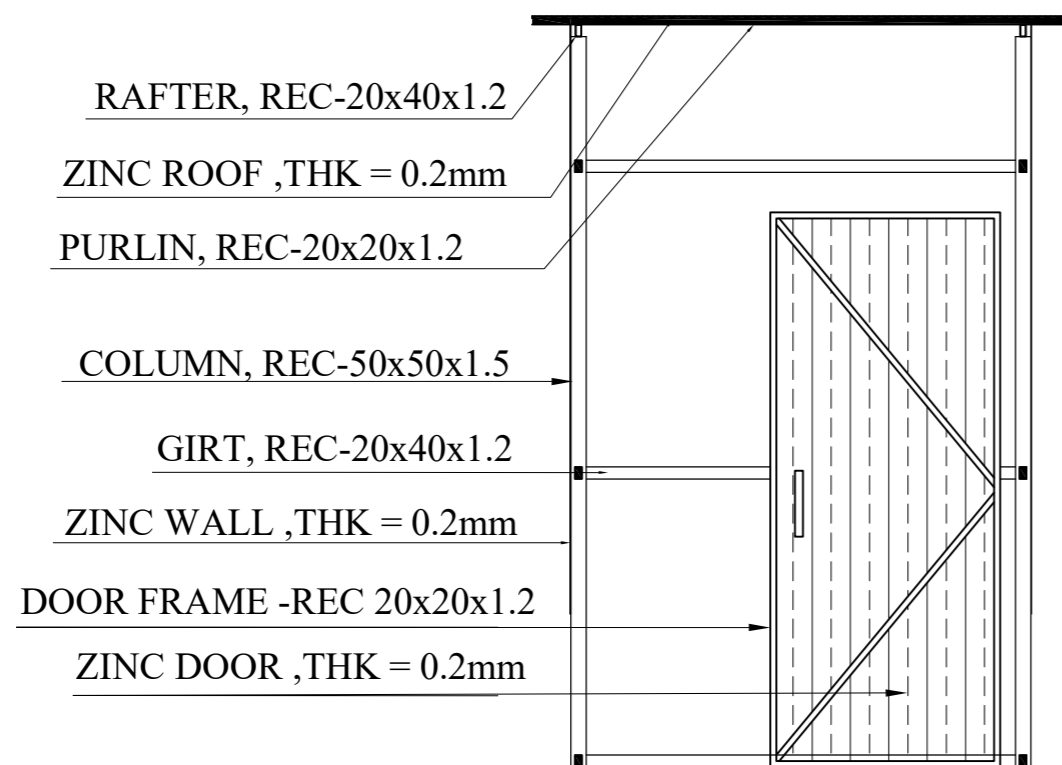
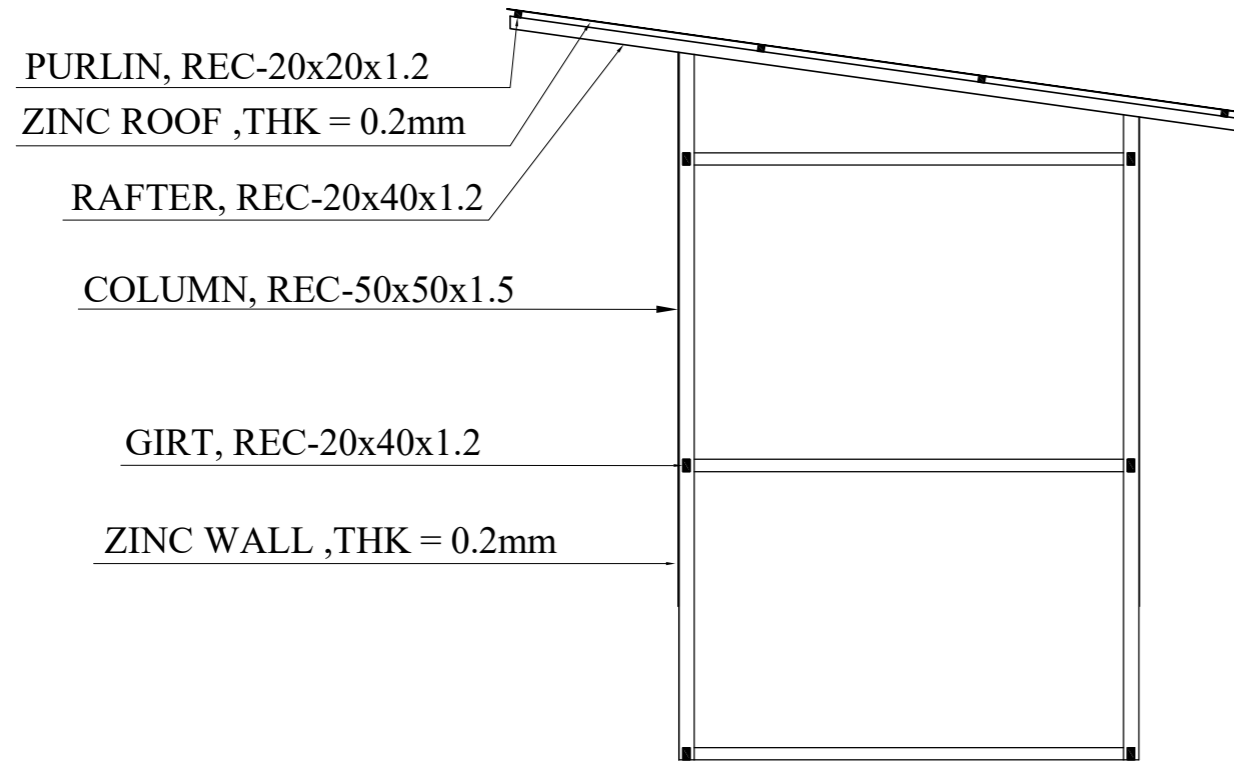


SECTION B-B PLAN VIEW

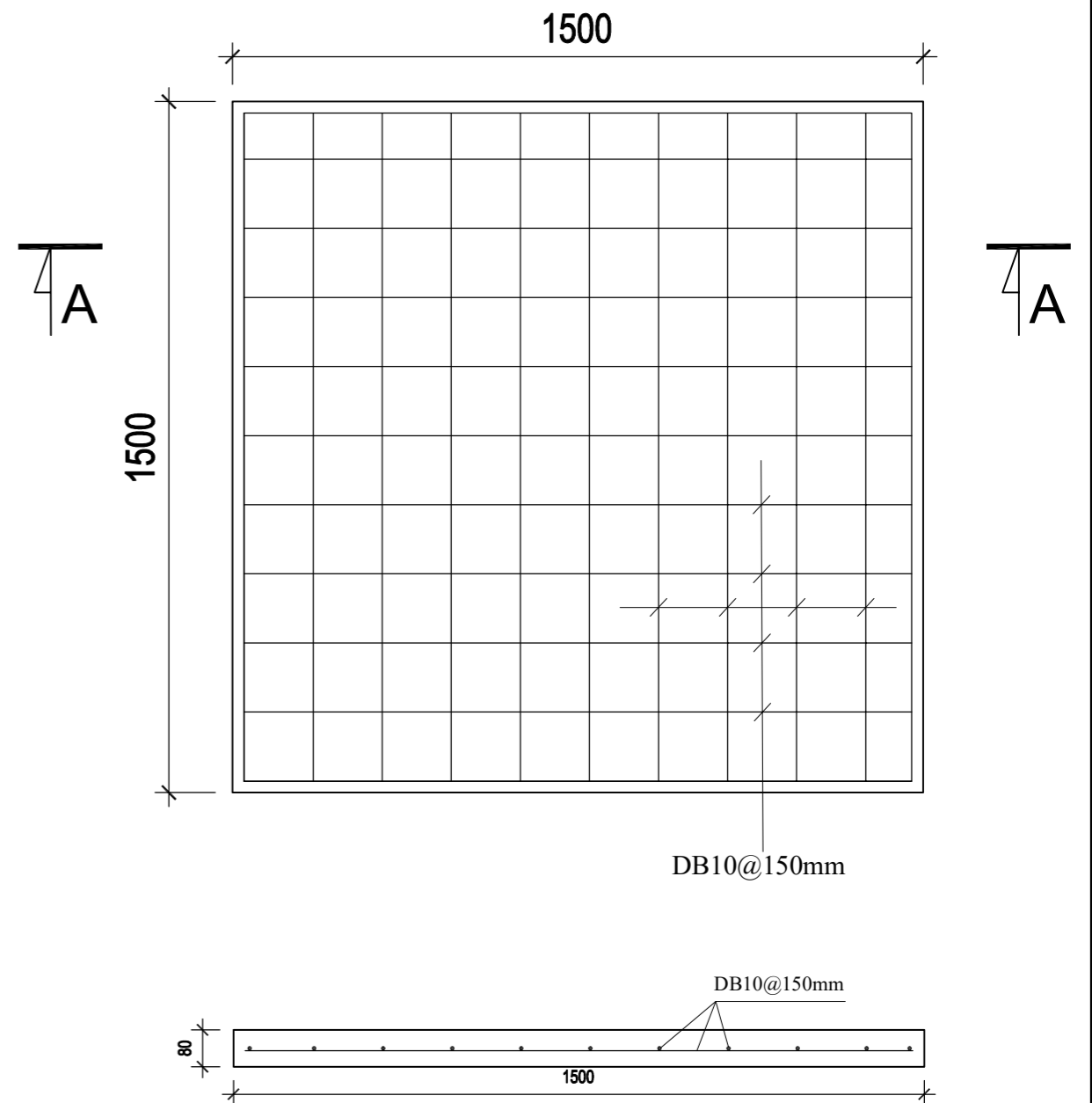


DETAIL A

	DRAWN BY:	VETH VOEUN		SUBMITTED BY:	DIPANKAR CHYAU PATNAIK	REV.	DESCRIPTION	DATE	PROJECT: <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF)	SCALE:	AS SHOWN		
	DESIGNED BY:	VETH VOEUN		SUBMITTED BY:	VONG PISITH	1					DRAWING TITLE: HOUSEHOLD LATRINE (VIP)	DRAWING NO.	
	CHECKED BY:	DIPANKAR CHYAU PATNAIK		PROJECT DIRECTOR	2						PIPE SECTION		
					3								
					4								
			5								04		



