

# Building resilience of urban populations with ecosystem-based solutions in Lao PDR

## TRAINING NEEDS ASSESSMENT REPORT

Champasak, Savannakhet, Bolikhamxay Provinces: June 27-29, 2022

Vientiane Capital: July 18, 2022

NOVEMBER 2022

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## Abbreviations and acronyms

|              |   |
|--------------|---|
| <b>MONRE</b> | Ministry of Natural Resource and Environment                    |
| <b>CCA</b>   | Climate Change Adaptation                                       |
| <b>DAFO</b>  | District Agriculture and Forestry Office                        |
| <b>DoNRE</b> | District Office of Natural Resource and Environment             |
| <b>EbA</b>   | Ecosystem-based Adaptation                                      |
| <b>PAFO</b>  | Provincial Agriculture and Forestry Office                      |
| <b>PoNRE</b> | Provincial Office of Natural Resource and Environment           |
| <b>PPWT</b>  | Provincial Office of Public Works and Transport                 |
| <b>PPI</b>   | Provincial Office of Planning and Investment                    |
| <b>PUDMA</b> | Provincial Office of Urban Development and Management Authority |
| <b>TNA</b>   | Training Needs Assessment                                       |

## Project overview and UN-Habitat component

The project “Building resilience of urban populations with ecosystem-based solutions in Lao PDR” was approved by the Green Climate Fund Board on November 2019 with a GCF grant of US\$ 10 million. The project will be implemented across five years covering four provincial capitals in Lao PDR including Vientiane Capital, Paksan, Savannakhet, and Pakse. The project is executed by the Ministry of Finance (MoF) and Ministry of Natural Resources and Environment (MONRE) with the oversight of the United Nations Environment Programme (UNEP).

The project interventions aim to shift the paradigm of urban flood management in Laos from a limited, hard infrastructure approach towards an integrated approach that enhances climate resilience. This will be achieved by mainstreaming integrated flood management strategies into planning frameworks and implementing urban ecosystem-based solutions (EbS) to decrease climate-induced flooding. The project is implemented in four cities that have been shown to be the most vulnerable to climate change through climate risk modelling and consultations with relevant planning institutions in Laos. Project interventions directly benefit 74,600 people and restore 1,500 ha of urban wetland and stream ecosystems.

UN-Habitat intervention focuses on building institutional capacities under *Component 1. Technical and institutional capacity building to plan, design, implement and maintain integrated urban Ecosystems-based Adaptation (EbA) interventions for the reduction of climate change induced flooding.*

This project phase aims at building and strengthening the capacity of relevant government departments, creating and sharing knowledge of urban EbS in Laos, and engaging with communities and the private sector (Output 1.1).

## Training Needs Assessment

### 1. Objectives

This Training Needs Assessment (TNA) was designed to ensure capacity building activities will close knowledge gaps and meet institutions expectations. It is a first step in the instructional design process of all capacity building activities. This exercise has several objectives:

- Identify the existing knowledge and skills of key stakeholders on climate change adaptation and ecosystems-based adaptation;
- Evaluate training needs by assessing basic knowledge related to climate change, climate change adaptation, nature-based and ecosystem-based adaptation, flood management, urban planning processes, land use and natural assets management, financing and monitoring;
- Set up the baseline for five capacity assessment criteria;
- Identify the most appropriate methodology and techniques to facilitate learning.

For this purpose, participants were asked on urbanisation, climate change awareness, ecosystem-based adaptation (Eba) solutions and flood management, land use and natural assets management.

## 2. Methodology

The TNA is structured in 7 sections, each of them focusing on: Climate Change awareness and planning, Ecosystem-based Adaptation (EbA) solutions and Flood Management, Access to EbA Manuals and ICFMS, Planning and Financing capacity, Monitoring, Urban Planning, land use and natural assets management, Training and evaluation methods. It comprises quantitative and qualitative questions, with a mix of awareness related questions and capacity related questions.

In order to rapidly gather and analyse data, it was agreed to use the Kobo toolbox<sup>1</sup> to collect data.

The TNA was conducted in-person on the 27<sup>th</sup> to 29<sup>th</sup> of June 2022 in Champasak, Savannakhet and Bolikhamxay provinces. Consultations in Vientiane Capital took place on the 18<sup>th</sup> of July 2022.

## 3. Participants

The questionnaire was circulated in person within the 4 targeted provinces (Champasak, Savannakhet, Bolikhamxay and Vientiane Capital). In total, **117 individuals responded to the questionnaire**, and women represented 38% of the participants.

Responders represented both decision-makers (26%) and technical staff (74%) from the following agencies:

- Ministry of Natural Resources and Environment (MONRE);
- Ministry of Planning and Investment (MPI);
- Ministry of Public Works and Transport (MPWT);
- Ministry of Agriculture and Forestry (MoAF);
- Provincial and district governments and other relevant agencies engaged in integrated climate-resilient flood management at the cities of Vientiane, Paksan, Savannakhet and Champasak; and
- Other relevant stakeholders

Tab 1. Participants by province

| Province                 | Male       | Female     | Decision-Maker | Technical staff | Total       |
|--------------------------|------------|------------|----------------|-----------------|-------------|
| <i>Champasak</i>         | 14         | 9          | 7              | 16              | 23          |
| <i>Savannakhet</i>       | 23         | 14         | 6              | 31              | 37          |
| <i>Bolikhamxay</i>       | 19         | 17         | 14             | 22              | 36          |
| <i>Vientiane Capital</i> | 17         | 4          | 3              | 18              | 21          |
| <b>Total</b>             | <b>73</b>  | <b>44</b>  | <b>30</b>      | <b>87</b>       | <b>117</b>  |
| <i>Total %</i>           | <i>62%</i> | <i>38%</i> | <i>26%</i>     | <i>74%</i>      | <i>100%</i> |

<sup>1</sup> <https://www.kobotoolbox.org/>

## Findings

### Section 1: Climate Change awareness and planning

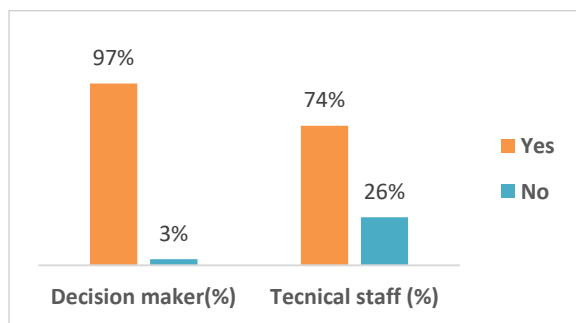
Most of the respondents, especially among technical staff, agreed that their institution is **partially aware** of the current and expected impacts of climate change-induced floods on cities.

Overall, respondents have less **than one year of experience working in climate change**.

Even though the respondents declare that they understand basic concepts of climate change such as hazard, exposure, sensitivity, and vulnerability, 75% of the technical staff and almost all the respondents among the decision makers indicated the **need to further improve their knowledge on climate change**. Only one third had formal training on the topic; the remaining 67% declared that they learnt through media and other sources.

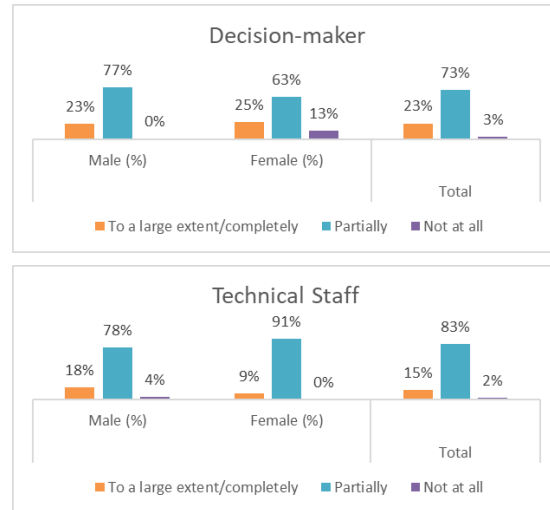
Globally, participants understand **climate change as a global phenomenon**. Only half of them have heard about the Intergovernmental Panel on Climate Change (IPCC) or are aware about climate change policies at national and subnational level.

#### Q. 1.14. Do you feel the need to further improve your knowledge on climate change?

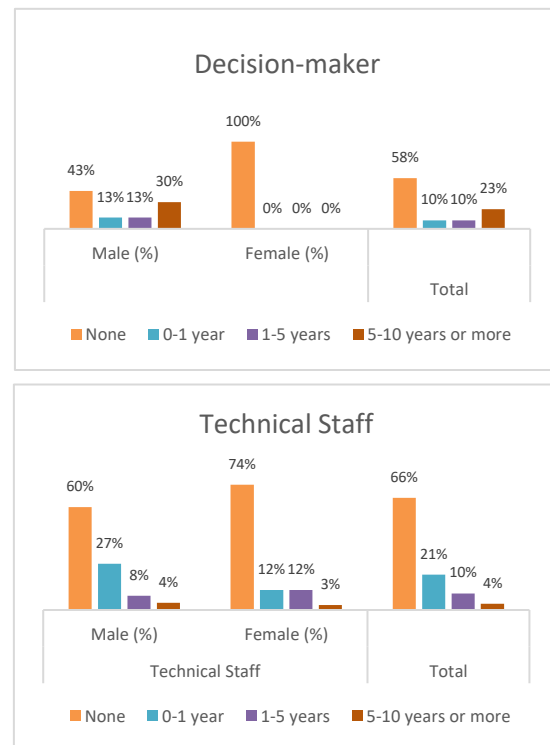


#### Criterion 1:

In your view, is your institution aware of the current and expected impacts of climate change-induced floods on cities?



#### Q. 1.1: Do you have experience working in climate change?



## Section 2: Ecosystem-based Adaptation (EbA) solutions and Flood Management.

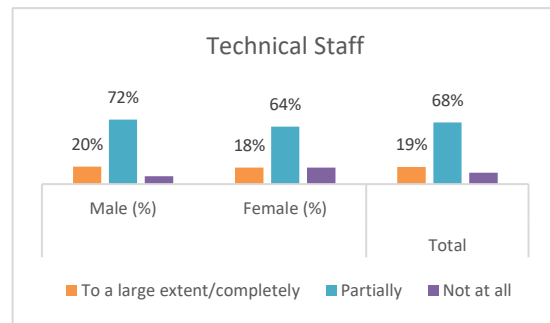
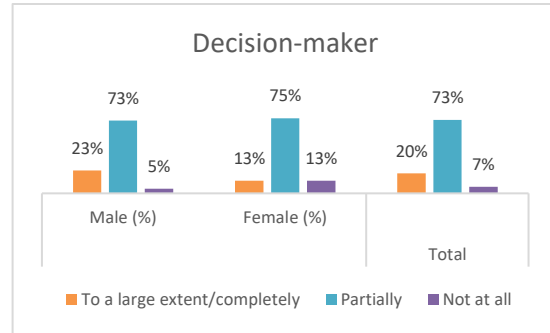
Considering capacities to design, plan for and implement integrated flood management and urban EbA approaches, around 70% of the respondents indicated that their institutions have *partially* the capacity to develop such projects.

Overall, *less than 50% of the participants did participate in previous training on EbA*, and *less than 50% of all participants are familiar with the EbA concept* (48% for decision makers and 30% for technical staff).

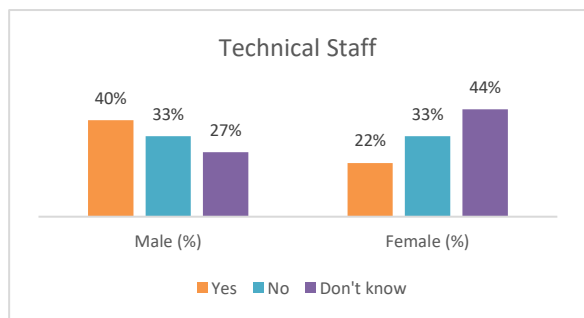
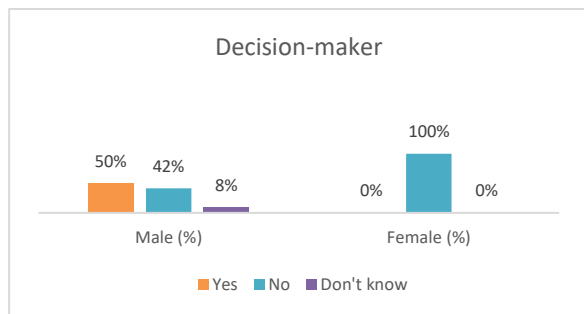
Majority of the respondents *do not think or have no opinion* regarding the fact that nature-based solutions could improve flood management in their cities. However, most of them expressed the need to improve their knowledge on EbA for urban development and disaster risk reduction.

### Criterion 2:

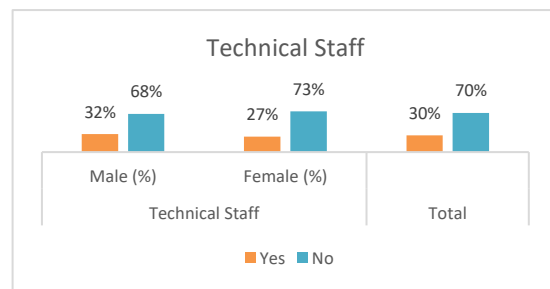
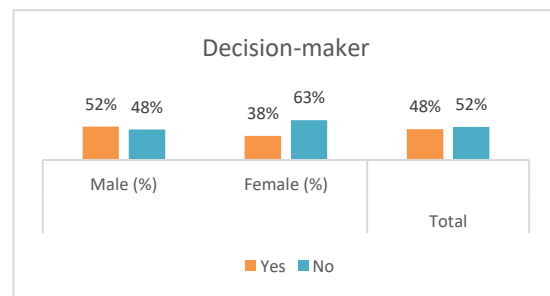
**In your opinion, does your institution have the capacity to design, plan for and implement integrated flood management and urban EbA approaches at city, provincial, and national levels, including coordination among institutions?**



### Q. 2.5. Do you think nature-based solutions can improve flood management in your city/town?



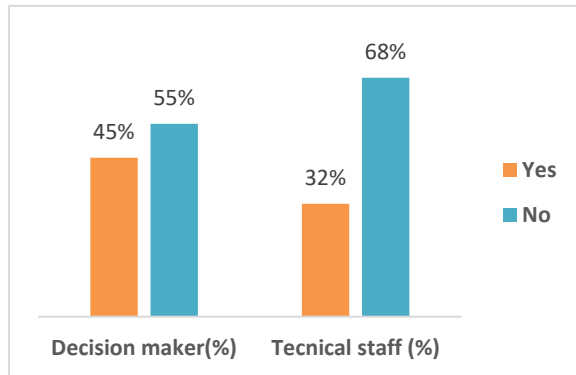
### Q. 2.2. Are you familiar the concept Ecosystem-based Adaptation concept?