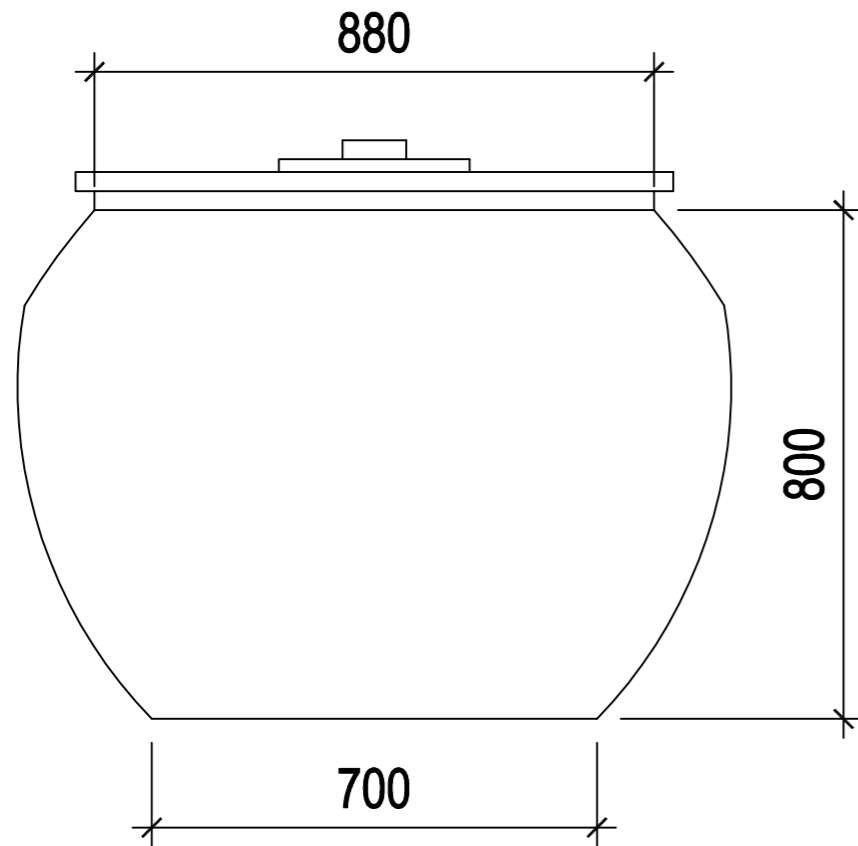
**DETAIL STEEL STRUCTURE FRAME**



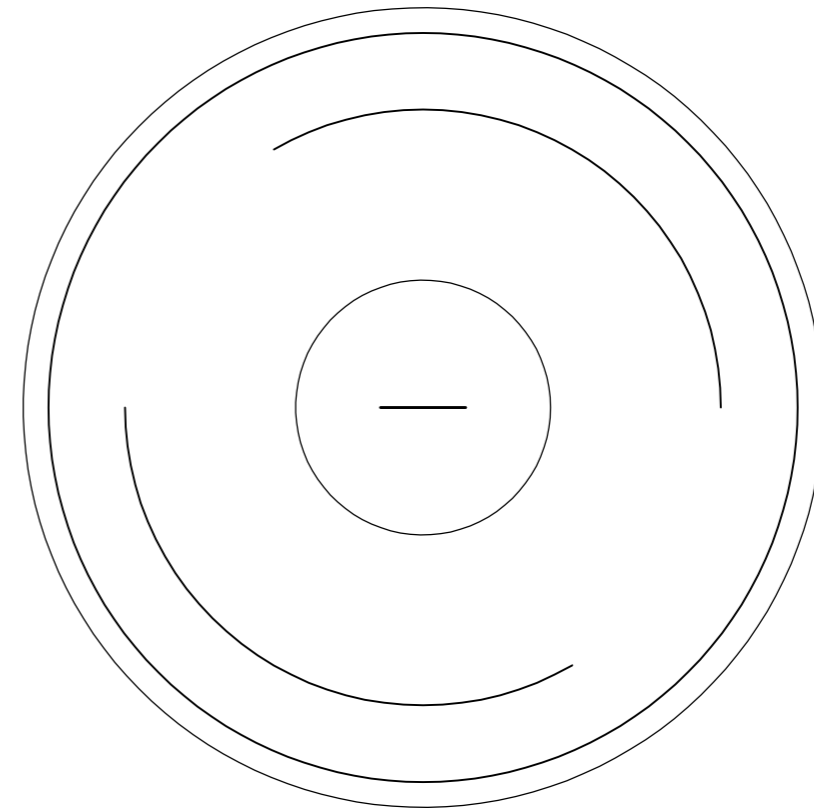
**DETAIL REINFORCED CONCRETE SLAB**

	DRAWN BY:	VETH VOEUN	<p>KINGDOM OF CAMBODIA          MINISTRY OF PUBLIC WORKS AND TRANSPORT</p>	SUBMITTED BY:	DIPANKAR CHYAU PATNAIK	REV.	DESCRIPTION	DATE	PROJECT: <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF) DRAWING TITLE: <i>HOUSEHOLD LATRINE (VIP) SECTION</i>	SCALE:	AS SHOWN
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# WATER STORAGE CONTAINER (CONCRETE)



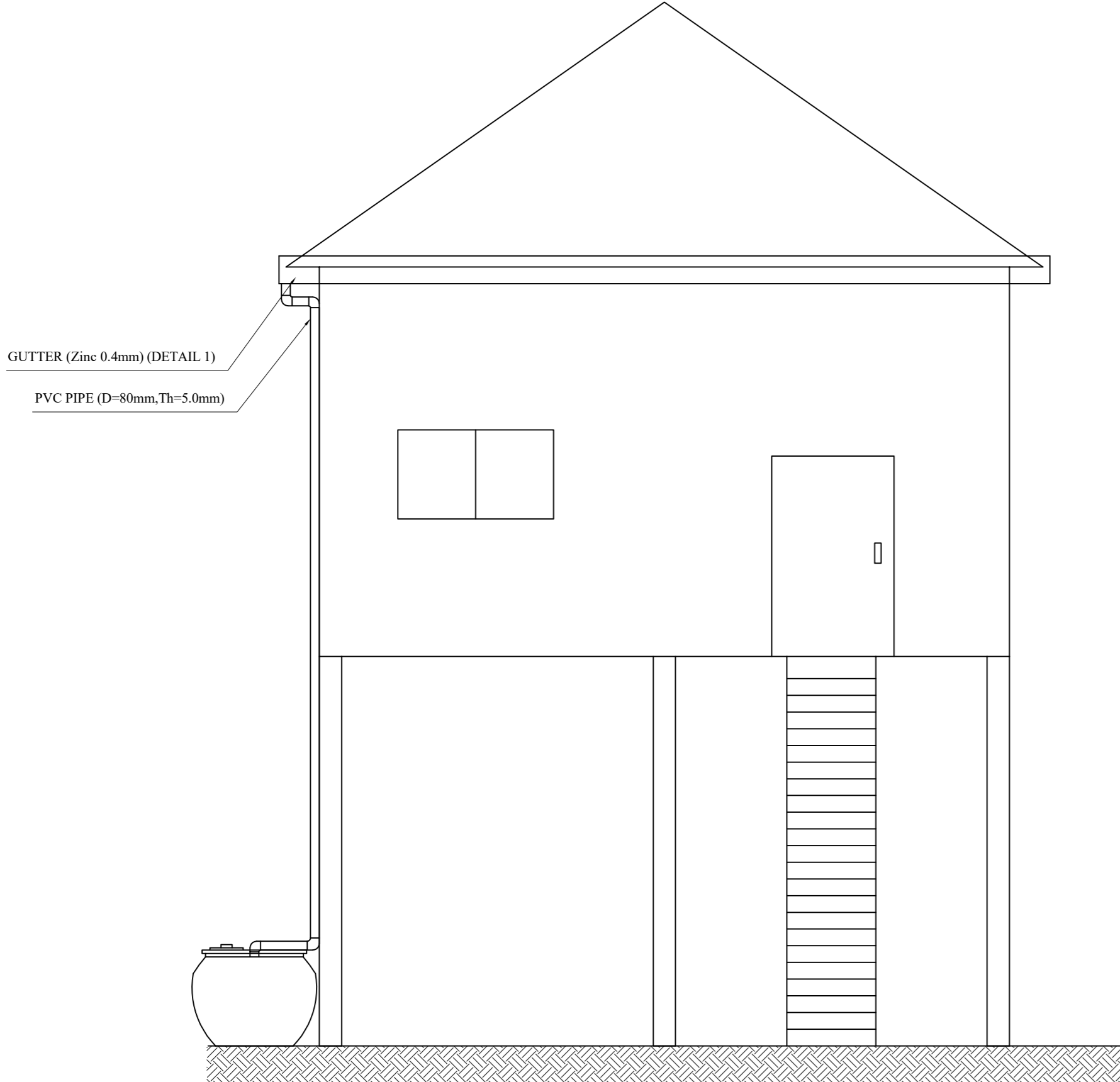
ELEVATION PLAN VIEW



TOP PLAN VIEW

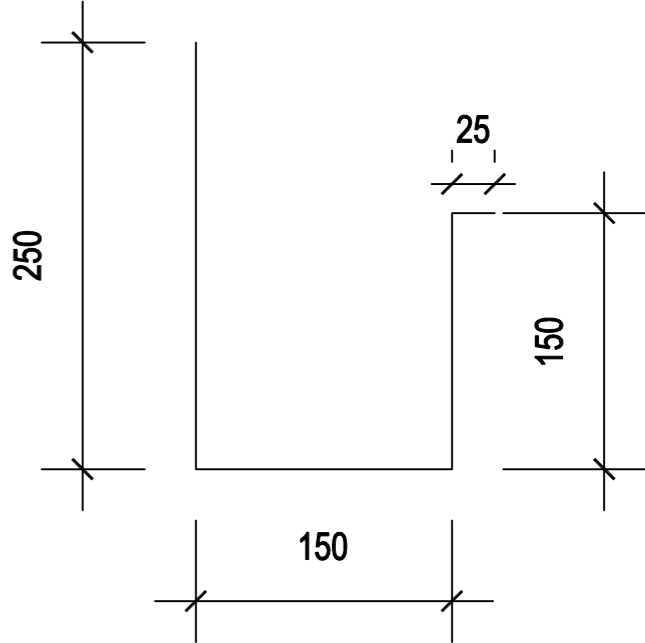
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	<b>DESIGNED BY:</b>	VETH VOEUN		<b>SUBMITTED BY:</b>	1				<b>AS SHOWN</b>	
	<b>CHECKED BY:</b>	DIPANKAR CHYAU PATNAIK		<b>SUBMITTED BY:</b>	2				<b>DRAWING TITLE:</b> WATER STORAGE CONTAINER (CONCRETE)	<b>DRAWING NO.</b>
				<b>PROJECT DIRECTOR</b>	3					
				<b>DATE:</b>	4					
			5			01				