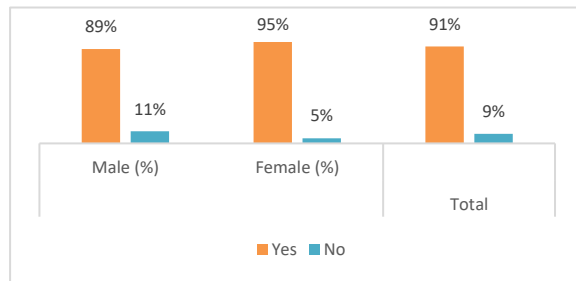
Considering disaster risk reduction, only half of the respondents among the decision makers and 70% of the technical staff **declared not having experience in this domain**. However, 91% of the participants indicated that **they are conscious of the potential risk of flooding in their city/town**.

Finally, as far as methodology is concerned, almost **80% of the respondents have never been involved in risks and vulnerabilities assessments activities**, with higher percentage among technical staff.

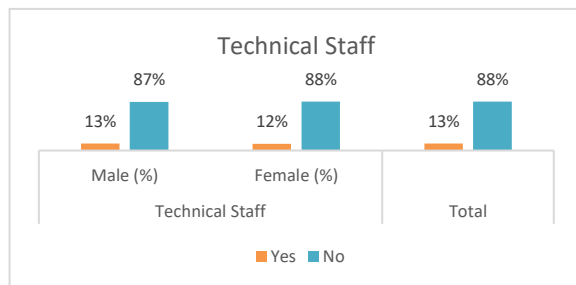
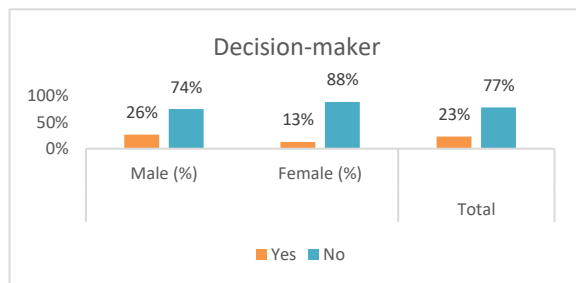
**Q. 2.7. Do you have any experience in Disaster Risk Reduction?**



**Q. 2.9. In your view, do you think floods induced by climate change are likely to affect your city/town?**



**Q. 2.10. Have you ever been engaged in risks and vulnerability assessments activities?**



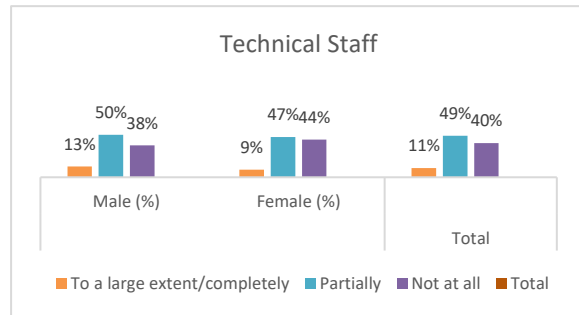
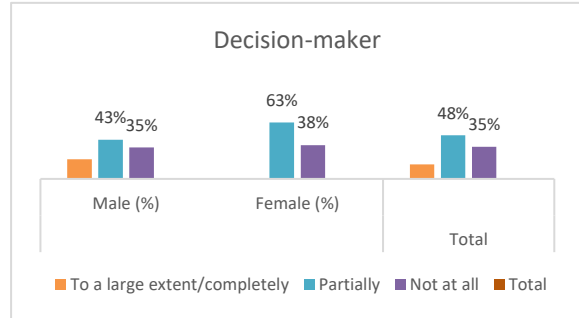


### Section 3. Access to EbA Manuals and ICFMS

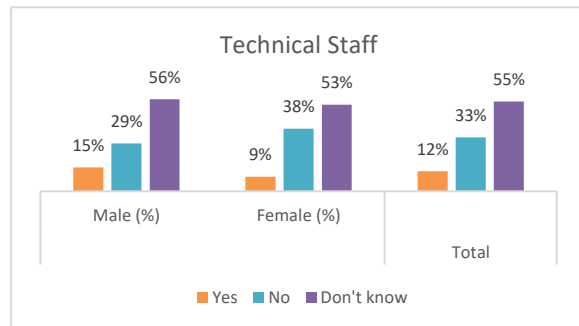
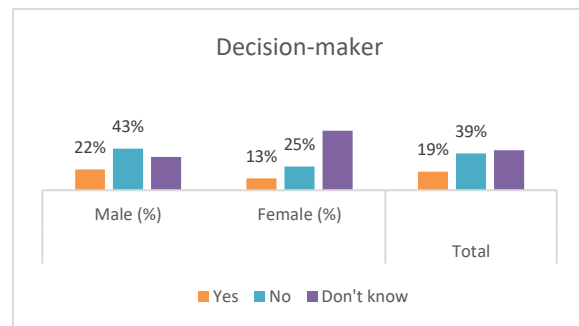
When asking about access to city-level urban EbA manuals, national urban EbA guidelines and ICFMS, around **90% of the respondents indicated that their institution had partial to no access to this documentation.**

The same result was found regarding individual access to these documents.

**Criterion 3:** In your view, does your institution have access to the city-level urban EbA manuals within the integrated climate resilient flood management strategies (ICFMS) and to national urban EbA guidelines?



**Q. 3.1.** Do you have access to the city-level urban EbA manuals within the ICFMS and to national urban EbA guidelines?



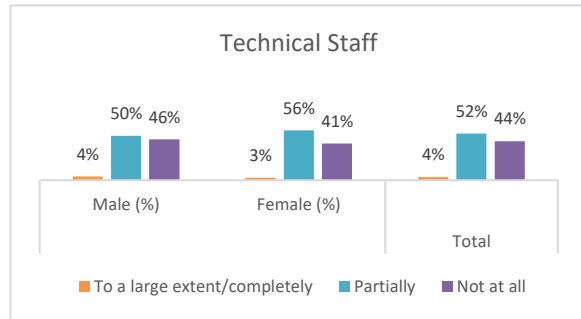
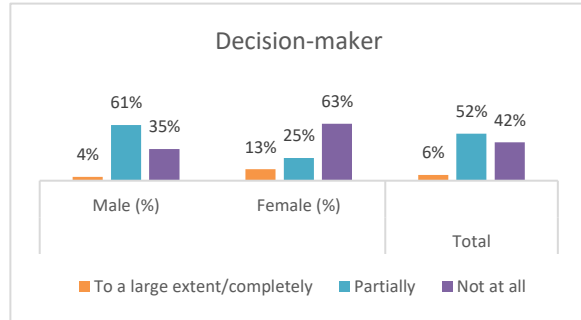
## Section 4. Planning and Financing capacity

Considering Criterion 4, **less than 10% of the respondents indicated that their institution have the capacity to access funding** for integrated flood management and urban EbA interventions.

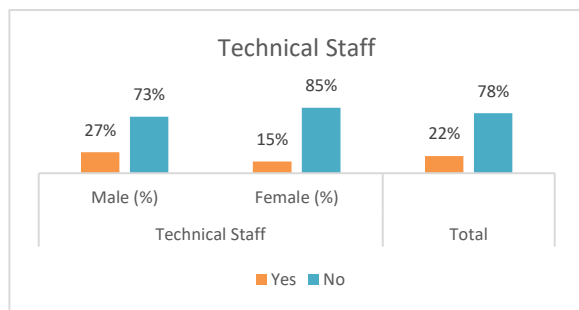
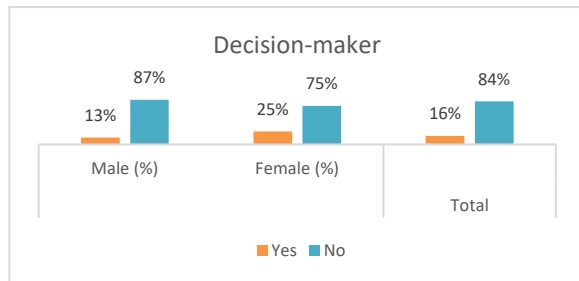
As far as financing capacity is concerned, more than 70% of the respondents indicated that **their department/office do not allocate specific funds for climate change-related activities.**

Regarding planning, overall, 50% of the respondents informed that they department/office has a role/mandate related to climate change. More than 70% of both decision makers and technical staff have also indicated that they are familiar with their department/office programs, projects and activities on climate change adaptation and mitigation.

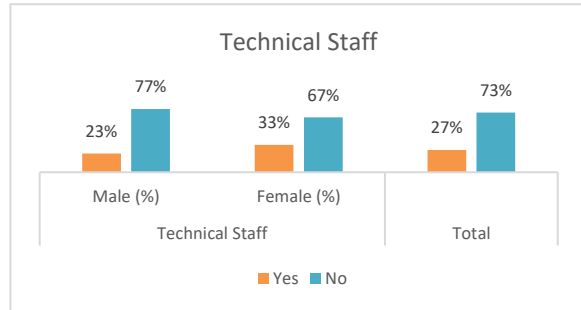
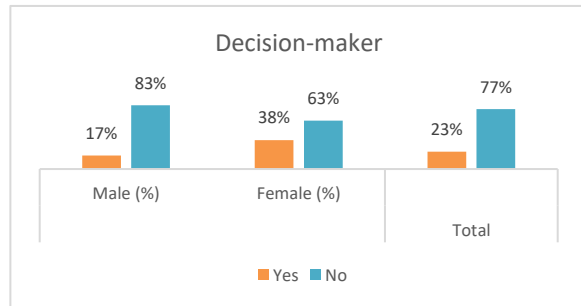
**Criterion 4: In your view, does your institution have the capacity to access funding for integrated flood management and urban EbA interventions? (Awareness of funding sources, technical capacity to develop EbA)**



**Q. 4.4. Does your department/office have any training/capacity building program on climate change adaptation and/or mitigation?**



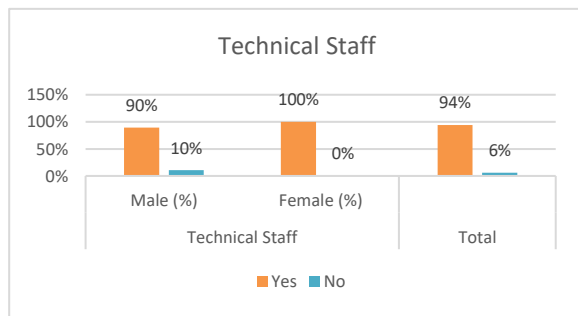
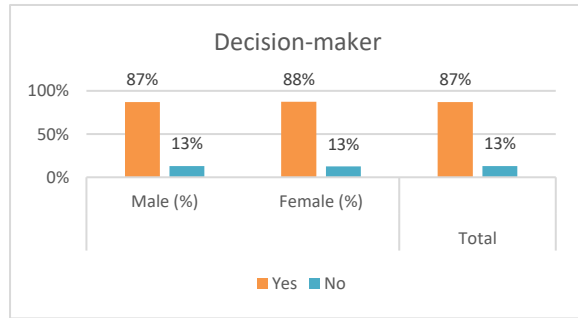
**Q. 4.3. Does your department/office allocate specific funds for climate change-related activities?**



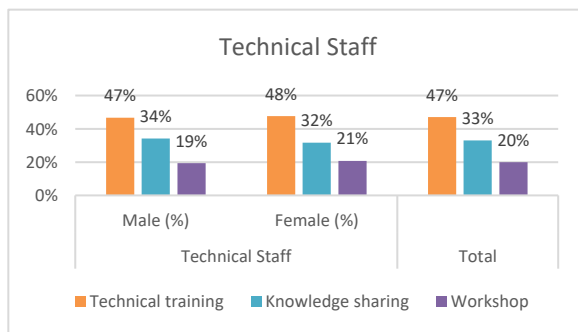
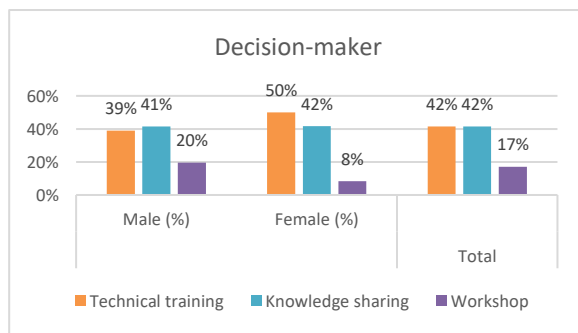
However, more than 90% of the respondents indicated that **their department/office should improve capability of climate change related activities.**

In this regard, decision makers expressed the need to **further develop capacities through technical training and knowledge sharing**, while most of the technical staff informed that they would recommend **developing more technical training.**

**Q. 4.6. In your opinion, does your department/office needs to improve capability of climate change-related activities?**



**Q. 4.7. In your opinion, what actions are most needed to improve capability of climate change-related activities your department/office?**

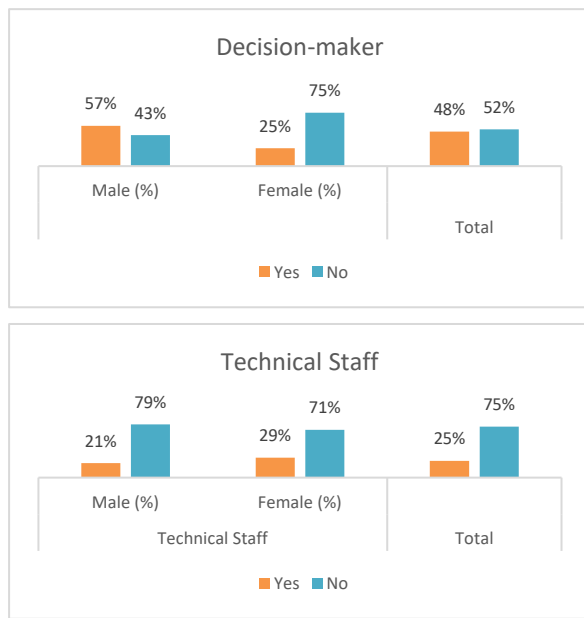


## Section 5. Monitoring and evaluation systems

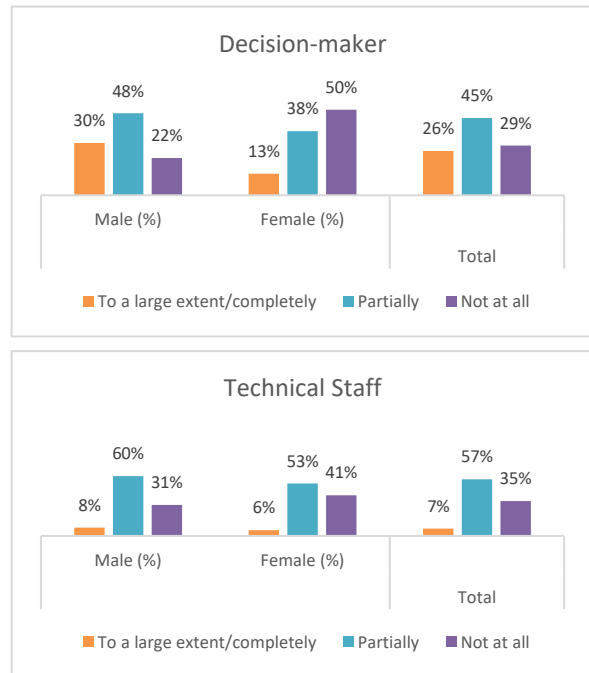
Regarding the institutional capacity on monitoring and reviewing integrated climate resilient flood management strategies (ICFMS), most of the respondents declared that their institutions **have partially or not at all systems in place or capacities**. The same applies for institutional systems to learn from urban EbA interventions that have been implemented through previous initiatives/projects.

In parallel, around **70% of the respondents indicated that they are not familiar with the integrated climate resilient flood management strategies (ICFMS)** (68% of the decision-makers and 72% of the technical staff), and 50% of the decision makers and 75% of the technical staff declared **not having been engaged in flood management activities, projects, or initiatives**.

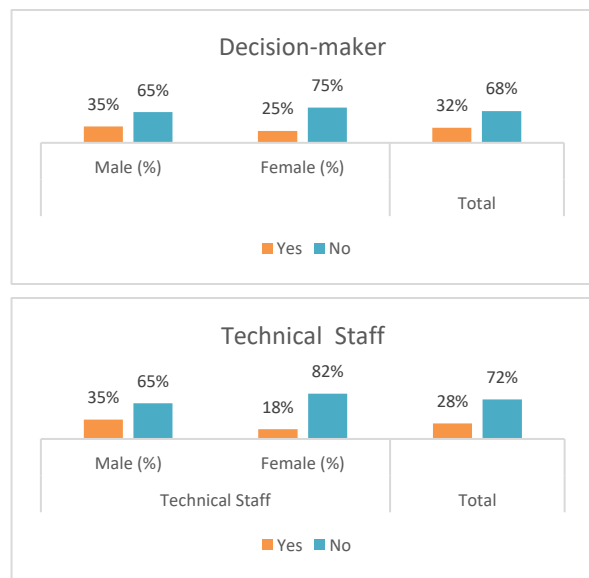
**Q. 5.2. Have you already been engaged in flood management activities/projects/initiatives?**



**Criterion 5: In your opinion, is there evidence of adequate institutional capacities for the continuous monitoring and reviewing of integrated climate resilient flood management strategies (ICFMS) and learning from urban EbA interventions that have been implemented through previous initiatives/projects and the ICFMS?**



**Q. 5.1. Are you familiar with the integrated climate resilient flood management strategies (ICFMS)?**



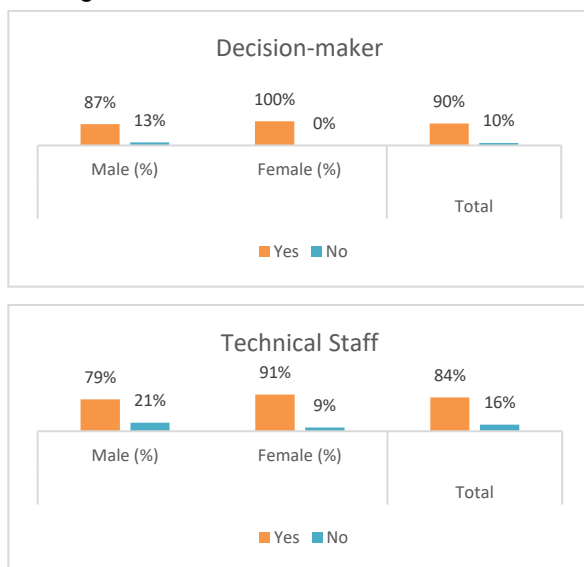
## Section 6. Urban Planning, land use and natural assets management

For Criterion 6, around 30% of the respondents think *their institution has the capacity to actively engage in urban planning/development activities to a large extent, while more than 50% partially.*

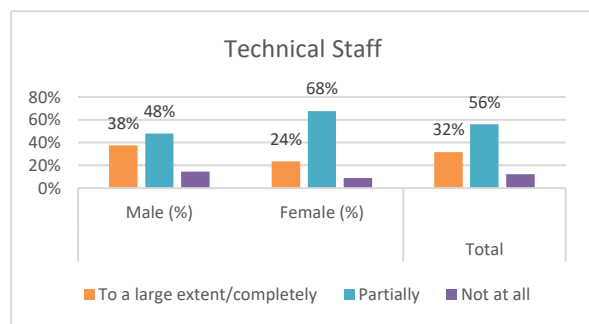
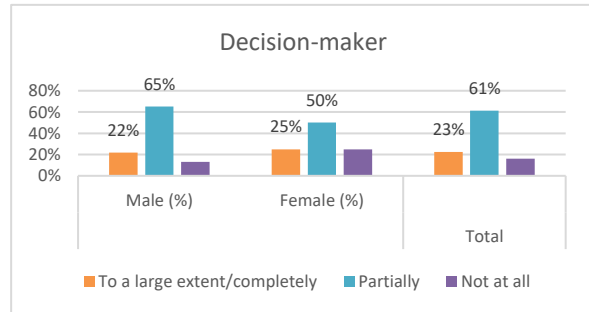
Considering experience working in urban development, the majority of the respondents has **no experience** (61% of decision makers, 74% of technical staff), with higher percentage for women respondents. Most of the respondents have also **no experience in urban and spatial planning**. However, respondents indicated that **they have knowledge/information about urbanization trends in their country.**

While asking about links between spatial planning and climate change, the majority informed that they think both thematic are connected. They also do you think encouraging multi-sectoral approaches at the local level is relevant to improve sustainable development and adapt to climate change.

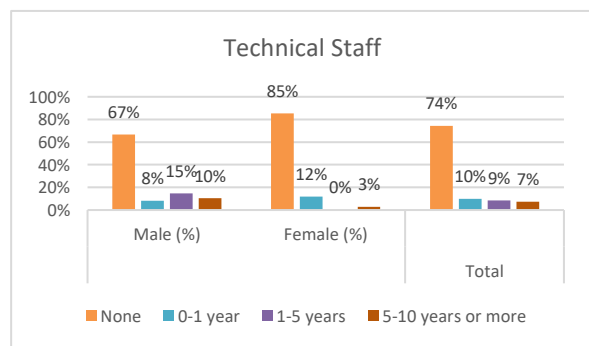
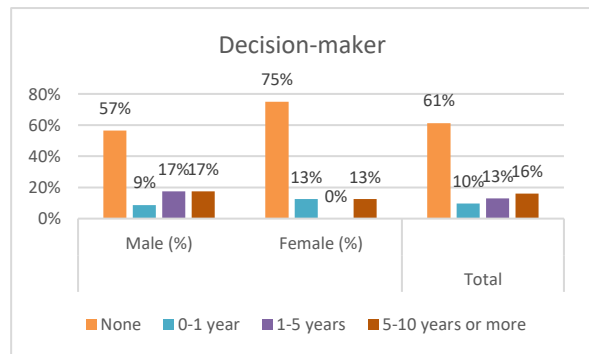
### Q. 6.4. Do you think spatial planning and climate change are related?



### Criterion 6: In your opinion, does your institution have the capacity to actively engaged in urban planning/development activities, integrating environmental and social issues?



### Q. 6.1. Do you have experience working in urban development?

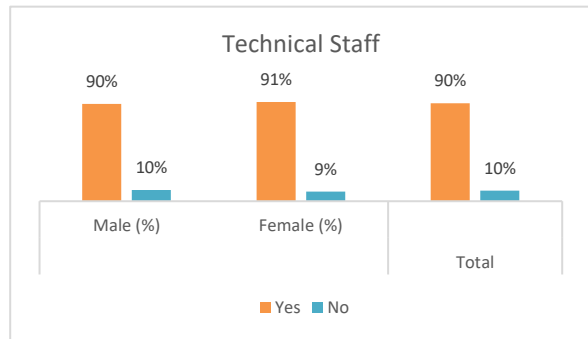
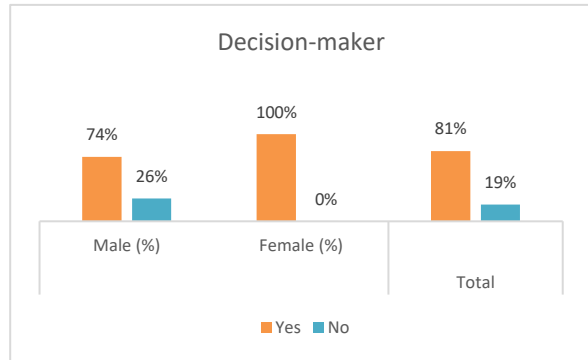


Overall, 80% of the respondents have **never been engaged in activities focusing in land-use**.

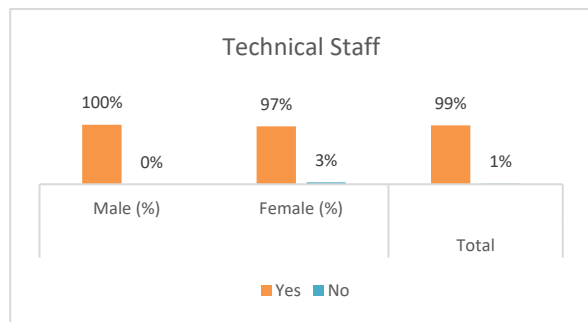
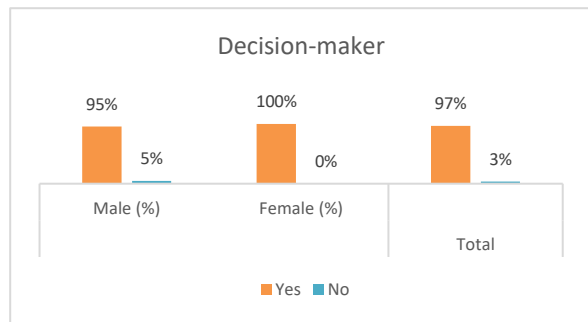
Additionally, more than **90% of the respondents consider wetlands and urban streams valuable for the sustainable development of human settlements**, and that there is a **need to further protect natural streams and rivers in their province, district, or city**.

However, **more than 80% do not have knowledge or information about waterway buffer zones regulations**.

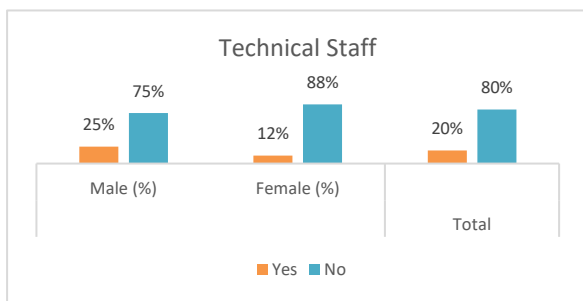
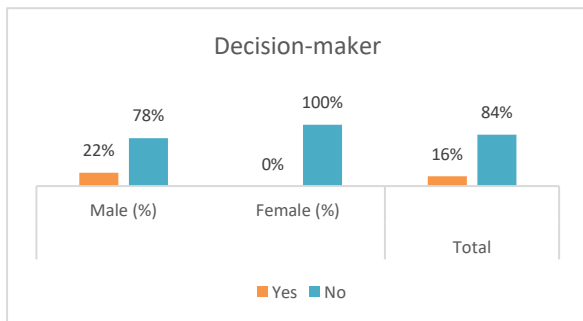
**Q.6.10. In your view, are wetlands and urban streams valuable for the sustainable development of human settlements?**



**Q.6.11. In your opinion, is there a need to further protect natural streams and rivers in your province/district/city?**