HOUSEHOLD ROOF WATER HARVESING SUPPORT



GUTTER (Zinc 0.4mm) (DETAIL 1)

PVC PIPE (D=80mm,Th=5.0mm)



DETAIL 1

	<b>DRAWN BY:</b>	VETH VOEUN		<b>SUBMITTED BY:</b>	DIPANKAR CHYAU PATNAIK	<b>REV.</b>	<b>DESCRIPTION</b>	<b>DATE</b>	<b>PROJECT:</b> <i>Integrated Urban Environment Management in the Tonle Sap Basin Project</i> ADB Grant: 0454-CAM(SCF)	<b>SCALE:</b> AS SHOWN
	<b>DESIGNED BY:</b>	VETH VOEUN		<b>SUBMITTED BY:</b>	VONG PISITH	1				
	<b>CHECKED BY:</b>	DIPANKAR CHYAU PATNAIK		<b>PROJECT DIRECTOR</b>		2				
				<b>DATE:</b>		3				
						4				
						5			<b>DRAWING TITLE:</b> HOUSEHOLD ROOF WATER HARVESING SUPPORT	<b>DRAWING NO.</b> 01

**DEPARTMENT OF PUBLIC WORK AND TRANSPORTATION-CMEI PROJECT  
SUMMARY OF BILL OF QUANTITY**

<b>Items</b>	<b>Description</b>	<b>Amount, (USD)</b>
Bill No.1	<b>Household Latrines (VIP)</b>	<b>90,642.80</b>
Bill No.2	<b>Household Water Filters</b>	<b>4,860.00</b>
Bill No.3	<b>Water Storage Containers (Concrete)</b>	<b>11,800.00</b>
Bill No.4	<b>Household Roof Water Harvesting Support</b>	<b>9,856.00</b>
	<b>Total Summary of Bill</b>	<b>117,158.80</b>
	<b>Contingency -10%</b>	<b>12,500.00</b>
	<b>Total Cost Estimate of Lot 01- Sanitation - CMEI Project</b>	<b>129,658.80</b>