**Q.6.12. Do you have knowledge/information about waterway buffer zones regulations?**



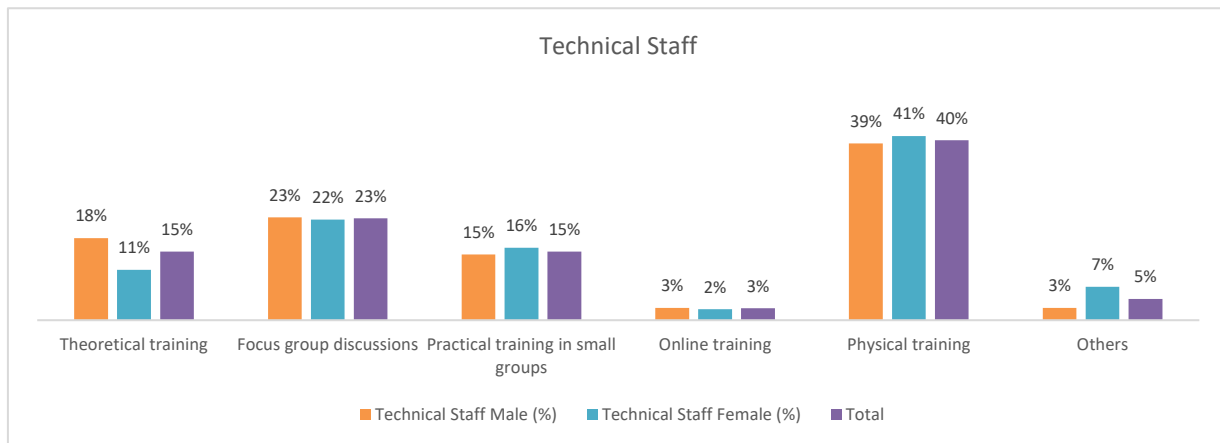
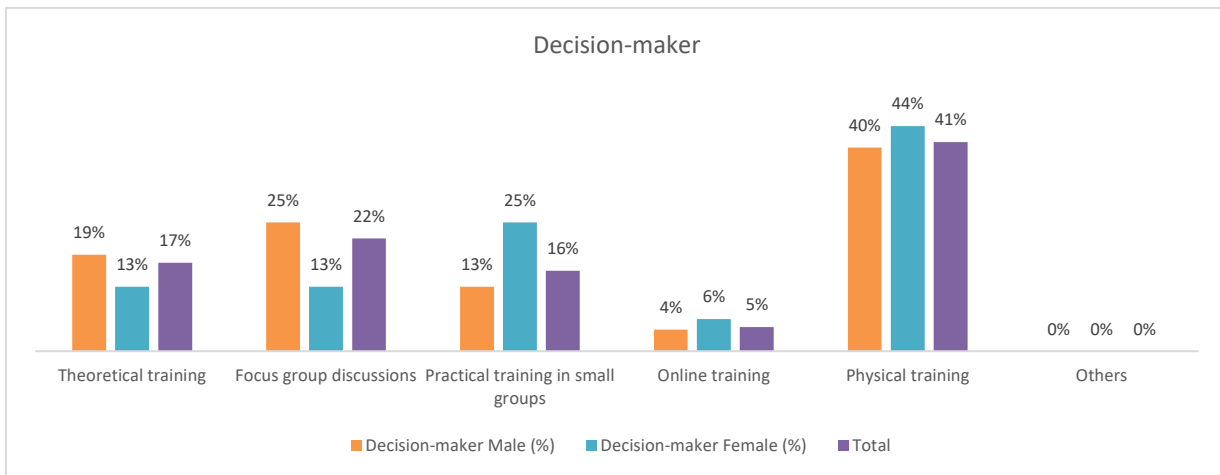
## Section 7. Training Delivery and evaluation method

The preferred training delivery method is **physical/in-person training**. Other training means such as **focus groups discussions and practical training in small groups** were also expressed.

Participants also expressed their interest in the presentation of **case studies** as it will contribute to illustrate technical aspects and provide a better understanding of the topics.

Considering the **evaluation of the impacts of the training**, respondents indicated that they would like to be evaluated at **mid-term, and at the end of the training**.

### Q.7.2. Which training method is the most effective for you?



## Analysis and key recommendations

Overall, results indicate that the **level of awareness and knowledge of climate change and adaptation is still generally low** among the Lao government staff at the provincial and district levels who participated in the survey. Only a few have attended training, workshops, and seminars on these topics, and they have not had further opportunities to use and build upon their new knowledge. Most of the respondents wish to **deepen their knowledge and technical skills through more capacity building activities**. Considering climate change and EbA concepts, as well as urban development aspects, there is a **need to provide extensive information based on scientific and experience from the field**, as most of the respondents indicated that their overall knowledge about these topics come from media.

Furthermore, to some extent, decision-maker participants are more aware of climate change and EbA concepts than technical staff. By anticipation, it was decided that **decision making training will also include technical staff to ensure all participants have the basis on these emerging topics**. At the same time, decision makers have expressed the need to better understand technical aspects of EbA. In this respect, it should be relevant to **invite decision makers to also take part of the technical part of the training. Special attention should also be given to women participants, as their responses demonstrated the need to better understand technical issues**.

Focusing on flood management, a large majority of the respondent informed that their institutions capacity to design and implement flood management and Eba solutions is partial, and almost all of them require further knowledge on Ecosystem based solutions, land-use, buffer zones regulations, and methods such as risks and vulnerabilities assessments to plan and design initiatives.

**Financing is also a key item to address, and monitoring and evaluation systems should also be covered by the training as most of the participants indicated the absence of such mechanisms.**

Around 70% of the respondents informed that they are not familiar with the integrated climate resilient flood management strategies (ICFMS), and do not have a full access to national guidelines or related documents. In this respect, the project team should **ensure all documents are available to national, provincial and district levels, and translated into Lao**.

As the respondents are aware and recognize the importance of including spatial planning and multisectoral approaches in climate change-related activities, they also indicated that they do not have the experience nor the knowledge to apply it. It is therefore recommended to **build the case for better linkages between spatial planning, climate change action and investment planning**.

Finally, the preferred method to deliver capacity building activities is **in-person training, with focus groups discussions and the use of case studies**. Respondents also indicated that they would like to be evaluate at mid-term and at the end of the training to ensure their capacities have been extended. The training team will therefore consider these recommendations in the development of the activities.



## Key recommendations by training sections/topics

### ***Climate change awareness and planning:***

- Strengthening current and expected impacts of climate change induced floods in cities.
- Capturing basic knowledge on climate change, and related concepts.

### ***EbA concept and flood management:***

- Extensively build capacities on EbA as there is a general lack of knowledge, especially for technical staff.
- Building the case for EbA to improve flood management at the city level.
- Demonstrating the linkages between EbA, urban planning and disaster risk reduction.

### ***Access to EbA Manuals and ICFMS:***

- Ensuring all documentation are available.
- Ensuring materials developed are both translated into Lao and available.

### ***Planning and Financing capacity***

- Informing on financing opportunities and economic and social co-benefits of EbA solutions.
- Emphasizing the need for investment planning and climate change action, especially with regards to adaptation.
- Opening the technical training component to both decision makers and technical staff, as decision makers have expressed the need for technical training on topics covered.

### ***Monitoring and evaluation systems***

- Building the case for the development of monitoring and evaluation systems
- Demonstrating the importance of monitoring for flood management and EbA interventions through case studies.

### ***Urban planning, land use and natural assets management***

- Including an extensive section on urban development and planning, as well as spatial planning (defining, explaining processes).
- Building the case to demonstrate how spatial planning and climate change are related.
- Informing on land use importance, and waterway buffer zones information/regulations.

### ***Training delivery and evaluation method***

- Developing the activities to be delivered in-person with the use of case studies and groups discussions.
- Preparing and evaluating the impacts of the capacity building activities during the training, and at the end.

## ANNEXES

### ANNEX 1. Participants lists

#### Champasak province

|    | Name                         | Organization                                 | Position                      | Contact Number |
|----|------------------------------|--|-------------------------------|----------------|
| 1  | Mr. Bounchiem Nilavone       | PoNRE  | Deputy Director of Department | 020 52375676   |
| 2  | Mr Kindalong                 | Provincial Industry and Commerce             | Technical Officer             | 020 97665777   |
| 3  | Ms. Davone Siengsavath       | Provincial Industry and Commerce             | Technical Officer             | 020 56246073   |
| 4  | Mr Sithideth phannavong      | PoNRE  | Technical Officer             | 020 22741444   |
| 5  | Ms. Ammala Nilaxay           | PoNRE  | Technical Officer             | 020 51988989   |
| 6  | Ms Sounthala Sanalangsy      | PoNRE  | Technical Officer             | 020 99723732   |
| 7  | Mr. Phetdavan Souvannaphasy  | PoNRE  | Technical Officer             | 020 5569844    |
| 8  | Mr Soudalay Thamavongsa      | PoNRE  | Technical Officer             | 020 22737411   |
| 9  | Mr Phoutvilay Maithichit     | DoNRE  | Deputy Director of Division   | 020 56886111   |
| 10 | Mr. Khamtoun Bounmee         | DoNRE  | Technical Officer             | 020 22278498   |
| 11 | Mr Chaisavanh Chanvanvankham | PLYU   | Deputy Director of Division   | 020 96608171   |
| 12 | Ms. Somai Phommajone         | PPWT   | Technical Officer             | 020 55564568   |
| 13 | Mr. Vathadeth Kinphounsaou   | DPWT   | Deputy of Division            | 020 22339993   |
| 14 | Ms. Davone Siengmany         | Provincial Industry and Commerce             | Technical Officer             | 020 56246073   |
| 15 | Ms. Sisomphou Kongsayaphoum  | Provincial Agriculture and Forestry          | Technical Officer             | 020 98991202   |
| 16 | Mr. Sinnakhone Amphayvong    | City Management Office                       | Technical Officer             | 020 22227256   |
| 17 | Ms. Sisomphone Theppalak     | City Management Office                       | Deputy of Division            | 020 98861902   |
| 18 | Mr. Anongcha Philavong       | City Management Office                       | Technical Officer             | 020 91711659   |
| 19 | Ms. Vilavan Keokhounmueng    | PoNRE  | Technical Officer             | 020 99825468   |
| 20 | Ms. Champhai Khambousy       | PoNRE  | Director                      | 020 22275873   |
| 21 | Mr. Bounnath Soomphinamphady | City Management Office                       | Deputy of Division            | 020 55654636   |
| 22 | Ms. Vankham Siensavang       | PLWU   | Deputy                        | 020 93989989   |
| 23 | Ms Vilay Huengsy             | Parkse City University LWU                   | Director                      | 022 23655353   |
| 24 | Mr. Champa Sayachack         | Parkse city office                           | Deputy                        | 020 58207788   |
| 25 | Ms. Inthanom Heungsak        | PLWU   | Director                      | 020 55973302   |
| 26 | Ms. Vany Siengkhapkeo        | Parkse city Cultivation and animal husbandry | Technical Officer             | 020 22264599   |
| 27 | Mr. Phetdavan Souvannaphasy  | PoNRE  | Technical Officer             | 020 55069844   |
| 28 | Mr. Anousone Sinimmoungkhoun | Parkse DoNRE                                 | Deputy                        | 020 98088810   |

|    |                              |                                   |                              |              |
|----|------------------------------|-----------------------------------|------------------------------|--------------|
| 29 | Ms. Souphakhone Sisanaboun   | Provincial Agriculture and Forest | Technical Officer            | 020 55410102 |
| 30 | Mr. Somvang Chanthackvong    | Provincial Agriculture and Forest | Technical Officer            | 020 94222124 |
| 31 | Mr. Santhi Khounphasert      | DoNRE Parkse                      | Deputy Officer               | 020 28060111 |
| 32 | Mr. Khamkone Soulivong       | PPWT                              | Deputy Officer               | 020 55835270 |
| 33 | Mr. Dr. Xayasith Vilaphat    | PoNRE                             | Deputy Director              | 020 98989889 |
| 34 | Mr. Soukdavone Sienthavisouk | PoNRE                             | Technical Officer            | 020 95381588 |
| 35 | Mr. Bounphone Pouyvilay      | PoNRE                             | Deputy Director              | 020 92659789 |
| 36 | Ms. Souknida Sotuki          | Urban Ebs project/Dcc             | GMO                          | 020 57684466 |
| 37 | Ms. Bousavan Auckhamakkhet   | Urban Ebs project/ MoNRE Dcc      | Assistant                    | 020 23495558 |
| 38 | Mr. Sakunsith Sengkhamyong   | GCF Readiness Project/ MoNRE DCC  | Project Manager              | 020 56862922 |
| 39 | Mr. Vanavong Manyvong        | MoNRE/DCC                         | Technical Officer            | 020 22245532 |
| 40 | Mr. Phengphone Khamseansouk  | UN-HABITAT                        | National Project coordinator | 020 22226009 |

## Savannakhet Province

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| 1  | Mr. Chanpheng Dalavong         | PoNRE                                 | Deputy Director of Department | 020 55229888   |
| 2  | Mr Inpasith Sihalad            | PoNRE                                 | Technical Officer             | 020 55959329   |
| 3  | Mr. Chonvilay Seannamoueng     | Provincial Agriculture and Forestry   | Technical Officer             | 020 55866341   |
| 4  | Ms. Nanthida sylavong          | DoNRE Kaisone City                    | Technical Officer             | 020 98555090   |
| 5  | Ms. Chanlounny Keolangsy       | PoNRE                                 | Technical Officer             | 020 97224714   |
| 6  | Ms Sieng Syvisak               | Cultivation and animal husbandry      | Technical Officer             | 020 22313126   |
| 7  | Mr. Khampha Fueyphilayong      | Agriculture and Forestry Kaisone City | Head of Division              | 020 5569844    |
| 8  | Ms. Choulaphone Konthavong     | Agriculture                           | Technical Officer             | 020 98666224   |
| 9  | Ms. Souvannaly thavonvong      | PoNRE                                 | Deputy Director of Division   | 020 52277117   |
| 10 | Ms. Hathaphone Liepvisayyavong | DLWU Kaisone City                     | Technical Officer             | 020 99732929   |
| 11 | Ms. Pankham Souvannalee        | PoNRE                                 | Deputy Director of Division   | 020 22666556   |
| 12 | Mr. Bounna Inthachak           | PPWT                                  | Technical Officer             | 020 56209655   |
| 13 | Mr. Chanthamone Lasavong       | PoNRE                                 | Technical Officer             | 020 56945353   |
| 14 | Mr. Siengphachan Kongsykhai    | DPWT Kaison                           | Technical Officer             | 020 7865666    |
| 15 | Ms. Xaysavath Sithichak        | Province Agriculture and Forestry     | Technical Officer             | 020 99113111   |
| 16 | Mr. Atsana Phongvilay          | PPWT                                  | Technical Officer             | 020 99727775   |