S.N	ID	Consolidated Beneficiary List Remarks	Time	Geometry	Latitude	Longitude	Elevation	Fix ID	Poverty Category	Name head household	Nationality	Age	Gender	Physically Challenged	Employment	Family Size	Male	Female	Infant and Young Children (0-4)	Children (5-16)	Disabled person	Land Tenure	House Ownership	House Construction Materials	House Condition	House Foundation	House Area (m <sup>2</sup> )	Plot Area (m <sup>2</sup> )	Flooding Frequency	Flood Levels	Flood Duration	Drinking Water Supply (other than rain water)
1	Toul Makak	005 Ngeit SokhounToul Makak	05/10/2020 16:09:12.000 GMT+07:00	POINT Z (103.95846119863637 12.494684230454544 3.7727272727273)	12.49468423	103.9584612	3.772727273		1 IDPoor 2	Ngeit Khmer/Pin Saroun	Khmer	60	Female	No	Day Labour	7	3	4	0	0	0	Hard Title	Own House	Corrugated metal sheet	Very poor condition	Ground Level	12	120	< one time per year	< 50 cm	1 to 7 days	Dug well
2	Toul Makak	002 CMEI Toul Makak Latrine List	05/10/2020 16:52:13.000 GMT+07:00	POINT Z (103.9582334549999 12.5236364249999 -16.25)	12.52363642	103.9582334	-16.25		1 IDPoor 1	LONG MOEUN	Khmer	58	Female	No	Government	4	2	2	0	0	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	900	< one time per year	< 50 cm	1 to 7 days	Open pond
3	Toul Makak	003 CMEI Toul Makak Latrine List	05/10/2020 17:19:24.000 GMT+07:00	POINT Z (103.95827519500001 12.522787072499999 -18.0)	12.52278707	103.9582751	-18.0		1 IDPoor 1	KANG MOEUL	Khmer	52	Female	No	Day Labour	1	1	1	0	0	0	No Title	Own House	Wood	Very poor condition	Ground Level	12	0	< one time per year	< 50 cm	1 to 7 days	Open pond
4	Toul Makak	004 CMEI Toul Makak Latrine List	05/10/2020 17:34:03.000 GMT+07:00	POINT Z (103.958255083 12.52279272400002 -13.0)	12.52279272	103.9582551	-13.0		1 IDPoor 1	KANG MORIN	Khmer	55	Female	No	Day Labour	1	0	1	0	0	0	Hard Title	Own House	Corrugated metal sheet	Very poor condition	Silts < 1 m	20	360	< one time per year	< 50 cm	1 to 7 days	Open pond
5	Toul Makak	005 CMEI Latrine Toul Makak List	05/12/2020 16:10:14.000 GMT+07:00	POINT Z (103.95416628050002 12.527663199499997 -1.35)	12.52766319	103.9541663	-1.35		1 IDPoor 2	SIM YOELIN	Khmer	70	Female	No	Day Labour	2	1	1	0	0	1	No Title	Own House	Corrugated metal sheet	Very poor condition	Silts < 1 m	12	0	< one time per year	50 to 100 cm	1 week to 4 weeks	Open pond
6	Toul Makak	006 CMEI Latrine Toul Makak List	05/12/2020 16:32:24.000 GMT+07:00	POINT Z (103.95423377300001 12.52765456190477 -4.0476190476190474)	12.52765457	103.9542337	-4.047619048		1 IDPoor 2	SIM BIN	Khmer	60	Female	No	Day Labour	6	3	3	1	2	3	No Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	0	< one time per year	50 to 100 cm	1 week to 4 weeks	Open pond
7	Toul Makak	007 CMEI Latrine Toul Makak List	05/12/2020 16:48:15.000 GMT+07:00	POINT Z (103.95423377300001 12.52765456190477 -3.95)	12.52765457	103.9542337	-3.95		1 IDPoor 2	SIM SENG	Khmer	61	Female	No	Day Labour	8	3	5	2	2	1	No Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	12	0	< one time per year	50 to 100 cm	1 to 7 days	Open pond
8	Toul Makak	008 CMEI Latrine Toul Makak List	05/12/2020 17:10:26.000 GMT+07:00	POINT Z (103.9541972029999 12.527361799500001 -6.0)	12.52736179	103.9541972	-6.0		1 IDPoor 2	SOA CHORN	Khmer	51	Male	No	Day Labour	10	7	3	2	1	1	No Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	0	< one time per year	50 to 100 cm	1 week to 4 weeks	Open pond
9	Toul Makak	009 CMEI Latrine Toul Makak List	05/12/2020 17:31:11.000 GMT+07:00	POINT Z (103.95406675749997 12.5274489249999 3.9375)	12.5274489	103.9540668	3.9375		1 IDPoor 1	SOUN SOKDOELIN	Khmer	41	Male	Yes	Day Labour	4	1	3	0	2	1	No Title	Own House	Corrugated metal sheet	Poor condition	Ground Level	12	0	< one time per year	50 to 100 cm	1 week to 4 weeks	Open pond
10	Toul Makak	010 CMEI Latrine Toul Makak List	05/14/2020 16:07:19.000 GMT+07:00	POINT Z (103.954754933 12.513899005 19.85)	12.513899	103.9547549	19.85		1 IDPoor 2	Ouch Nga/Hort Tonun	Khmer	38	Male	No	Day Labour	9	3	6	1	3	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	48	1080	< one time per year	50 to 100 cm	1 to 7 days	Open pond
11	Toul Makak	011 CMEI Latrine Toul Makak List	05/14/2020 16:51:01.000 GMT+07:00	POINT Z (103.95538094549997 12.51209744700002 3.0)	12.51209745	103.9553809	3.0		1 IDPoor 2	Phat Sophin	Khmer	38	Female	No	Day Labour	9	5	4	1	5	0	Hard Title	Own House	Corrugated metal sheet	Very poor condition	Ground Level	12	20	< one time per year	50 to 100 cm	1 to 7 days	Open pond
12	Toul Makak	012 CMEI Latrine Toul Makak List	05/14/2020 17:14:38.000 GMT+07:00	POINT Z (103.9548154684999 12.51236192 -8.6)	12.51236192	103.9548155	-8.6		1 IDPoor 2	Ouch Thorn	Khmer	60	Male	Yes	Day Labour	5	3	2	1	2	1	Hard Title	Own House	Corrugated metal sheet	No Data	Silts 1 to 2 m	20	500	< one time per year	50 to 100 cm	1 to 7 days	Open pond
13	Toul Makak	013 CMEI Latrine Toul Makak List	05/14/2020 17:43:16.000 GMT+07:00	POINT Z (103.9544047115 12.514173241500004 4.8)	12.51417324	103.9544047	4.8		1 IDPoor 2	SQUIN TH	Khmer	68	Male	No	Unemployed	5	2	3	2	0	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	1350	< one time per year	50 to 100 cm	1 to 7 days	Open pond
14	Toul Makak	014 CMEI Latrine Toul Makak List	05/19/2020 10:08:57.000 GMT+07:00	POINT Z (103.96265324238571 12.5273168666666 5.0)	12.52731687	103.9626523	5.0		1 IDPoor 2	KONG KRUY	Khmer	64	Female	No	Day Labour	8	5	3	1	2	0	Soft Title	Own House	Wood	No Data	Ground Level	12	1350	< one time per year	50 to 100 cm	No Data	Open pond
15	Toul Makak	015 CMEI Latrine Toul Makak List	05/19/2020 10:39:08.000 GMT+07:00	POINT Z (103.968987925 12.52742134166667 16.70833333333333)	12.52742134	103.9689898	16.70833333		1 IDPoor 2	SIENG MANN	Khmer	87	Female	No	Unemployed	1	0	1	0	0	0	No Title	Own House	Corrugated metal sheet	Poor condition	Silts < 1 m	12	0	< one time per year	< 50 cm	1 to 7 days	Open pond
16	Toul Makak	016 004 SOU CHOUNToul Makak Li	05/19/2020 11:17:23.000 GMT+07:00	POINT Z (103.96809895285712 12.489486530952382 4.0)	12.48948653	103.9680989	4.0		1 IDPoor 2	SOUN CHOUN	Khmer	61	Male	Yes	Day Labour	3	1	2	0	0	1	Hard Title	Own House	Corrugated metal sheet	Poor condition	Ground Level	12	990	< one time per year	< 50 cm	No Data	Dug well
17	Toul Makak	017 003 CHOUN CHON Toul Makak List	05/19/2020 11:42:55.000 GMT+07:00	POINT Z (103.968350511 12.489369133500002 3.0)	12.48936913	103.9683505	3.0		1 IDPoor 2	CHOUN CHON	Khmer	38	Male	Yes	Day Labour	6	3	3	0	2	1	Hard Title	Own House	Corrugated metal sheet	Poor condition	Ground Level	30	1350	< one time per year	50 to 100 cm	1 to 7 days	Open pond
18	Toul Makak	018 001 Chhorn Chhoun	05/26/2020 09:45:48.000 GMT+07:00	POINT Z (103.9728989849998 12.48535699 5.85)	12.485357	103.9728989	5.85		1 IDPoor 2	Chhorn Chhoun	Khmer	58	Male	No	Day Labour	7	5	2	1	0	0	Hard Title	Own House	Wood	Poor condition	Silts 1 to 2 m	20	450	< one time per year	< 50 cm	1 to 7 days	Dug well
19	Toul Makak	019 002 PIN SOK	05/26/2020 10:34:16.000 GMT+07:00	POINT Z (103.9738042849998 12.4828656195 4.0)	12.48286562	103.973804	4.0		1 IDPoor 2	PIN SOK	Khmer	51	Male	No	Day Labour	6	3	3	0	2	0	Soft Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	24	200	< one time per year	< 50 cm	1 to 7 days	Dug well
20	Toul Makak	020 006 Lim Bunthou Toul Makak	06/02/2020 14:33:52.000 GMT+07:00	POINT Z (103.959905985 12.5278293099999 3.0)	12.52782931	103.9599056	3.0		1 IDPoor 2	LIM BUNTHOEN	Khmer	33	Male	No	Day Labour	5	1	4	0	3	0	Soft Title	Own House	Corrugated metal sheet	Poor condition	Silts < 1 m	15	300	< one time per year	50 to 100 cm	1 to 7 days	Open pond
21	Toul Makak	021 007 PECH MITH Toul Makak	06/02/2020 15:08:38.000 GMT+07:00	POINT Z (103.9620840200001 12.5157615395 2.35)	12.51576154	103.962084	2.35		1 IDPoor 2	PECH MITH	Khmer	79	Female	Yes	Unemployed	1	0	1	0	0	0	No Data	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	7.5	0	< one time per year	< 50 cm	1 to 7 days	Open pond
22	Toul Makak	022 008 UY Libouen Toul Makak	06/02/2020 15:47:12.000 GMT+07:00	POINT Z (103.9651763174285 12.498331688095238 10.0)	12.49833167	103.9651763	10.0		1 IDPoor 2	UY LIBOEN	Khmer	57	Male	No	Day Labour	3	1	2	0	1	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	750	< one time per year	50 to 100 cm	1 to 7 days	Dug well
23	Toul Makak	023 009 Chhouen Chen	06/02/2020 16:23:17.000 GMT+07:00	POINT Z (103.9617918095 12.497114524 7.35)	12.49711452	103.9617918	7.35		1 IDPoor 1	CHHOUD CHEN	Khmer	50	Male	No	Day Labour	13	7	6	1	5	0	Soft Title	Own House	Corrugated metal sheet	No Data	No Data	20	220	< one time per year	50 to 100 cm	1 to 7 days	Dug well
24	Toul Makak	024 010 Horn Hoen Toul Makak	06/02/2020 16:53:35.000 GMT+07:00	POINT Z (103.973025256 12.485353934 23.0)	12.48535393	103.9730253	23.0		1 IDPoor 1	HORN HOEUN	Khmer	41	Male	No	Day Labour	7	5	2	1	3	0	Soft Title	Own House	Corrugated metal sheet	Poor condition	Silts < 1 m	30	450	< one time per year	< 50 cm	1 to 7 days	Dug well
25	Toul Makak	025 011 PIN SARUN	06/02/2020 17:12:11.000 GMT+07:00	POINT Z (103.9762781249997 12.485320356500001 2.0)	12.48532036	103.976278	-2.2		1 IDPoor 1	PIN SARUN	Khmer	58	Female	No	Day Labour	2	1	1	0	1	0	No Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	20	0	< one time per year	< 50 cm	1 to 7 days	Dug well
26	Toul Makak	026 0012 Sieng Moth Toul Makak	06/03/2020 11:11:37.000 GMT+07:00	POINT Z (103.95852169849998 12.4947699915 26.0)	12.49476999	103.9585217	26.0		1 IDPoor 1	SIENG MOTH	Khmer	83	Female	No	Unemployed	2	0	2	0	0	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Ground Level	12	800	< one time per year	< 50 cm	1 to 7 days	Dug well
27	Toul Makak	027 0013 Mann Sopheap Toul Makak	06/03/2020 11:46:17.000 GMT+07:00	POINT Z (103.95893921 12.4943289 7.0)	12.4943289	103.9589392	7.0		1 IDPoor 2	MANN SOPHEAP	Khmer	56	Female	No	Day Labour	15	5	10	1	4	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	30	450	< one time per year	< 50 cm	1 to 7 days	Dug well
28	Toul Makak	028 0013 Mann Sopheap Toul Makak	06/03/2020 11:46:38.000 GMT+07:00	POINT Z (103.9589394999999 12.49432892499996 7.0)	12.4943289	103.9589395	7.0		1 IDPoor 2	MANN SOPHEAP	Khmer	56	Female	No	Day Labour	15	5	10	1	4	0	Hard Title	Own House	Corrugated metal sheet	Poor condition	Silts 1 to 2 m	30	450	< one time per year	< 50 cm	1 to 7 days	Dug well
29	Toul Makak	29 0014	06/03/2020 12:12:50.000 GMT+07:00	POINT Z (103.95918176100001 12.49421348800002 23.0)	12.49421349	103.9591818	23.0		1 IDPoor 1	YOELIN SOPHORN	Khmer	41	Male	No	Day Labour	7	4	3	1	3	0	No Title	Own House	Corrugated metal sheet	Very poor condition	Silts < 1 m	10.5	0	< one time per year	< 50 cm	1 to 7 days	Dug well
30	Toul Makak	30 0015 SIM YOELIN Toul Makak	06/03/2020 14:09:43.000 GMT+07:00	POINT Z (103.9820666639999 12.47529782400002 12.0)	12.47529782	103.9820667	12.0		1 IDPoor 2	SIM YOELIN	Khmer	38	Male	No	Day Labour	3	2	1	3	0	1	Soft Title	Own House	Corrugated metal sheet	No Data	Ground Level	30	450	< one time per year	50 to 100 cm	1 to 7 days	Dug well
31	Toul Makak	31 0016 SIB YIM Toul Makak	06/03/2020 14:42:08.000 GMT+07:00	POINT Z (103.995063974 12.4586420699999 17.0)	12.45863421	103.995064	17.0		1 IDPoor 1	SIB YIM	Khmer	36	Male	No	Day Labour	7	2	5	0	4	0	Soft Title	Own House	Corrugated metal sheet	Poor condition	Ground Level	35	1500	No Data	No Data	No Data	Dug well
32	Toul Makak	32 0017 SON KHOEUN Toul Makak	06/03/2020 15:44:36.000 GMT+07:00	POINT Z (103.99498459619049 12.45888225714285 12.0)	12.45888225	103.9949846	12.0																									

78	Kash	12 011	05/13/2020 11:20:12.000 GMT-07:00	POINT Z (103.899217 12.505500666666667 7.7)	12.50550067	103.899217	7.7	1	IDPoor 1	Sin Sean	Khmer	63	Female	Yes	No Data	13	5	8	1	4	0	Hard Title	Own House	Wood	Minor quality problems	Silts < 1 m	42	500	one time per year	> 100 cm	1 week to 4 weeks	River
79	Kash	13 012	05/13/2020 11:32:02.000 GMT-07:00	POINT Z (103.89919457264962 12.505357948717952 10.966666666666667)	12.50535795	103.8991946	10.96666667	1	IDPoor 1	Huk Honey	Khmer	31	Female	No	Full Time Employment	4	2	2	1	1	0	No Data	Own House	Wood	Minor quality problems	Silts < 1 m	12	500	one time per year	> 100 cm	1 week to 4 weeks	No Data
80	Kash	14 013	05/13/2020 11:36:20.000 GMT-07:00	POINT Z (103.89920017543855 12.505470614035083 7.89473684210526)	12.50547061	103.8992002	7.89473684	1	IDPoor 1	Hun Srey	Khmer	42	Female	No	Full Time Employment	4	2	2	0	3	0	No Data	Own House, shared with other family	Wood	Minor quality problems	Silts 1 to 2 m	42	500	one time per year	> 100 cm	1 week to 4 weeks	No Data
81	Kash	15 014	05/13/2020 11:41:03.000 GMT-07:00	POINT Z (103.89915500000001 12.505491666666666 6.099999999999999)	12.50549167	103.899155	6.1	1	IDPoor 1	Sao Bol	Khmer	38	Male	No	Day Labour	3	2	1	0	1	0	No Data	Own House, shared with other family	Wood	Poor condition	Silts < 1 m	12	500	one time per year	> 100 cm	1 to 7 days	No Data
82	Kash	16 Kaoh village	05/13/2020 11:41:23.000 GMT-07:00	POINT Z (103.89915500000004 12.505491666666667 6.099999999999997)	12.50549167	103.899155	6.1	1	IDPoor 1	Sao Bol	Khmer	38	Male	No	Day Labour	3	2	1	0	1	0	No Data	Own House, shared with other family	Wood	No Data	Silts > 2 m		No Data	No Data	No Data	No Data	
83	Kash	17 015	05/14/2020 10:43:17.000 GMT-07:00	POINT Z (103.89787166666675 12.505214999999994 18.199999999999952)	12.505215	103.8978717	18.2	1	IDPoor 1	An Huoy	Khmer	91	Female	Yes	No Data	2	1	1	0	0	0	Hard Title	Own House	Wood	Poor condition	Ground Level	20	140	one time per year	> 100 cm	1 to 7 days	Dug well
84	Kash	18 016	05/14/2020 11:03:31.000 GMT-07:00	POINT Z (103.8980541666667 12.505292499999994 8.970000000000004)	12.5052925	103.898054	8.97	1	IDPoor 1	Ven Kimmy	Khmer	75	Female	Yes	No Data	5	3	2	1	1	1	Hard Title	Own House	Wood	Very poor condition	Silts < 1 m	16	400	one time per year	> 100 cm	1 to 7 days	No Data
85	Kash	19 017	05/14/2020 11:15:12.000 GMT-07:00	POINT Z (103.89804166666664 12.505451666666667 13.800000000000006)	12.50545167	103.8980417	13.8	1	IDPoor 2	Ouk Siowath	Khmer	37	Male	No	No Data	5	3	2	0	3	0	Hard Title	Own House	Wood	Good	Silts 1 to 2 m	35	1200	one time per year	> 100 cm	1 to 7 days	No Data
86	Kash	20 018	05/15/2020 09:30:36.000 GMT-07:00	POINT Z (103.90011833333328 12.506833333333335 9.400000000000004)	12.50683333	103.9001183	9.4	1	IDPoor 1	Hch Kimpoy	Khmer	36	Male	No	Full Time Employment	5	1	4	1	3	0	No Data	Own House	Wood	Minor quality problems	Silts 1 to 2 m	30	150	one time per year	> 100 cm	1 week to 4 weeks	No Data
87	Kash	21 019	05/15/2020 09:36:11.000 GMT-07:00	POINT Z (103.89993291666666 12.506804333333339 15.705000000000004)	12.50680433	103.8999329	15.705	1	IDPoor 1	Chh Chun	Khmer	29	Male	No Data	Day Labour	4	1	3	1	1	0	Title in name of relative	No Data	No data	No Data	No Data		105	one time per year	> 100 cm	1 to 7 days	No Data
88	Kash	22 020	05/15/2020 09:49:07.000 GMT-07:00	POINT Z (103.89965833333329 12.507091666666668 15.800000000000006)	12.50709167	103.8996583	15.8	1	IDPoor 1	Chea Sung	Khmer	43	Male	No	Day Labour	6	2	4	0	1	0	Hard Title	Own House	Bricks, Concrete Blocks	Good	Ground Level	45	225	one time per year	50 to 100 cm	1 to 7 days	River
89	Kash	23 021	05/15/2020 10:03:29.000 GMT-07:00	POINT Z (103.89947400000001 12.50726975 14.304999999999998)	12.50726975	103.899474	14.305	1	IDPoor 1	Long Sao	Khmer	26	Male	No	Day Labour	3	1	2	1	0	0	No Data	Own House	Wood	Minor quality problems	Silts < 1 m	6	100	one time per year	50 to 100 cm	1 to 7 days	River
90	Kash	24 022	05/15/2020 10:12:32.000 GMT-07:00	POINT Z (103.89945358974354 12.507329945897435 19.88461538461539)	12.50732994	103.8994536	19.88461538	1	IDPoor 2	Vay Seurm	Khmer	63	Male	No	Unemployed	5	3	2	0	1	0	Hard Title	Own House	Wood	Minor quality problems	Silts 1 to 2 m	35	720	one time per year	> 100 cm	1 to 7 days	Dug well
91	Kash	25 023	05/15/2020 10:20:49.000 GMT-07:00	POINT Z (103.89952999999996 12.507441666666667 7.2)	12.50744167	103.89953	7.2	1	IDPoor 1	Chhoeung Vuth	Khmer	35	Male	No	Day Labour	6	5	1	1	3	0	No Title	Own House	Wood	Minor quality problems	Silts < 1 m	30	160	one time per year	> 100 cm	1 to 7 days	Dug well
92	Kash	26 024	05/15/2020 10:28:01.000 GMT-07:00	POINT Z (103.89950999999999 12.50744333333333 12.0)	12.50744333	103.89951	12	1	IDPoor 1	Long Pov	Khmer	29	Male	No Data	Day Labour	4	2	2	0	2	0	No Title	Own House	Wood	Minor quality problems	Silts < 1 m	30	160	one time per year	> 100 cm	1 to 7 days	Dug well
93	Kash	27 025	05/15/2020 10:44:56.000 GMT-07:00	POINT Z (103.89950008333332 12.506608833333333 7.520000000000005)	12.50660883	103.8995001	7.52	1	IDPoor 1	Ocum Saphal	Khmer	37	Female	No	Day Labour	4	1	3	0	2	0	Title in name of relative	Own House	Wood	Minor quality problems	Silts 1 to 2 m	15	60	one time per year	50 to 100 cm	1 week to 4 weeks	No Data
94	Kash	28 026	05/15/2020 10:58:37.000 GMT-07:00	POINT Z (103.89879333333332 12.504441666666667 13.5)	12.50444167	103.8987933	13.5	1	IDPoor 1	Hem Bo	Khmer	80	Female	Yes	No Data	2	0	2	0	1	0	No Data	Own House	Wood	Poor condition	Silts < 1 m	12	400	one time per year	> 100 cm	1 week to 4 weeks	No Data
95	Kash	29 027	05/15/2020 11:12:41.000 GMT-07:00	POINT Z (103.89832333333334 12.505771666666667 16.4)	12.50577167	103.8983233	16.4	1	IDPoor 1	Phou Chansok	Khmer	43	Male	No	Day Labour	5	2	3	1	2	0	No Data	Own House	Wood	Poor condition	Silts < 1 m	20	300	one time per year	> 100 cm	1 week to 4 weeks	Dug well
96	Kash	30 028	05/15/2020 16:10:15.000 GMT-07:00	POINT Z (103.89434024999998 12.504393166666667 17.775)	12.50439317	103.8943493	17.775	1	IDPoor 1	Chum Ren	Khmer	78	Female	Yes	No Data	2	1	1	0	0	0	No Data	Own House	Wood	Minor quality problems	Ground Level	20	450	one time per year	> 100 cm	1 to 7 days	No Data
97	Kash	31 029	05/15/2020 16:26:56.000 GMT-07:00	POINT Z (103.8823683333333 12.505476666666667 14.300000000000006)	12.50547667	103.8823683	14.3	1	IDPoor 2	Mao Kamsort	Khmer	42	Male	No	Day Labour	5	3	2	0	3	0	Title in name of relative	Own House	Wood	Minor quality problems	Ground Level	72	1561	one time per year	50 to 100 cm	1 to 7 days	River
98	Kash	32 030	05/15/2020 16:45:36.000 GMT-07:00	POINT Z (103.8819434999999 12.505335 14.99)	12.505335	103.8819433	14.99	1	IDPoor 1	Uk Moeurn	Khmer	77	Female	Yes	No Data	4	1	3	1	1	0	Hard Title	Own House	Wood	Minor quality problems	Ground Level	35	2000	No Data	No Data	No Data	River
99	Kash	33 031	05/15/2020 17:02:51.000 GMT-07:00	POINT Z (103.8817180000006 12.505551666666667 12.6)	12.50555167	103.8817118	12.6	1	IDPoor 1	Moeurn Mean	Khmer	39	Male	No	Day Labour	6	2	4	1	3	0	Hard Title	Own House	Corrugated metal sheet	Good	Ground Level	20	200	No Data	No Data	No Data	River
100	Kash	34 032	06/01/2020 10:28:45.000 GMT-07:00	POINT Z (103.90279430555553 12.506297222222223 12.258333333333333)	12.50629722	103.9027943	12.25833333	1	IDPoor 1	Sear Osaphea	Khmer	31	Male	No	No Data	6	3	3	1	2	1	Soft Title	Own House	Wood	Minor quality problems	Silts 1 to 2 m	20	150	one time per year	50 to 100 cm	1 to 7 days	River
101	Kash	35 033	06/01/2020 10:47:21.000 GMT-07:00	POINT Z (103.90058666666664 12.507199583333337 13.809999999999999)	12.50719958	103.9005967	13.81	1	IDPoor 1	Nhem Mao	Khmer	61	Female	No	Unemployed	4	2	2	0	1	0	No Data	Own House	Wood	Minor quality problems	Silts 1 to 2 m	20	600	one time per year	50 to 100 cm	1 to 7 days	River
102	Kash	36 034	06/01/2020 10:56:19.000 GMT-07:00	POINT Z (103.90437333333331 12.509114500000006 18.620000000000005)	12.5091145	103.9043728	18.62	1	IDPoor 1	Seour Pisey	Khmer	36	Male	No	Day Labour	3	1	2	0	1	0	Soft Title	Own House	Wood	Minor quality problems	Silts < 1 m	12	150	one time per year	50 to 100 cm	1 to 7 days	River
103	Kash	37 035	06/04/2020 08:50:12.000 GMT-07:00	POINT Z (103.89823333333334 12.505317666666667 7.2950000000000035)	12.50531767	103.8982357	7.295	1	IDPoor 1	Chamreoun Chetra	Khmer	30	Male	No Data	Day Labour	4	2	2	0	2	0	No Data	Own House	Wood	Minor quality problems	Silts 1 to 2 m	20	400	one time per year	> 100 cm	1 week to 4 weeks	River
104	Kash	38 036	06/04/2020 08:59:59.000 GMT-07:00	POINT Z (103.89935500000001 12.506220000000008 9.400000000000004)	12.50622	103.899355	9.4	1	IDPoor 1	Chhouk Sam	Khmer	80	Female	Yes	No Data	1	0	1	0	0	0	No Data	Own House	Wood	Minor quality problems	Silts 1 to 2 m	12	12	one time per year	50 to 100 cm	1 to 7 days	Dug well
105	Kash	39 037	06/04/2020 09:16:41.000 GMT-07:00	POINT Z (103.89877166666666 12.506300000000005 - 14.099999999999998)	12.5063	103.8987717	-14.1	1	IDPoor 1	Seang Ngouch	Khmer	67	Female	No	Day Labour	3	1	2	0	0	0	Hard Title	Own House	Wood	Minor quality problems	Silts 1 to 2 m	20	346	one time per year	> 100 cm	1 to 7 days	No Data
106	Kash	40 038	06/04/2020 09:47:54.000 GMT-07:00	POINT Z (103.88574999999996 12.504923333333329 10.300000000000006)	12.50492333	103.88575	10.3	1	IDPoor 1	Nuth Sapib	Khmer	33	Male	No	Day Labour	3	2	1	1	0	0	No Data	Own House	Wood	Poor condition	Ground Level	12	100	one time per year	< 50 cm	1 to 7 days	River
107	Kash	41 039	06/04/2020 10:06:59.000 GMT-07:00	POINT Z (103.90373999999999 12.508653333333337 14.0)	12.50865333	103.90372	14	1	IDPoor 1	Hin Sreyun	Khmer	50	Female	No	Day Labour	5	2	3	1	0	0	Title in name of relative	No Data	Wood	Good	Silts 1 to 2 m	42	180	No Data	No flooding	No Data	River