|    |                                |   |                              |               |
|----|--------------------------------|---|------------------------------|---------------|
| 17 | Ms. Phengsavath Luangsavath    | PoNRE                                     | Technical Officer            | 020 98184132  |
| 18 | Mr. Xayphanya Luangnikhone     | City Management Office                    | Technical Officer            | 020 98323506  |
| 19 | Mr. Bounloy Siphonesay         | Khammaban                                 | Technical Officer            | 020 77200700  |
| 20 | Ms. Sisavath Chimmala          | PLWU                                      | Technical Officer            | 020 937337009 |
| 21 | Mr. Sibounhou Bouapha          | City Management Office                    | Deputy of Division           | 020 58397578  |
| 22 | Ms. Daosathid Phiengphetlavane | PLWU                                      | Deputy                       | 020 54065925  |
| 23 | Ms. Ilatda Phengphetlavan      | PLWU                                      | Technical Officer            | 022 98357551  |
| 24 | Mr. Oudom Naosavath            | DoNRE Kaison City                         | Deputy                       | 020 28950306  |
| 25 | Mr. Keonuphet Phommachan       | Province Cultivation and animal husbandry | Technical Officer            | 020 99309800  |
| 26 | Mr. Khongsaboun Latsavong      | PoNRE                                     | Technical Officer            | 020 59442355  |
| 27 | Ms. Phoutdavone Chumphanphakdy | DoNRE Kaisone City                        | Technical Officer            | 020 55882128  |
| 28 | Ms. Inphan Netthavongsa        | PPWT                                      | Technical Officer            | 020 55641662  |
| 29 | Mr. Bantavan Sayamongkhoun     | City Management Office                    | Technical Officer            | 020 54963895  |
| 30 | Mr. Phobphadid Navientane      | DoNRE Kaisone City                        | Technical Officer            | 020 77597349  |
| 31 | Ms. Southada Phanthalath       | Province Planing and investment Office    | Deputy Officer               | 020 99790496  |
| 32 | Mr. Khamzone Souvannalath      | Khammaban                                 | Officer                      | 020 54581511  |
| 33 | Mr. Souvan Voravongsa          | DoNRE Kaisone City                        | Technical Officer            | 020 55957406  |
| 34 | Mr. Mesaysak Khembouthavong    | City Cultivation and animal husbandry     | Technical Officer            | 020 55821697  |
| 35 | Mr. Phoungsouvannavongsa       | City Management Office                    | Deputy Director              | 020 95234544  |
| 36 | Mr. Sengchan Keobouchieng      | PPWT                                      | Technical Officer            | 020 99844355  |
| 37 | Ms. Phouthidavan Chanthavong   | PPWT                                      | Technical Officer            | 020 22780456  |
| 38 | Ms. Souknida Sothuki           | Urban Ebs project/Dcc                     | GMO                          | 020 57684466  |
| 39 | Mr. Lada Hasanong              | PoNRE                                     | Technical Officer            | 020 28762435  |
| 40 | Mr. Bounma Sisombut            | ITece                                     | Technical Officer            | 020 99950100  |
| 41 | Mr. Vongdavan Insysiengmai     | PoNRE                                     | Technical Officer            | 020 77745111  |
| 42 | Mr. Anukhone Phothilath        | PoNRE                                     | Technical Officer            | 020 91961983  |
| 43 | Ms. Sithaphone Mounlaphasith   | PoNRE                                     | Technical Officer            | 020 54411115  |
| 45 | Mr. Keoudone Phetdavong        | PoNRE                                     | Technical Officer            | 020 28595696  |
| 46 | Mr. Sakhounsith Sengkhamyong   | GCF Readiness Project/ MoNRE DCC          | GMO                          | 020           |
| 47 | Ms. Bousavan Auckhamakkhet     | Urban Ebs project/ MoNRE Dcc              | Assistant                    | 020           |
| 48 | Mr. Sakunsith Sengkhamyong     | GCF Readiness Project/ MoNRE DCC          | Project Manager              | 020 56862922  |
| 49 | Mr. Vanavong Manyong           | MoNRE/DCC                                 | Technical Officer            | 020 22245532  |
| 50 | Mr. Phengphone Khamseansouk    | UN-HABITAT                                | National Project coordinator | 020 22226009  |

**Bolikhamxay Province**

|    | <b>Name</b>                 | <b>Organization</b>                       | <b>Position</b>             | <b>Contact Number</b> |
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| 1  | Mr. Somsanguan Souvannalath | PoNRE                                     | Director of Department      | 020 22337003          |
| 2  | Ms. Malaphean Nedsavath     | Provincial Agriculture and Forestry       | Technical Officer           | 020 23403274          |
| 3  | Mr. Somvang Keovongvichit   | Provincial Agriculture and Forestry       | Technical Officer           | 020 55540191          |
| 4  | Mr. Thonglith Phongsynoun   | PPWT                                      | Technical Officer           | 020 22822288          |
| 5  | Ms. Viengkham Yotbounhueng  | PoNRE                                     | Technical Officer           | 020 59080213          |
| 6  | Ms. Bounma Phommany         | PoNRE                                     | Technical Officer           | 020 22821313          |
| 7  | Ms. Nanthanith Siphompakdee | PoNRE                                     | Head of Division            | 020 22112323          |
| 8  | Ms. Khounkham phommalin     | PoNRE                                     | Technical Officer           | 020 55442585          |
| 9  | Mr. Vilasak Duangsone       | Provincial Agriculture and Forestry       | Deputy Director of Division | 030 9022221           |
| 10 | Ms. Vongchan Sissomboun     | Provincial Trade Union                    | Deputy Director of Division | 020 23410009          |
| 11 | Ms. Vongchan Sysoboun       | Provincial Trade Union                    | Technical Officer           | 020 22331788          |
| 12 | Mr. Bounida Chanthalangsy   | PPWT                                      | Technical Officer           | 020 54156559          |
| 13 | Ms. Phouvern Sihalah        | Provincial Trade Union                    | Technical Officer           | 020 22110199          |
| 14 | Ms. Dokphout Chakvongsa     | UDAA                                      | Technical Officer           | 020 28878499          |
| 15 | Ms. Bousieng Thepkhamhieng  | Provincial Office                         | Head Officer                | 020 96888855          |
| 16 | MS. Khambai Borliphon       | PPWT                                      | Technical Officer           | 020 95936911          |
| 17 | Mr. Vanmany Keomanivone     | Provincial Agriculture and Forestry       | Technical Officer           | 020 99509156          |
| 18 | Ms. Duangta Lamboumanyvong  | PoNRE                                     | Technical Officer           | 020 99144077          |
| 19 | Mr. Sounphet Thasanon       | PPWT                                      | Technical Officer           | 020 55990049          |
| 20 | Ms. Manivan Phapfong        | PLWU                                      | Technical Officer           | 020 22100635          |
| 21 | Mr. Bounlome Phiengtoma     | Provincial Agriculture and Forestry       | Deputy of Division          | 020 97290403          |
| 22 | Ms. Viengkeo Xayphakdee     | PoNRE                                     | Deputy                      | 020 54987771          |
| 23 | Ms. Phaivane Mithivong      | PoNRE                                     | Technical Officer           | 022 22103998          |
| 24 | Mr. Bounpheng Mahavong      | PoNRE                                     | Deputy                      | 020 2282751           |
| 25 | Mr. Visouth Phanthalasy     | PoNRE                                     | Technical Officer           | 020 22117744          |
| 26 | Mr.Chithasone Soulixay      | UDAA                                      | Technical Officer           | 020 22334688          |
| 27 | Ms. Souksavan Syhalath      | Provincial Agriculture and Forestry       | Technical Officer           | 020 59418567          |
| 28 | Ms. Khamfun Khammoune       | Provincial Agriculture and Forestry       | Technical Officer           | 020 97414333          |
| 29 | Ms. Sykhone Phommachan      | Provincial Agriculture and Forestry       | Technical Officer           | 020 55652430          |
| 30 | Mr. Siengthong Souvsnnslath | DoNRE                                     | Technical Officer           | 020 22166672          |
| 31 | Ms. Khamphoun Phanyanouvong | Parksan District Office                   | Deputy Officer              | 020 22337888          |
| 32 | Mr. Bouthong Chanthavong    | DPWT                                      | Officer                     | 020 22332282          |
| 33 | Mr. Bounchan Anulak         | Parksan District Agriculture and Forestry | Technical Officer           | 020 22403929          |
| 34 | Ms. Alitha Phongodom        | DoNRE                                     | Technical Officer           | 020 29999371          |

|    |                               |   |                              |              |
|----|-------------------------------|---|------------------------------|--------------|
| 35 | Mr. Thongleun Bounhome        | UDAA                                      | Deputy Director              | 020 98876666 |
| 36 | Mr. Yoth Borlivan             | UDAA                                      | Technical Officer            | 020 99992300 |
| 37 | Ms. Boudasy Chanthavong       | DoNRE                                     | Technical Officer            | 020 95656161 |
| 38 | Ms. Yenphapha Vilavong        | DoNRE                                     | Head of Officer              | 020 23335320 |
| 39 | Dr. Somnuek Keomany           | UDAA                                      | Technical Officer            | 020 22338779 |
| 40 | Mr. Kheovongdeun Phanthanusy. | PoNRE                                     | Technical Officer            | 020 22337548 |
| 41 | Ms. Buasavan Aukhamakhet      | PoNRE                                     | Technical Officer            | 020 23495558 |
| 42 | Mr. Southi Philaxay           | DoNRE                                     | Technical Officer            | 020 59635695 |
| 43 | Ms. Vonvilay Sombutmounvong   | PoNRE                                     | Technical Officer            | 020 99992122 |
| 44 | Mr. Channavong Manyvong       | Parksan District Agriculture and Forestry | Technical Officer            | 020 22245532 |
| 45 | Ms. Nidaphone Xayyaphong      | Provincial Planning and Investments       | Technical Officer            | 020 55262555 |
| 46 | Mr.Khamphasert Keomany        | PoNRE                                     | Technical Officer            | 020 22339666 |
| 47 | Ms. Souknida Sotuki           | Urban Ebs project/Dcc                     | GMO                          | 020 57684466 |
| 48 | Mr. Sakunsith Sengkhamyong    | GCF Readiness Project/ MoNRE DCC          | Project Manager              | 020 56862922 |
| 49 | Mr. Vanavong Manyvong         | MoNRE/DCC                                 | Technical Officer            | 020 22245532 |
| 50 | Mr. Phengphone Khamseansouk   | UN-HABITAT                                | National Project coordinator | 020 22226009 |

## Vientiane Capital

|    | Name                     | Organization                | Position                    | Contact Number |
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| 1  | Mr.Soulisak Phanthavong  | PoNRE                       | Director                    | 020 56516639   |
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| 3  | Mr. Sonephet Vongpadith  | UDAA                        | Technical Officer           | 020 55102088   |
| 4  | Mr. Veephan Manyvong     | PPWT                        | Technical Officer           | 020 22224554   |
| 5  | Ms. Somphong Sonebaikham | LWU VT                      | Technical Officer           | 020 56635699   |
| 6  | Ms. Daovone Sythavong    | PoNRE                       | Technical Officer           | 020 2200759    |
| 7  | Ms. Mina Hupdougmla      | PoNRE                       | Technical Officer           | 020 56560303   |
| 8  | Ms. Kosy Symany          | PoNRE                       | Technical Officer           | 020 55909695   |
| 9  | Mr.Bandith Lathanavong   | DoNRE Saythany              | Deputy Director of Division | 02022203688    |
| 10 | Ms. Phanai Inthavong     | LWU VT                      | Deputy Director of Division | 020 55993661   |
| 11 | Ms. Khanthaly Syvongsay  | VT Agriculture and Forestry | Technical Officer           | 020 599220285  |
| 12 | Mr. Onkeo Phiengvongsa   | VT Agriculture and Forestry | Technical Officer           | 020 94488179   |
| 13 | Ms. Simmaly Thipasay     | DoNRE Saythany              | Technical Officer           | 020 55288323   |
| 14 | Ms. Sommai Soulivong     | UDAA                        | Technical Officer           | 020 55707247   |

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| 15 | Mr. Khanysone Sombounkhan    | VT Agriculture and Forestry       | Head Officer                 | 020 55403080 |
| 16 | Ms. Phomme Phimmasone        | VT Agriculture and Forestry       | Technical Officer            | 020 98988336 |
| 17 | Mr. Chanthaphone Phouthisan  | VT PWT                            | Technical Officer            | 020 22092080 |
| 18 | Ms. Phet Thiphavong          | VT Agriculture and Forestry       | Technical Officer            | 020 55999773 |
| 19 | Ms. Maipa Phalao             | DoNRE Saythany                    | Technical Officer            | 020 28782020 |
| 20 | Ms. Vithouchai Phouthisalath | Saythany District Office          | Technical Officer            | 020 59665096 |
| 21 | Mr. Bounleu Southammavong    | VT Agriculture and Forestry       | Deputy of Division           | 020 55933633 |
| 22 | Mr. Thosent Phetvongsa       | VT PWT                            | Technical Officer            | 020 54142757 |
| 23 | Ms. Buasavan Auckhamakkhet   | Assistant of project coordination | Technical Officer            | 022 23495558 |
| 24 | Mr. Vilakhone Xienmanyong    | VT Lao Trade Unoin                | Technical Officer            | 020 55701182 |
| 25 | Mr. Lithiphong Manosome      | VT Lao Trade Unoin                | Technical Officer            | 020 99323222 |
| 26 | Mr. Thinakhone Phimmavong    | VT PWT                            | Technical Officer            | 020 22829099 |
| 27 | Mr. Sommathi Seanchonghuk.   | PoNRE                             | Technical Officer            | 020          |
| 28 | Ms.Souknida Sotuki           | Urban Ebs project/Dcc             | GMO                          | 020 57684466 |
| 29 | Mr. Sakunsith Sengkhamyong   | GCF Readiness Project/ MoNRE DCC  | Project Manager              | 020 56862922 |
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| 31 | Mr. Phengphone Khamseansouk  | UN-HABITAT                        | National Project coordinator | 020 22226009 |

## ANNEX 2. Questionnaire

### SECTION 1. Climate Change awareness and planning

**Criterion 1: In your view, is your institution aware of the current and expected impacts of climate change-induced floods on cities?**

- Not at all*
- Partially*
- To a large extent/completely*

1.1. Do you have experience working in climate change?

- None*
- 0-1 year*
- 1-5 years*
- 5-10 years or more*

1.2. Can you rate your awareness on climate change?

- Scale 0 to 10*

1.3. Do you see climate change as a stand-alone issue (only at the local level/only affecting one sector) or as a global issue encompassing all scales (local, national, regional, global) and sectors?