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Rain Water Harvesting	Financing Rain Water Harvesting	Sanitation	Materials Existing latrine	Condition Latrine	Financing Latrine Construction	Latrine Use	Space for Septic Tank and Drainage Installation	House	Latrine	Overview of the Plot (house, latrine, other structures)	Landtitle	IDPoor Card	Additional Observation
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	Sufficient Space	CMEI Updated_20200510_112035077.jpg		CMEI Updated_20200510_161219561.jpg		CMEI Updated_20200510_16139238.jpg	Her Land Title is with the Bank to loan for her income generation activities. The latrine can construct in her land where can the elderly family nearby is able to share with her because they are the relatives each other.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Wooden Floor	Poor Condition	NGO/Civil Society	Shared with other family	Sufficient Space		CMEI Updated_20200510_165533789.jpg	CMEI Updated_20200510_165715274.jpg	CMEI Updated_20200510_165819307.jpg	CMEI Updated_20200510_16591337.jpg	Her land title is in Bank to loan for her income generation activities to earn her living.
Not Used	No Data	Open Defecation	No Data	No in Use	No Data	No Data	No space	CMEI Updated_20200510_171957241.jpg		CMEI Updated_20200510_172101050.jpg		CMEI Updated_20200510_172159158.jpg	She is very poor and has no land to construct the latrine, she earns her daily living by selling labor day by day.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Shared with multiple families	Only space for septic tank		CMEI Updated_20200510_173502704.jpg	CMEI Updated_20200510_173533135.jpg	CMEI Updated_20200510_173618845.jpg	CMEI Updated_20200510_173713130.jpg	Her Land Title is in the Bank to loan for her income generation activities.
Supply for < 1 month	NGO/Civil Society	Open Defecation	No Data	No in Use	Self Financed	No Data	No space	CMEI Updated_20200517_10055447.jpg		CMEI Updated_20200512_161236976.jpg	CMEI Updated_20200512_161346813.jpg	CMEI Updated_20200512_161432346.jpg	He lives in someone's land and has no land to construct the latrine.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	No space	CMEI Updated_20200517_100350772.jpg		CMEI Updated_20200512_163401972.jpg		CMEI Updated_20200512_163515144.jpg	She lives in someone's land and has no land space to construct the latrine .
Supply for < 1 month	NGO/Civil Society	Open Defecation	No Data	No Data	No Data	No Data	No space	CMEI Updated_20200527_100501706.jpg		CMEI Updated_20200512_165026276.jpg		CMEI Updated_20200512_165137985.jpg	She lives in someone's and has no land to construct the latrine.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	No space	CMEI Updated_20200527_100213246.jpg		CMEI Updated_20200512_171238139.jpg		CMEI Updated_20200512_171416612.jpg	He lives in someone's land and has no land to construct the latrine .
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	No space	CMEI Updated_20200527_10029146.jpg		CMEI Updated_20200512_173314678.jpg	CMEI Updated_20200512_173410641.jpg	CMEI Updated_20200512_173612555.jpg	He has no land, he lives on someone's land and has no space to construct the latrine.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	Self Financed	Single family	Only space for septic tank		CMEI Updated_20200514_160807503.jpg	CMEI Updated_20200514_160924039.jpg	CMEI Updated_20200514_161011783.jpg	CMEI Updated_20200514_161212656.jpg	Her land title is with the Bank to loan for daily income generation activities.
Supply for < 1 month	No Data	Open Defecation	No Data	No in Use	No Data	No Data	No Data	CMEI Updated_20200514_165205393.jpg	CMEI Updated_20200514_165329580.jpg	CMEI Updated_20200514_165407947.jpg		CMEI Updated_20200514_165614491.jpg	His Land Title is with the Bank to loan for his small business and income generation activities.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	No Data	CMEI Updated_20200514_171857919.jpg		CMEI Updated_20200514_172045160.jpg		CMEI Updated_20200514_172353911.jpg	Her Land title is with the Bank to loan for income and daily payment , her ID poor card is just developed in May 2020 but it is not yet completed by PDP to send back to his family.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Shared with other family	Only space for septic tank		CMEI Updated_20200514_174510314.jpg	CMEI Updated_20200514_174529398.jpg	CMEI Updated_20200514_174729757.jpg	CMEI Updated_20200514_174729757.jpg	Her Land Title is with the Bank for the loan .
Not Used	No Data	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	Self Financed	Shared with other family	Limited space		CMEI Updated_20200519_101104144.jpg	CMEI Updated_20200519_101202938.jpg	CMEI Updated_20200519_101253446.jpg	CMEI Updated_20200519_101532446.jpg	She is the land owner, but her land title is in the Bank to loan for her income activities.
Supply for 1 to 3 month	Help from relatives	Open Defecation	No Data	No in Use	No Data	No Data	No space	CMEI Updated_20200519_103906075.jpg		CMEI Updated_20200519_104302682.jpg		CMEI Updated_20200519_104232297.jpg	She is destitute whose daily livelihood depends on the neighbors' donations, she has no land to love , she lives on the neighbor's land. She has no land to construct latrine.
Supply for 1 to 3 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	Self Financed	Single family	Only space for septic tank		CMEI Updated_20200519_111807488.jpg	CMEI Updated_20200519_111906065.jpg	CMEI Updated_20200519_112146918.jpg	CMEI Updated_20200519_112146918.jpg	His Land Title is with the Bank to loan for his family income generation activities. His ID poor card is just developed new in May 2020, but was not yet completed and sent back from PDP through village chief.
Not Used	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	Self Financed	Single family	Only space for septic tank		CMEI Updated_20200519_114324030.jpg	CMEI Updated_20200519_114405607.jpg	CMEI Updated_20200519_114709398.jpg	CMEI Updated_20200519_114709398.jpg	New ID poor card is just developed in May 2020 and not yet completed and sendback from PDP through village chief. He is a disable after traffic accident two years ago.
Supply for < 1 month	NGO/Civil Society	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Single family	Only space for septic tank		CMEI Updated_20200526_094737777.jpg	CMEI Updated_20200526_094844652.jpg	CMEI Updated_20200526_095056396.jpg	CMEI Updated_20200526_095056396.jpg	New ID Poor Card just has developed in 2020 but it is not yet provided by PDP through village chief. The Hard Land Title is in Bank to loan for business and income activities.
Supply for < 1 month	NGO/Civil Society	Open Defecation	No Data	No in Use	No Data	No Data	Sufficient Space		CMEI Updated_20200526_103441029.jpg	CMEI Updated_20200526_103629521.jpg	CMEI Updated_20200526_103730398.jpg	CMEI Updated_20200526_103730398.jpg	The new ID poor card is developed in May 2020, it is not yet completed and send back from PDP through village chief. Her land is belonged to him but not yet hard land Title , it is just in soft land Title.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	Sufficient Space		CMEI Updated_20200602_143424079.jpg	CMEI Updated_20200602_143454286.jpg	CMEI Updated_20200602_143606574.jpg	CMEI Updated_20200602_143606574.jpg	The Land Title is not yet completed and it is still in the land department office, he is the owner of the land .
No Data	No Data	Open Defecation	No Data	No Data	No Data	No Data	No space		CMEI Updated_20200602_151052113.jpg	CMEI Updated_20200602_151113388.jpg	CMEI Updated_20200602_151151137.jpg	CMEI Updated_20200602_151151137.jpg	She has no land and land title, she has no job ,she lives depend on her children support for daily livelihood.
Supply for < 1 month	NGO/Civil Society	Pour Flush Latrine	Bricks/Concrete Blocks Shelter, Concrete Floor	Moderate Condition	Self Financed	Shared with other family	Sufficient Space		CMEI Updated_20200602_154741528.jpg	CMEI Updated_20200602_154759839.jpg	CMEI Updated_20200602_154826043.jpg	CMEI Updated_20200602_154826043.jpg	She is also elderly with left broken hand, but her children are the better off families.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No in Use	No Data	No Data	Sufficient Space		CMEI Updated_20200602_162337726.jpg	CMEI Updated_20200602_162355475.jpg	CMEI Updated_20200602_162446404.jpg	CMEI Updated_20200602_162446404.jpg	The Land Title is with the Bank for loan.
Not Used	No Data	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200602_165408627.jpg	CMEI Updated_20200602_165478088.jpg	CMEI Updated_20200602_165478088.jpg	CMEI Updated_20200602_165478088.jpg	The land title is with the Bank for loan. The latrine now is full of poo waste and could not use any more.
Supply for < 1 month	Help from relatives	Open Defecation	No Data	No Data	Self Financed	No Data	No space		CMEI Updated_20200602_171226630.jpg	CMEI Updated_20200602_171252222.jpg	CMEI Updated_20200602_171252222.jpg	CMEI Updated_20200602_171553420.jpg	all family members are doing open defecation.
Supply for < 1 month	NGO/Civil Society	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200603_111551515.jpg	CMEI Updated_20200603_111227783.jpg	CMEI Updated_20200603_111253138.jpg	CMEI Updated_20200603_111253138.jpg	The new ID poor card in Pursat is developed with Local authority and Provincial Planning Department, Hard Land Title is not yet completed but they registered already. The farm just moved from Takeo province in 2019
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	NGO/Civil Society	Shared with multiple families	Limited space		CMEI Updated_20200603_115305993.jpg	CMEI Updated_20200603_115349251.jpg	CMEI Updated_20200603_115442776.jpg	CMEI Updated_20200603_115442776.jpg	She is a new comer from other village and new ID poor family, her ID poor card is just developed in May 2020, it is not yet completed and provided back from Provincial Planning Department and local authority.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	NGO/Civil Society	Shared with multiple families	Limited space		CMEI Updated_20200603_114719183.jpg	CMEI Updated_20200603_114813099.jpg	CMEI Updated_20200603_114853638.jpg	CMEI Updated_20200603_114853638.jpg	She has no land , she is living in her cousin land .