- Single issue*
- Global issue*

1.4. In your views, what are the causes of climate change?

- Short answer*

1.5. Can you cite 3 consequences of climate change in Lao PDR ?

- Short answer*

1.6. Do you know if climate change is likely to affect your city/town?

- Yes*
  - Please explain.*
- No*

1.7. How did you learn about these climate change impacts? (training, media, word of mouth) [Choose more than one, if relevant]

- Media*
- Training*
- Others*

1.8. Are you familiar with the concept of vulnerability?

- Yes*
- No*

1.9. Are you familiar with the concept of exposure?

- Yes*
- No*

1.10. Are you familiar with the concept of sensitivity?

- Yes*
- No*

1.11. Are you familiar with the concept of hazards?

- Yes*
- No*



- 1.12. Have you heard of the Intergovernmental Panel on Climate Change (IPCC)?
- *Yes*
  - *No*
- 1.13. Can you rate your awareness on climate policies in Lao PDR at the national and sub-national level?
- *Scale 0 to 10*
- 1.14. Do you feel the need to further improve your knowledge on climate change?
- *Yes [If yes, please write down your areas of interest]*
  - *No*

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## SECTION 2. Ecosystem-based Adaptation (EbA) solutions and Flood Management

**Criterion 2:** In your opinion, does your institution have the capacity to design, plan for and implement integrated flood management and urban EbA approaches at city, provincial, and national levels, including coordination among institutions?

- *Not at all*
  - *Partially*
  - *To a large extent/completely*
- 2.1. Did you attend trainings on Ecosystem-based Adaptation solutions through the ongoing project "Building climate resilience of urban systems through Ecosystem-based Adaptation in the Asia-Pacific region"?
- *Yes*
  - *No*
- 2.2. Are you familiar the concept Ecosystem-based Adaptation concept?
- *Yes [If yes, please list a few points on what you understand by EbA]*
  - *No [If no, go directly to question 2.6]*
  - *Not sure*
- 2.3. Do you think nature-based solutions are relevant for the Lao context?
- *Yes*
    - *If yes, please elaborate :*
  - *No*
    - *If not, please elaborate :*
  - *Not sure*
- 2.4. Nature-based solutions are often considered as offering diverse co-benefits, can you cite 2 co-benefits these initiatives can bring to cities or human settlements?
- *Yes*
    - *Please explain :*
  - *No*
  - *Not sure*
- 2.5. Do you think nature-based solutions can improve flood management in your city/town?
- *Yes*
    - *If yes, please elaborate :*
  - *No*
    - *If not, please elaborate :*
- 2.6. Do you feel the need to further improve your knowledge on Ecosystem-based solutions for urban development and disaster risks reduction?
- *Yes [If yes, please write down your areas of interest]*
  - *No*

2.7. Do you have any experience in Disaster Risk Reduction?

- *Yes*
  - *If yes, in which area (you can choose more than one, if relevant]? (Disaster response, disaster preparedness, post-disaster reconstruction, floods management, other)*
- *No*

2.8. In your opinion, which type of floods occurs in Lao PDR?

- *Flash flood*
- *Seasonal flood*
- *River flood*
- *Coastal flood*
- *Pluvial flood*
- *Urban flood*

2.9. In your view, do you think floods induced by climate change are likely to affect your city/town?

- *Yes*
  - *Please explain.*
- *No*
  - *Please explain.*

2.10. Have you ever been engaged in risks and vulnerability assessments activities?

- *Yes*
  - *If yes, please elaborate :*
- *No*

---

### SECTION 3. Access to EbA Manuals and ICFMS

**Criterion 3:** In your view, does your institution have access to the city-level urban EbA manuals within the integrated climate resilient flood management strategies (ICFMS) and to national urban EbA guidelines?

- *Not at all*
- *Partially*
- *To a large extent/completely*

3.1. Do you have access to the city-level urban EbA manuals within the ICFMS and to national urban EbA guidelines?

- *Yes*
- *No*
- *Not sure*

---

### SECTION 4. Planning and Financing capacity

**Criterion 4:** In your view, does your institution have the capacity to access funding for integrated flood management and urban EbA interventions? (Awareness of funding sources, technical capacity to develop EbA)

- *Not at all*
- *Partially*
- *To a large extent/completely*

4.1. If any, what is the role/mandate of your department/office related to climate change planning?

- *None*
- *Short answer*

4.2. If yes to question 4.1., are you familiar with your department/office approved programs, projects and activities on climate change adaptation and/or mitigation?

- *Yes*
- *No*
- *Not sure*

4.3. Does your department/office allocate specific funds for climate change-related activities?

- *Yes*
- *No*

4.4. Does your department/office have any training/capacity building program on climate change adaptation and/or mitigation?

- *Yes (If yes, what training/capacity building programmes)*
- *No*

4.5. What are the challenges and/or problems that you and your department/office encounter in the performance of climate change-related activities?

- *Short answer*

4.6. In your opinion, does your department/office needs to improve capability of climate change-related activities?

- *Yes*
- *No*

4.7. In your opinion, what actions are most needed to improve capability of climate change-related activities your department/office?

- *Technical training*
- *Knowledge sharing*
- *Workshop*

## SECTION 5. Monitoring

**Criterion 5: In your opinion, is there evidence of adequate institutional capacities for the continuous monitoring and reviewing of integrated climate resilient flood management strategies (ICFMS) and learning from urban EbA interventions that have been implemented through previous initiatives/projects and the ICFMS?**

- *Not at all*
- *Partially*
- *To a large extent/completely*

5.1. Are you familiar with the integrated climate resilient flood management strategies (ICFMS)?

- *Yes*
- *No*
- *Not sure*

5.2. Have you already been engaged in flood management activities/projects/initiatives?

- *Yes*
  - *If yes, please elaborate :*
- *No*

5.3. Is there a monitoring and evaluation system in place in your office/department for climate change-related activities?

- *Yes*
- *No*
- *Not sure*

5.4. Do you know whether your department/office has a capacity development program/plan in place for staff and key personnel on climate change-related activities?

- *Yes*

- *No*
- *Not sure*

## SECTION 6. Urban Planning, land use and natural assets management

**Criterion 6:** In your opinion, does your institution have the capacity to actively engaged in urban planning/development activities, integrating environmental and social issues?

- *Not at all*
- *Partially*
- *To a large extent/completely*

6.1. Do you have experience working in urban development?

- *None*
- *0-1 year*
- *1-5 years*
- *5-10 years or more*

6.2. Do you have experience working in urban planning or spatial planning?

- *None*
- *0-1 year*
- *1-5 years*
- *5-10 years or more*

6.3. Do you have knowledge/information about urbanization trends in your country?

- *Yes*
- *No*

6.4. Do you think spatial planning and climate change are related?

- *Yes*
  - *If yes, please elaborate :*
- *No*
  - *If no, please elaborate :*

6.5. In your view, do you think encouraging multi-sectoral approaches at the local level is relevant to improve sustainable development and adapt to climate change?

- *Yes*
  - *If yes, please elaborate: (e.g., improving coordination, better responding to local needs)*
- *No*
  - *If not, please elaborate :*

6.6. In your opinion, is solid waste disposal an issue in your province/district/city?

- *Yes*
  - *If yes, please elaborate :*
- *No*
  - *If no, please elaborate :*

6.7. If related to your institution mandate, does your institution have the capacity to improve solid waste management?

- *Yes*
  - *If yes, please elaborate :*
- *No*
  - *If no, please elaborate :*

6.8. Have you ever witnessed household-level adaptation measures in your district/city? (e.g., keeping drainage lies on private property open, using plants to stabilise riverbanks, building houses or villages using climate resilient technics, ect.)

- *Yes*
  - *If yes, please elaborate :*
- *No*

6.9. Have you ever been engaged in activities focusing on land-use?

- *Yes*
  - *If yes, please elaborate :*
- *No*

6.10. In your view, are wetlands and urban streams valuable for the sustainable development of human settlements?

- *Yes*
  - *If yes, please elaborate: (e.g., reducing flood risks, providing clean water, creating recreational opportunities, ...)*
- *No*
  - *If not, please elaborate :*

6.11. In your opinion, is there a need to further protect natural streams and rivers in your province/district/city?

- *Yes*
  - *If yes, please elaborate :*
- *No*
  - *If no, please elaborate :*

6.12. Do you have knowledge/information about waterway buffer zones regulations?

- *Yes*
- *No*

## SECTION 7. Training and evaluation methods

7.1. Do you feel confident in asking questions or sharing your opinion?

- *Yes*
- *No*
- *Not sure*

7.2. Which training method is the most effective for you?

- *Multiple choices: theoretical training, focus group discussions, practical training in small groups, online training, physical training, other : please elaborate).*

7.3. Do you think presenting case studies may help you to better learn?

- *Yes*
- *No*

7.4. In order to evaluate the impact of training, which method will be the most appropriate for you?

*Multiple Choices :*

- *Mid-term and final evaluation*
- *Short surveys at the end of each training module*
- *Only a final evaluation of all modules*
- *Other : please elaborat*

## SECTION 8. Additional comments or suggestions

8.1. Do you have any recommendations for planning/organising/implementing capacity building activities?

- *Short answer*

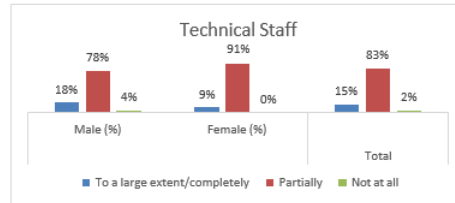
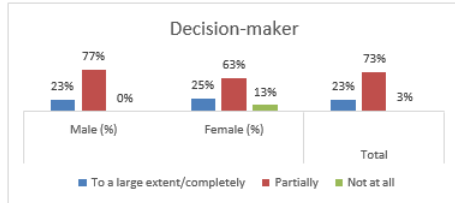
## ANNEX 3. Data collected

### Section 1: Climate Change awareness and planning

Criterion 1: In your view, is your institution aware of the current and expected impacts of climate change-induced floods on cities?

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| To a large extent/completely | 7         | 5              | 2        | 23%         | 25%         | 23%         |
| Partially                    | 22        | 17             | 5        | 77%         | 63%         | 73%         |
| Not at all                   | 1         | 0              | 1        | 0%          | 13%         | 3%          |
| <b>Total</b>                 | <b>30</b> | <b>22</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

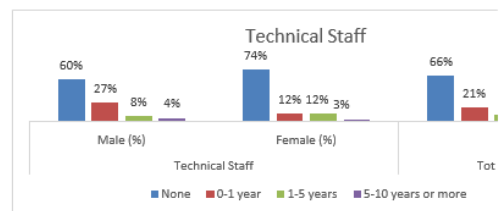
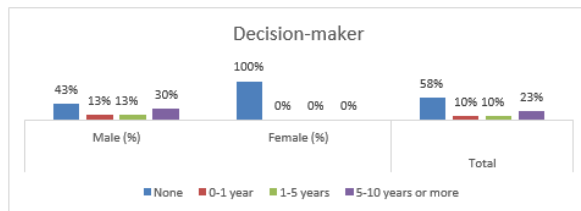
|                              | Total     | Technical Staff |           |             |             | Total       |
|------------------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| To a large extent/completely | 12        | 9               | 3         | 18%         | 9%          | 9%          |
| Partially                    | 68        | 38              | 30        | 78%         | 91%         | 91%         |
| Not at all                   | 2         | 2               | 0         | 4%          | 0%          | 0%          |
| <b>Total</b>                 | <b>82</b> | <b>49</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



1.1. Do you have experience working in climate change?

|                    | Total     | Decision-maker |          |             |             | Total       |
|--------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                    |           | Male           | Female   | Male (%)    | Female (%)  |             |
| None               | 18        | 10             | 8        | 43%         | 100%        | 58%         |
| 0-1 year           | 3         | 3              | 0        | 13%         | 0%          | 10%         |
| 1-5 years          | 3         | 3              | 0        | 13%         | 0%          | 10%         |
| 5-10 years or more | 7         | 7              | 0        | 30%         | 0%          | 23%         |
| <b>Total</b>       | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

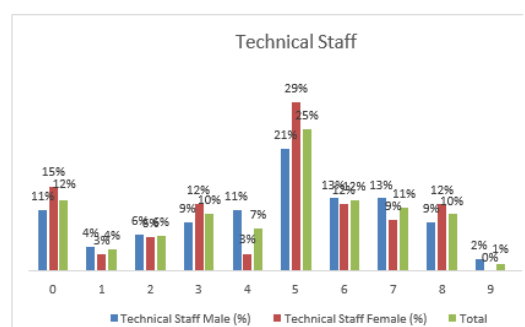
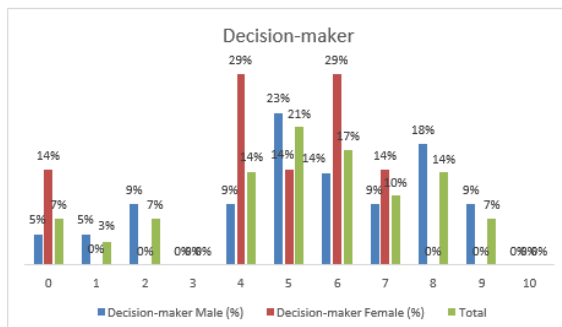
|                    | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|                    |           | Male            | Female    | Male (%)        | Female (%)  |             |
| None               | 54        | 29              | 25        | 60%             | 74%         | 74%         |
| 0-1 year           | 17        | 13              | 4         | 27%             | 12%         | 12%         |
| 1-5 years          | 8         | 4               | 4         | 8%              | 12%         | 12%         |
| 5-10 years or more | 3         | 2               | 1         | 4%              | 3%          | 3%          |
| <b>Total</b>       | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



1.2. Can you rate your awareness on climate change?

|              | Total     | Decision-maker |          |             |            | Total       |
|--------------|-----------|----------------|----------|-------------|------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%) |             |
| 0            | 2         | 1              | 1        | 5%          | 14%        | 7%          |
| 1            | 1         | 1              | 0        | 5%          | 0%         | 3%          |
| 2            | 2         | 2              | 0        | 9%          | 0%         | 7%          |
| 3            | 0         | 0              | 0        | 0%          | 0%         | 0%          |
| 4            | 4         | 2              | 2        | 9%          | 29%        | 14%         |
| 5            | 6         | 5              | 1        | 23%         | 14%        | 21%         |
| 6            | 5         | 3              | 2        | 14%         | 29%        | 17%         |
| 7            | 3         | 2              | 1        | 9%          | 14%        | 10%         |
| 8            | 4         | 4              | 0        | 18%         | 0%         | 14%         |
| 9            | 2         | 2              | 0        | 9%          | 0%         | 7%          |
| 10           | 0         | 0              | 0        | 0%          | 0%         | 0%          |
| <b>Total</b> | <b>29</b> | <b>22</b>      | <b>7</b> | <b>100%</b> | <b>1</b>   | <b>100%</b> |

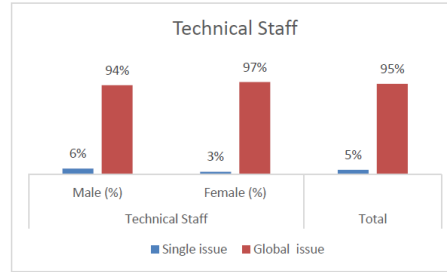
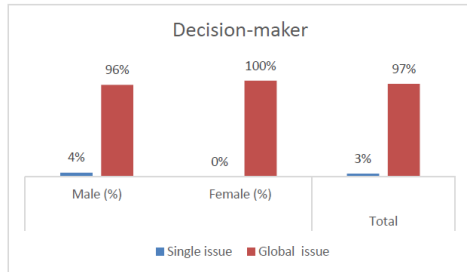
|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| 0            | 10        | 5               | 5         | 11%             | 15%         | 15%         |
| 1            | 3         | 2               | 1         | 4%              | 3%          | 3%          |
| 2            | 5         | 3               | 2         | 6%              | 6%          | 6%          |
| 3            | 8         | 4               | 4         | 9%              | 12%         | 12%         |
| 4            | 6         | 5               | 1         | 11%             | 3%          | 3%          |
| 5            | 20        | 10              | 10        | 21%             | 29%         | 29%         |
| 6            | 10        | 6               | 4         | 13%             | 12%         | 12%         |
| 7            | 9         | 6               | 3         | 13%             | 9%          | 9%          |
| 8            | 8         | 4               | 4         | 9%              | 12%         | 12%         |
| 9            | 1         | 1               | 0         | 2%              | 0%          | 0%          |
| 10           | 1         | 1               | 0         | 2%              | 0%          | 0%          |
| <b>Total</b> | <b>81</b> | <b>47</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



1.3. Do you see climate change as a stand-alone issue (only at the local level/only affecting one sector) or as a global issue encompassing all scales (local, nation-)

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Single issue | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| Global issue | 30        | 22             | 8        | 96%         | 100%        | 97%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

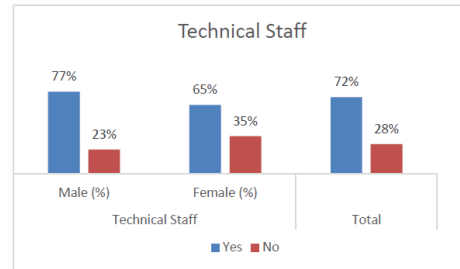
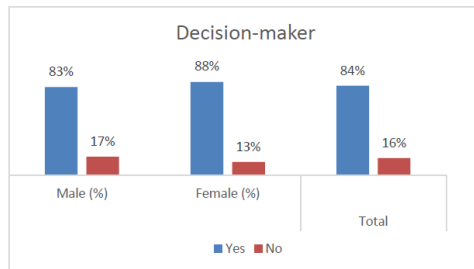
| Total     | Technical Staff |           | Technical Staff |            |
|-----------|-----------------|-----------|-----------------|------------|
|           | Male            | Female    | Male (%)        | Female (%) |
| 4         | 3               | 1         | 6%              | 3%         |
| <b>78</b> | <b>45</b>       | <b>33</b> | <b>94%</b>      | <b>97%</b> |



1.6. Do you know if climate change is likely to affect your city/town?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 26        | 19             | 7        | 83%         | 88%         | 84%         |
| No           | 5         | 4              | 1        | 17%         | 13%         | 16%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

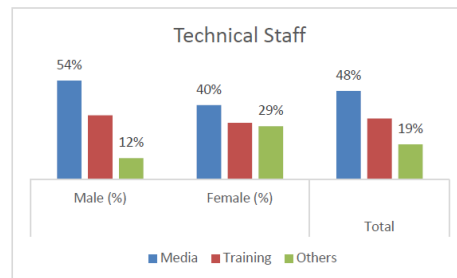
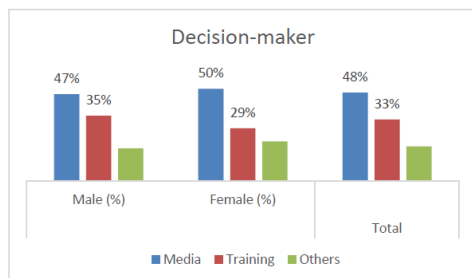
| Total     | Technical Staff |           | Technical Staff |            |
|-----------|-----------------|-----------|-----------------|------------|
|           | Male            | Female    | Male (%)        | Female (%) |
| 59        | 37              | 22        | 77%             | 65%        |
| <b>23</b> | <b>11</b>       | <b>12</b> | <b>23%</b>      | <b>35%</b> |



1.7. How did you learn about these climate change impacts? (training, media, word of mouth) [Choose more than one, if relevant]

|              | Total     | Decision-maker |           |             |             | Total       |
|--------------|-----------|----------------|-----------|-------------|-------------|-------------|
|              |           | Male           | Female    | Male (%)    | Female (%)  |             |
| Media        | 23        | 16             | 7         | 47%         | 50%         | 48%         |
| Training     | 16        | 12             | 4         | 35%         | 29%         | 33%         |
| Others       | 9         | 6              | 3         | 18%         | 21%         | 19%         |
| <b>Total</b> | <b>48</b> | <b>34</b>      | <b>14</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

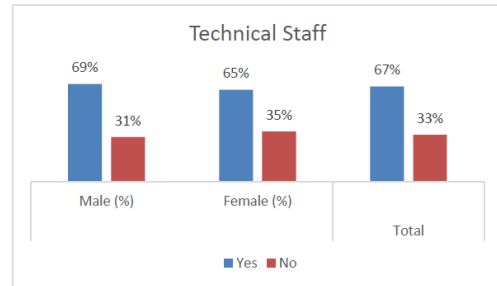
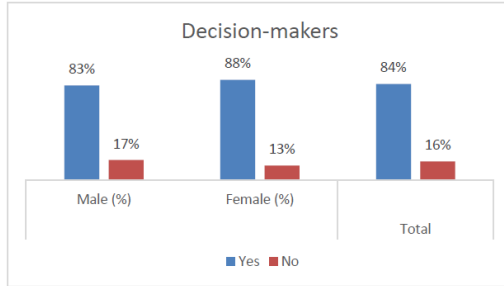
| Total      | Technical Staff |           |             |             |
|------------|-----------------|-----------|-------------|-------------|
|            | Male            | Female    | Male (%)    | Female (%)  |
| 58         | 37              | 21        | 54%         | 40%         |
| 40         | 24              | 16        | 35%         | 31%         |
| 23         | 8               | 15        | 12%         | 29%         |
| <b>121</b> | <b>69</b>       | <b>52</b> | <b>100%</b> | <b>100%</b> |



1.8. Are you familiar with the concept of vulnerability?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 26        | 19             | 7        | 83%         | 88%         | 84%         |
| No           | 5         | 4              | 1        | 17%         | 13%         | 16%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

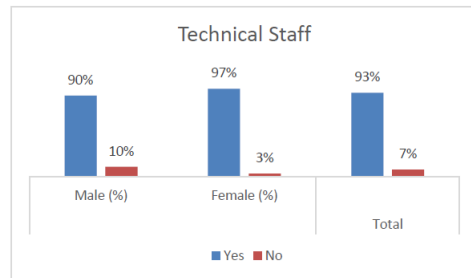
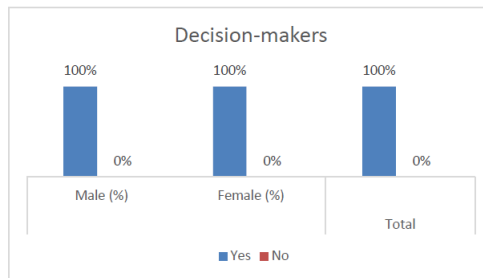
|              | Total     | Technical Staff |           |             |             |
|--------------|-----------|-----------------|-----------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |
| Yes          | 55        | 33              | 22        | 69%         | 65%         |
| No           | 27        | 15              | 12        | 31%         | 35%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> |



1.9. Are you familiar with the concept of exposure?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 31        | 23             | 8        | 100%        | 100%        | 100%        |
| No           | 0         | 0              | 0        | 0%          | 0%          | 0%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             |
|--------------|-----------|-----------------|-----------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |
| Yes          | 76        | 43              | 33        | 90%         | 97%         |
| No           | 6         | 5               | 1         | 10%         | 3%          |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> |



1.10. Are you familiar with the concept of sensitivity?

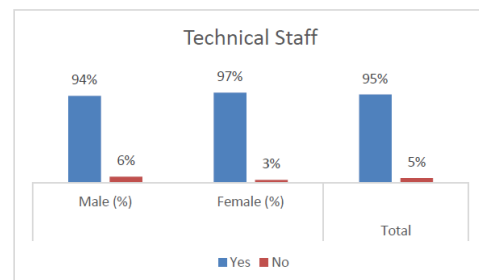
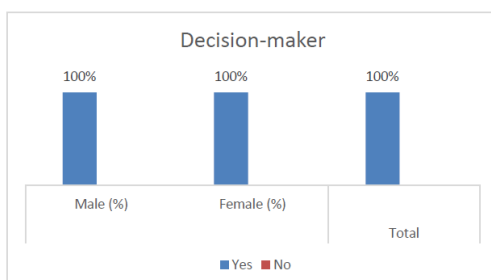
|     | Total | Decision-maker |        |          |            | Total |
|-----|-------|----------------|--------|----------|------------|-------|
|     |       | Male           | Female | Male (%) | Female (%) |       |
| Yes | 25    | 19             | 6      | 86%      | 75%        | 83%   |
| No  | 5     | 3              | 2      | 14%      | 25%        | 17%   |

|     | Total | Technical Staff |        |          |            |
|-----|-------|-----------------|--------|----------|------------|
|     |       | Male            | Female | Male (%) | Female (%) |
| Yes | 60    | 40              | 20     | 83%      | 59%        |
| No  | 22    | 8               | 14     | 17%      | 41%        |

1.11. Are you familiar with the concept of hazards?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 31        | 23             | 8        | 100%        | 100%        | 100%        |
| No           | 0         | 0              | 0        | 0%          | 0%          | 0%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             |
|--------------|-----------|-----------------|-----------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |
| Yes          | 78        | 45              | 33        | 94%         | 97%         |
| No           | 4         | 3               | 1         | 6%          | 3%          |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> |

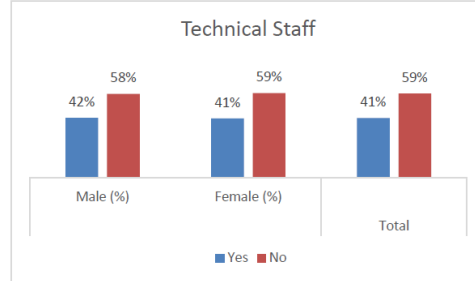
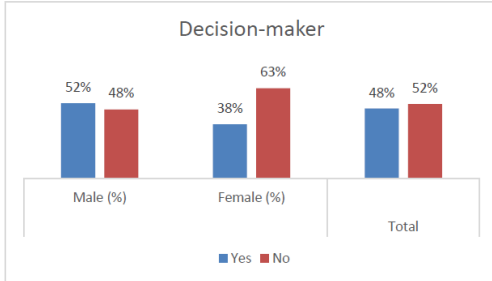




1.12. Have you heard of the Intergovernmental Panel on Climate Change (IPCC)?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 15        | 12             | 3        | 52%         | 38%         | 48%         |
| No           | 16        | 11             | 5        | 48%         | 63%         | 52%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

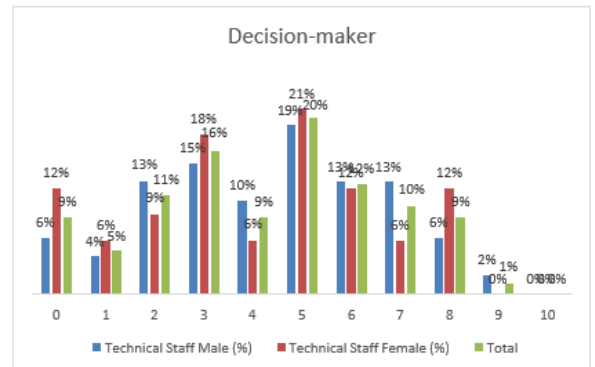
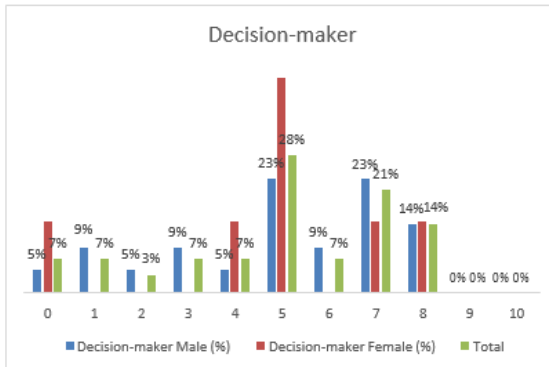
|              | Total     | Technical Staff |           |             |             |
|--------------|-----------|-----------------|-----------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |
| Yes          | 34        | 20              | 14        | 42%         | 41%         |
| No           | 48        | 28              | 20        | 58%         | 59%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> |