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No space	No space		CMEI Updated_20200603_121134133.jpg	CMEI Updated_20200603_121333866.jpg	CMEI Updated_20200603_121453832.jpg	CMEI Updated_20200603_121453832.jpg	Hard Land Title is with the Bank for loan, she is also elderly, thus the latrine needs only one construction with Ngeth Khovun/ Pin Sarouen because they are mother and daughter in law.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Poor Condition	NGO/Civil Society	Single family	Sufficient Space		CMEI Updated_20200603_141009328.jpg	CMEI Updated_20200603_141002061.jpg	CMEI Updated_20200603_141130375.jpg	CMEI Updated_20200603_141223139.jpg	The Hard Land Title is with the Bank to loan for mother health treatment and income generation activities, this household is containing too many family members.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	NGO/Civil Society	Single family	Only space for septic tank		CMEI Updated_20200603_151703883.jpg	CMEI Updated_20200603_151732879.jpg	CMEI Updated_20200603_151837889.jpg	CMEI Updated_20200603_151837889.jpg	The Hard Land Title is with the Bank to loan for mother health treatment and income generation.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Single family	Limited space		CMEI Updated_20200603_154540301.jpg	CMEI Updated_20200603_154615291.jpg	CMEI Updated_20200603_154647496.jpg	CMEI Updated_20200603_154748367.jpg	This household is containing too many family members in leads.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200603_161390902.jpg	CMEI Updated_20200603_161494849.jpg	CMEI Updated_20200603_162034696.jpg	CMEI Updated_20200603_162034696.jpg	This household has no own land to live, he lives with mother in lawland, they live by selling daily labor to life, the latrine construction could build only with mother in law , they can share in uses together. The ID poor card is done in May 2020 and not yet provided back from PoPD and local authority.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200603_161508397.jpg	CMEI Updated_20200603_161539286.jpg	CMEI Updated_20200603_161631745.jpg	CMEI Updated_20200603_161631745.jpg	The Hard Land Title with the private money lender to loan for son health treatment.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Other Local Materials	Poor Condition	Self Financed	Single family	Sufficient Space		CMEI Updated_20200604_161289898.jpg	CMEI Updated_20200604_161408247.jpg	CMEI Updated_20200604_161438450.jpg	CMEI Updated_20200604_161438450.jpg	The hard Land Title is not yet done because the land got distribution from uncle more than 10 years.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	Self Financed	Single family	Sufficient Space		CMEI Updated_20200604_172305610.jpg	CMEI Updated_20200604_172356576.jpg	CMEI Updated_20200604_172825555.jpg	CMEI Updated_20200604_172825555.jpg	The hard Land Title is with the Private Money Lender to loan for income generation activities, fill the house yard ground. It is also for husband mental treatment.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Single family	Sufficient Space		CMEI Updated_20200605_120656917.jpg	CMEI Updated_20200605_120757872.jpg	CMEI Updated_20200605_120834833.jpg	CMEI Updated_20200605_120834833.jpg	The Hard Land Title is with Bank to loan create income generation activities.
Supply for 1 to 3 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Limited space		CMEI Updated_20200605_123204782.jpg	CMEI Updated_20200605_123218891.jpg	CMEI Updated_20200605_123230396.jpg	CMEI Updated_20200605_123230396.jpg	The hard Land Title is with the bank to loan for income generation activities and family members health treatments.
Supply for < 1 month	Help from relatives	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Single family	Limited space		CMEI Updated_20200605_145127124.jpg	CMEI Updated_20200605_145212044.jpg	CMEI Updated_20200605_145249491.jpg	CMEI Updated_20200605_145307605.jpg	This is a new ID poor HH that was selected in May 2020, it is not yet completed and provided back from PoPD and local authority. Her hard land title is, with the Bank to loan for income generation activities and health treatment. Within the interview she could not find ID card because she is so old now.
No Data	Help from relatives	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Single family	Only space for septic tank		CMEI Updated_20200605_153236735.jpg	CMEI Updated_20200605_153413558.jpg	CMEI Updated_20200605_153413558.jpg	CMEI Updated_20200605_153504775.jpg	The New ID poor card is just made in May 2020 and not yet provided back. He is living with his mother in law because he is a soft leg disable since he was teenager, he selling labor as the carver in Kravanh district. The latrine can struct within the land of mother in law because he has no house and land by agreement from mother in law .
Supply for < 1 month	Help from relatives	Open Defecation	No Data	No Data	No Data	No Data	No Data		CMEI Updated_20200605_160626749.jpg	CMEI Updated_20200605_160700492.jpg	CMEI Updated_20200605_160750941.jpg	CMEI Updated_20200605_160750941.jpg	This family has no land , she lives on the road Bank Side, the family members always do the opened defecation at night time.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Sheet Metal Shelter and Concrete Floor	Moderate Condition	Help from Relatives	Single family	Sufficient Space		CMEI Updated_20200605_16436320.jpg	CMEI Updated_20200605_164501653.jpg	CMEI Updated_20200605_164427695.jpg	CMEI Updated_20200605_164427695.jpg	The soft Land Title and ID poor cards of this household are with the family members who are locked down in Thailand because he migrated for selling labor. The information provider is his father name's Pech Kha .
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	Self Financed	Single family	Sufficient Space		CMEI Updated_20200608_101555254.jpg	CMEI Updated_20200608_101641324.jpg	CMEI Updated_20200608_101739825.jpg	CMEI Updated_20200608_101902889.jpg	The hard Land Title is with the Bank for loan to create generation activities , the new ID poor in May 2020 is not yet completed from authority .
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200608_105567111.jpg	CMEI Updated_20200608_105630575.jpg	CMEI Updated_20200608_105759998.jpg	CMEI Updated_20200608_105759998.jpg	The land has in soft title but not yet provided back from local authority.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200608_111712717.jpg	CMEI Updated_20200608_111757207.jpg	CMEI Updated_20200608_111846005.jpg	CMEI Updated_20200608_111846005.jpg	The Hard Land Title is with the private bank to loan for generation activities , New ID poor card just redid in May 2020 and not yet provided back from local authority.
No Data	No Data	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200608_120958868.jpg	CMEI Updated_20200608_121036902.jpg	CMEI Updated_20200608_121131695.jpg	CMEI Updated_20200608_121131695.jpg	The soft land title is not yet completed provided authority , the New ID poor card was made in May 2020.
Supply for < 1 month	Self Financed	Pour Flush Latrine	Wooden Shelter and Concrete floor	Poor Condition	NGO/Civil Society	Shared with other family	Limited space		CMEI Updated_20200610_093426105.jpg	CMEI Updated_20200610_093622605.jpg	CMEI Updated_20200610_093702653.jpg	CMEI Updated_20200610_093702653.jpg	The soft land title is registered but not yet provided back , new ID poor card was made in May 2020
Supply for < 1 month	Help from relatives	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200610_095257282.jpg	CMEI Updated_20200610_095337844.jpg	CMEI Updated_20200610_095421474.jpg	CMEI Updated_20200610_095421474.jpg	The soft land title was registered but not yet provided back , new ID Poor card just developed in May 2020
No Data	No Data	Open Defecation	No Data	No Data	No Data	No Data	Limited space		CMEI Updated_20200610_101454680.jpg	CMEI Updated_20200610_101523236.jpg	CMEI Updated_20200610_101740847.jpg	CMEI Updated_20200610_101740847.jpg	The old ID Poor card was lost and New ID poor card is just made in May 2020 . the soft land title was registered but not yet provided back . This household just moved to new place recently. The photo of this man is her husband in his new cottage. He is also the mental disable man.
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Limited space		CMEI Updated_20200610_104107329.jpg	CMEI Updated_20200610_104212691.jpg	CMEI Updated_20200610_104212691.jpg	CMEI Updated_20200610_104212691.jpg	The Hard Title is with the private money lender to loan for income generation activities, new ID poor card is just made in May 2020
Supply for 1 to 3 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200610_112643636.jpg	CMEI Updated_20200610_112658989.jpg	CMEI Updated_20200610_112737746.jpg	CMEI Updated_20200610_112737746.jpg	The hard land title was done and is with the Bank to loan for generation activities , new ID poor card is done in May 2020
Supply for < 1 month	Self Financed	Open Defecation	No Data	No Data	No Data	No Data	Sufficient Space		CMEI Updated_20200610_114126717.jpg	CMEI Updated_20200610_114151692.jpg	CMEI Updated_20200610_114206210.jpg	CMEI Updated_20200610_114206210.jpg	The soft land title was registered but not yet provided back, the new ID poor card is just done in May 2020.
No Data	No Data	Pour Flush Latrine	Other Local Materials	No Data	No Data	No Data	Limited space		CMEI Updated_20200610_123025922.jpg	CMEI Updated_20200610_			



## Short note on Small Scale Sanitation grants – Cambodia – Phase 01

### 1. Rationale

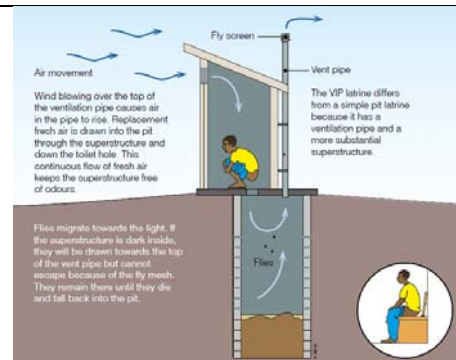
The id poor 01 and 02 are the poorest of the poor communities in Cambodia. They do not possess basic amenities of comfort and good living. They survive on the margins and continue to struggle on most indicators of health and wellbeing. The project has identified the sanitation needs of the communities and worked out a feasible package aimed at alleviating the public health challenges.

### 2. Assessment

The project team has undertaken a revised assessment of the beneficiaries in coordination with the PMIS team having trained the field teams on the software. We are using a GPS enabled mapping tool to assess and record each household with a detailed sanitation assessment, which will be future proof. The data collection in the field had slowed down due to the covid-19 situation and the rainy season. The assessment covered a variety of parameters including flood levels, access to land, ID poor classification, family size, and also precise geo coded information about current sanitation situation, latrines conditions, size of the land holding etc.

### 3. Proposed package

- a) **VIP latrine-** the proposed solution is of a VIP (Ventilated Improved Pit) latrine for the poor communities in the operational geography. It is an upgrade over the pit latrine is a cost effective measure to promote household sanitation by providing the inside of the latrine with a vertical ventilation pipe, referred to as a vent, the top of which is fitted with a fine-mesh insect screen. This latrine will help prevent the spread of diseases caused by flies, mosquitoes or other insects being attracted towards excrement and creating centres of infection.



- b) **Jars for water storage** – proposed to provide water jar made of cement concrete to each household. This is an important water storage mechanism practiced by the households in

the operational geography. It is proposed to provide four per HU. These containers will collect the water harvested from the roofs.

c) **Rooftop and drainage pipes for roof water harvesting:** The adoption of the roof drainage solution of supply and installation of rooftop gutter and drainage pipes for rainwater harvesting.

d) **Water Purifier-** proposed to provide a low-cost household ceramic water filter. The ceramic water filter shall be Tunsai (Rabbit) ceramic water purify or equivalent which manufactured by locally sourced clay and rice husk are processed then mixed with water, pressed into the filter shape, fired to a ceramic state, flow rate tasted to ensure production consistency and coated with silver nitrate solution. The household filter is a two-bucket system. Water is poured into the top container, filters through the filter into a safe storage container. There is a tap for dispensing treated water.



#### 4. Why this Package

The proposed package provides a comprehensive coverage for identified sanitation gaps. The package covers the household sanitation needs through the latrine, covers the lack of running water through the provisions of water storage containers, reduces public health risk through filtered safe water provisioning and allows for harvesting much needed rainwater through rooftop rain harvesting supports. This proposed package will be the phase 01 of the direct hardware support to the ID poor and will be supplemented by further identified gaps for which targeted assistance package will be designed and provided for. The proposed action complements the already commissioned public health awareness raising actions of the CMEI project.

#### 5. Limitation and potential pathways for additional scope of actions

A few households possess the ID poor cards and qualify for the ID poor selection criteria but do not have the land title. The proposed action has identified 33 of such households and we are verifying the details further. As the proposed solution consists of support which can be moved and only the latrine is of a fixed nature (to the land), it would be good to understand if there is any flexibility available to include such poor and impoverished households with no land title but a definite land holding on which they currently reside. If agreed, we could potentially add more deserving households.

**End of Document**

# CMEI Sample Information Board

**វិធានការកម្រិតប្រឡាក់ៗ និងក្តីមេត្តា**  
ទីវិទ្យាល័យភាពជាដៃគូសហប្រតិបត្តិការសហគមន៍ស្រុកបឹងកក់ ខេត្តកោះកុង ថ្ងៃទី ១៥ ខែ មេសា ឆ្នាំ ២០១៩

1. ចាប់ផ្តើមដោយស្រោចមាត់ដោយទឹកស្អាត។
2. ក្រាបទូលំទូលាយដោយប្រើប្រាស់សាប៊ូ។
3. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
4. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
5. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
6. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
7. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។

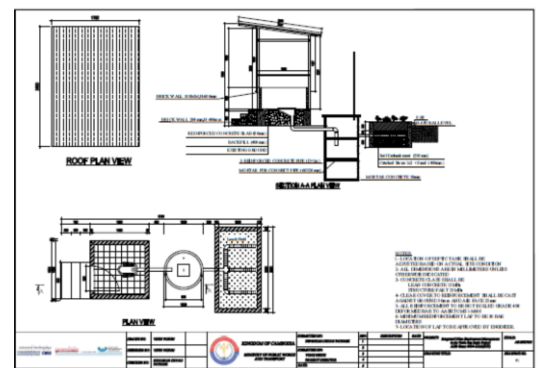
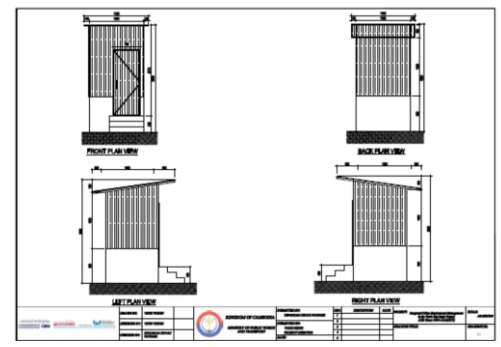
USAID unicef

**របៀបចម្រើនសម្អាតដៃ**

១. ចាប់ផ្តើមដោយស្រោចមាត់ដោយទឹកស្អាត។
២. ក្រាបទូលំទូលាយដោយប្រើប្រាស់សាប៊ូ។
៣. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
៤. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
៥. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
៦. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។
៧. ប្រើប្រាស់សាប៊ូដោយប្រើប្រាស់ប្រដាប់ប្រើប្រាស់សាប៊ូ។

សម្ព័ន្ធស៊ីវិលសង្គម ជាមួយដៃគូសហប្រតិបត្តិការសហគមន៍ស្រុកបឹងកក់ ខេត្តកោះកុង ថ្ងៃទី ១៥ ខែ មេសា ឆ្នាំ ២០១៩

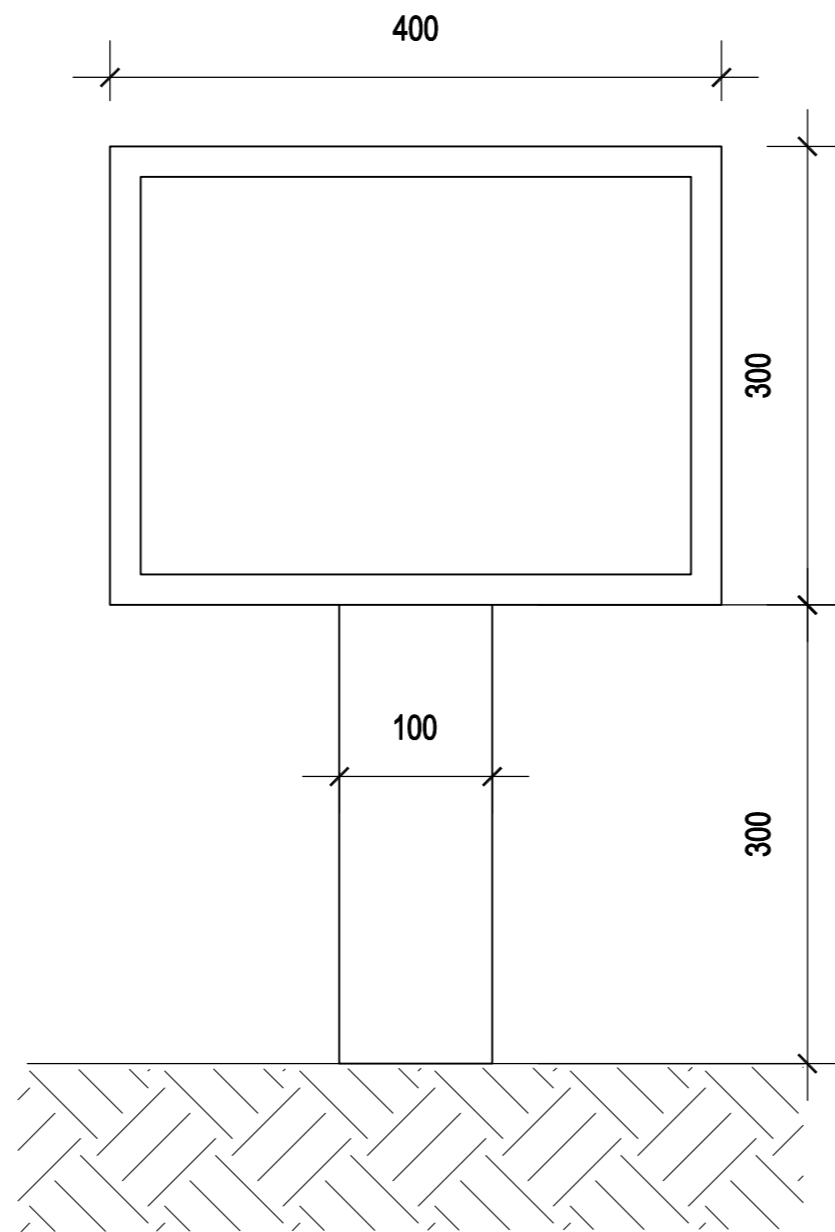
USAID unicef



**Beneficiary list**


CMEI Project – Padek-WEDC – MPWT- ADB  
this space will have project information, contact numbers and feedback options





<b>DRAWN BY:</b>	VETH VOEUN
<b>DESIGNED BY:</b>	VETH VOEUN
<b>CHECKED BY:</b>	DIPANKAR CHYAU PATNAIK

  
**KINGDOM OF CAMBODIA**  
**MINISTRY OF PUBLIC WORKS AND TRANSPORT**

<b>SUBMITTED BY:</b>	DIPANKAR CHYAU PATNAIK
<b>SUBMITTED BY:</b>	VONG PISITH PROJECT DIRECTOR
<b>DATE:</b>	

REV.	DESCRIPTION	DATE
1		
2		
3		
4		
5		

**PROJECT:** *Integrated Urban Environment Management in the Tonle Sap Basin Project ADB Grant: 0454-CAM(SCF)*  
**DRAWING TITLE:**

**SCALE:** AS SHOWN  
**DRAWING NO.** 01

## The Information Board

### Concrete Information Board cost estimation

No.	DESCRIPTION WORK	UNIT	QUANTIT Y	UNIT PRICE (\$)	TOTAL (\$)
1	Materail for install Information Board	set	1.00	90.00	90.00
2	Labour to complete the information board	Set	1.00	30.00	30.00
<b>SUB-TOTAL BUDGET</b>					<b>120.00</b>

**End of Document**

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