1.13. Can you rate your awareness on climate policies in Lao PDR at the national and sub-national level?

|              | Total     | Decision-maker |          |             |            | Total       |
|--------------|-----------|----------------|----------|-------------|------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%) |             |
| 0            | 2         | 1              | 1        | 5%          | 14%        | 7%          |
| 1            | 2         | 2              | 0        | 9%          | 0%         | 7%          |
| 2            | 1         | 1              | 0        | 5%          | 0%         | 3%          |
| 3            | 2         | 2              | 0        | 9%          | 0%         | 7%          |
| 4            | 2         | 1              | 1        | 5%          | 14%        | 7%          |
| 5            | 8         | 5              | 3        | 23%         | 43%        | 28%         |
| 6            | 2         | 2              | 0        | 9%          | 0%         | 7%          |
| 7            | 6         | 5              | 1        | 23%         | 14%        | 21%         |
| 8            | 4         | 3              | 1        | 14%         | 14%        | 14%         |
| 9            | 0         | 0              | 0        | 0%          | 0%         | 0%          |
| 10           | 0         | 0              | 0        | 0%          | 0%         | 0%          |
| <b>Total</b> | <b>29</b> | <b>22</b>      | <b>7</b> | <b>100%</b> | <b>1</b>   | <b>100%</b> |

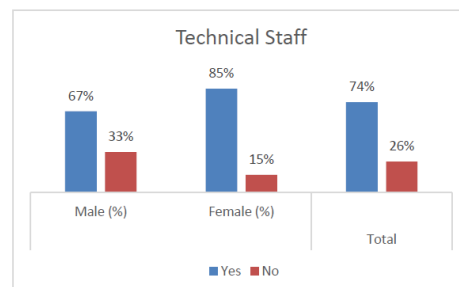
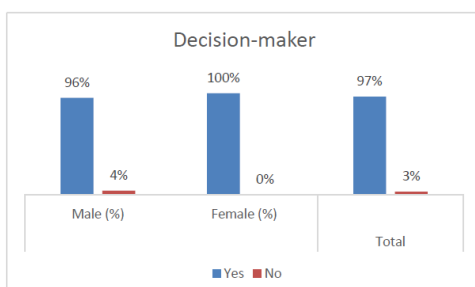
|              | Total     | Technical Staff |           | Technical Staff |             |
|--------------|-----------|-----------------|-----------|-----------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |
| 0            | 7         | 3               | 4         | 6%              | 12%         |
| 1            | 4         | 2               | 2         | 4%              | 6%          |
| 2            | 9         | 6               | 3         | 13%             | 9%          |
| 3            | 13        | 7               | 6         | 15%             | 18%         |
| 4            | 7         | 5               | 2         | 10%             | 6%          |
| 5            | 16        | 9               | 7         | 19%             | 21%         |
| 6            | 10        | 6               | 4         | 13%             | 12%         |
| 7            | 8         | 6               | 2         | 13%             | 6%          |
| 8            | 7         | 3               | 4         | 6%              | 12%         |
| 9            | 1         | 1               | 0         | 2%              | 0%          |
| 10           | 0         | 0               | 0         | 0%              | 0%          |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> |



1.14. Do you feel the need to further improve your knowledge on climate change?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 30        | 22             | 8        | 96%         | 100%        | 97%         |
| No           | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             |
|--------------|-----------|-----------------|-----------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |
| Yes          | 61        | 32              | 29        | 67%         | 85%         |
| No           | 21        | 16              | 5         | 33%         | 15%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> |

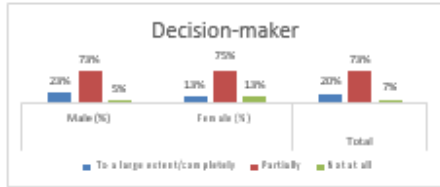


## Section 2: Ecosystem-based Adaptation (EbA) solutions and Flood Management

Criterion 2: In your opinion, does your institution have the capacity to design, plan for and implement integrated flood management and urban EbA approaches at city, provincial, and national levels, including coordination among institutions

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| To a large extent/completely | 6         | 5              | 1        | 23%         | 13%         | 20%         |
| Partially                    | 22        | 16             | 6        | 73%         | 75%         | 73%         |
| Not at all                   | 2         | 1              | 1        | 5%          | 13%         | 7%          |
| <b>Total</b>                 | <b>30</b> | <b>22</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

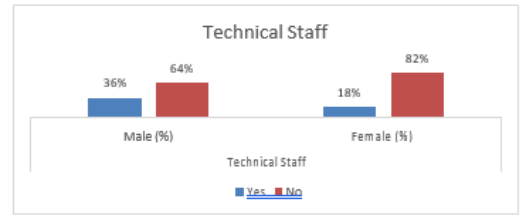
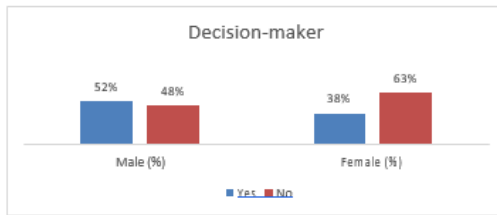
|                              | Total     | Technical Staff |           |             |             | Total       |
|------------------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| To a large extent/completely | 15        | 9               | 6         | 20%         | 38%         | 19%         |
| Partially                    | 54        | 33              | 21        | 72%         | 64%         | 68%         |
| Not at all                   | 10        | 4               | 6         | 9%          | 18%         | 13%         |
| <b>Total</b>                 | <b>79</b> | <b>46</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



2.1. Did you attend trainings on Ecosystem-based Adaptation solutions through the ongoing project "Building climate resilience of urban systems through Ecosystem-based Adaptation in the Asia-Pacific region"

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 15        | 12             | 3        | 52%         | 38%         | 48%         |
| No           | 16        | 11             | 5        | 48%         | 63%         | 52%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

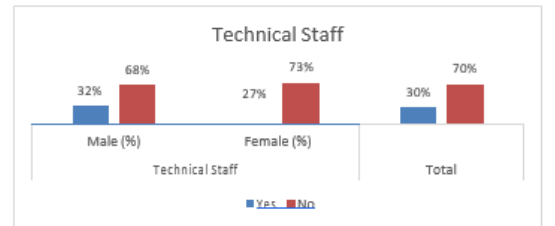
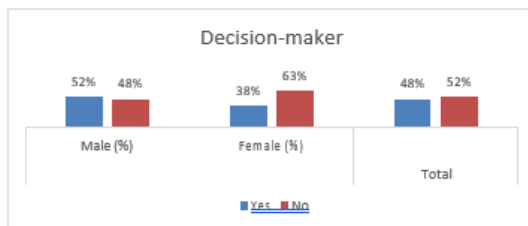
|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 23        | 17              | 6         | 36%             | 18%         | 29%         |
| No           | 57        | 30              | 27        | 64%             | 82%         | 71%         |
| <b>Total</b> | <b>80</b> | <b>47</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



2.2. Are you familiar the concept Ecosystem-based Adaptation concept?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 15        | 12             | 3        | 52%         | 38%         | 48%         |
| No           | 16        | 11             | 5        | 48%         | 63%         | 52%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

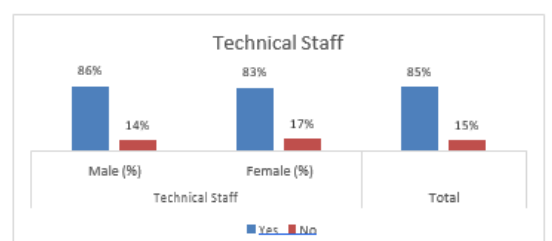
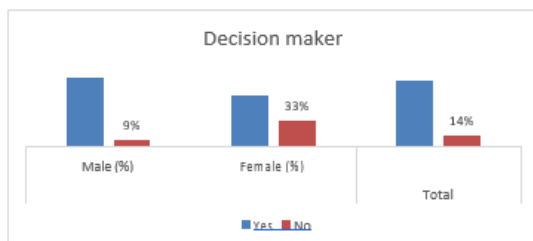
|              | Total     | Technical Staff |           | Technical Staff |             | Total    |
|--------------|-----------|-----------------|-----------|-----------------|-------------|----------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |          |
| Yes          | 24        | 15              | 9         | 32%             | 27%         | 30%      |
| No           | 56        | 32              | 24        | 68%             | 73%         | 70%      |
| <b>Total</b> | <b>80</b> | <b>47</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>1</b> |



2.3. Do you think nature-based solutions are relevant for the Lao context?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 12        | 10             | 2        | 91%         | 67%         | 86%         |
| No           | 2         | 1              | 1        | 9%          | 33%         | 14%         |
| <b>Total</b> | <b>14</b> | <b>11</b>      | <b>3</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |          | Technical Staff |             | Total    |
|--------------|-----------|-----------------|----------|-----------------|-------------|----------|
|              |           | Male            | Female   | Male (%)        | Female (%)  |          |
| Yes          | 17        | 12              | 5        | 86%             | 83%         | 85%      |
| No           | 3         | 2               | 1        | 14%             | 17%         | 15%      |
| <b>Total</b> | <b>20</b> | <b>14</b>       | <b>6</b> | <b>100%</b>     | <b>100%</b> | <b>1</b> |

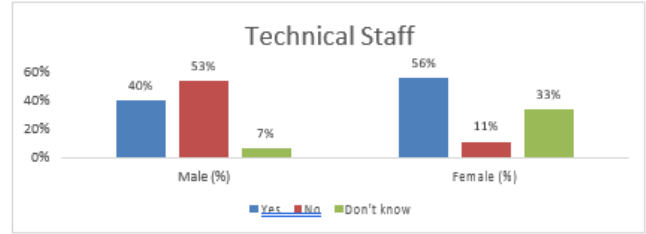
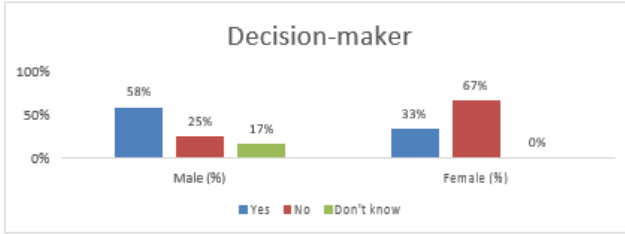


## TRAINING NEEDS ASSESSMENT REPORT

2.4. Nature-based solutions are often considered as offering diverse co-benefits, can you cite 2 co-benefits these initiatives can bring to cities or human settlements?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 8         | 7              | 1        | 58%         | 33%         | 53%         |
| No           | 5         | 3              | 2        | 25%         | 67%         | 33%         |
| Don't know   | 2         | 2              | 0        | 17%         | 0%          | 13%         |
| <b>Total</b> | <b>15</b> | <b>12</b>      | <b>3</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

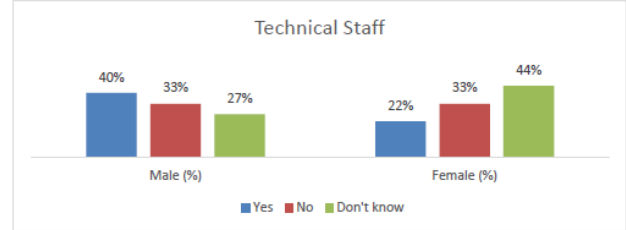
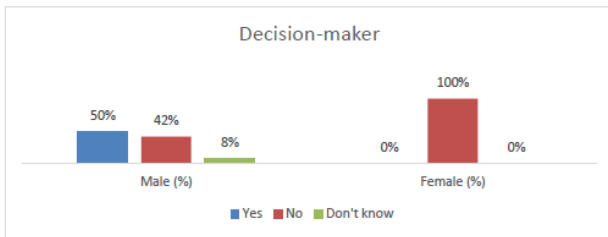
|              | Total     | Technical Staff |          |             |             | Total       |
|--------------|-----------|-----------------|----------|-------------|-------------|-------------|
|              |           | Male            | Female   | Male (%)    | Female (%)  |             |
| Yes          | 11        | 6               | 5        | 40%         | 56%         | 46%         |
| No           | 9         | 8               | 1        | 53%         | 11%         | 38%         |
| Don't know   | 4         | 1               | 3        | 7%          | 33%         | 17%         |
| <b>Total</b> | <b>24</b> | <b>15</b>       | <b>9</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



2.5. Do you think nature-based solutions can improve flood management in your city/town?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 6         | 6              | 0        | 50%         | 0%          | 40%         |
| No           | 8         | 5              | 3        | 42%         | 100%        | 53%         |
| Don't know   | 1         | 1              | 0        | 8%          | 0%          | 7%          |
| <b>Total</b> | <b>15</b> | <b>12</b>      | <b>3</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

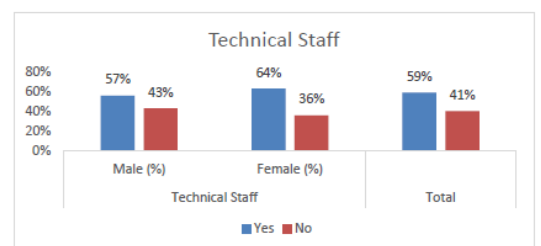
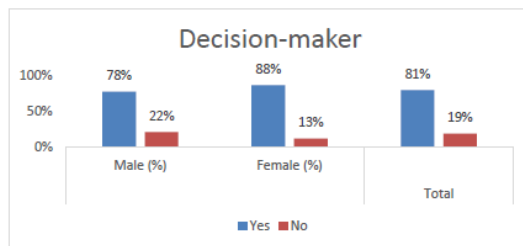
|              | Total     | Technical Staff |          |             |             | Total       |
|--------------|-----------|-----------------|----------|-------------|-------------|-------------|
|              |           | Male            | Female   | Male (%)    | Female (%)  |             |
| Yes          | 8         | 6               | 2        | 40%         | 22%         | 33%         |
| No           | 8         | 5               | 3        | 33%         | 33%         | 33%         |
| Don't know   | 8         | 4               | 4        | 27%         | 44%         | 33%         |
| <b>Total</b> | <b>24</b> | <b>15</b>       | <b>9</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



2.6. Do you feel the need to further improve your knowledge on Ecosystem-based solutions for urban development and disaster risks reduction?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 25        | 18             | 7        | 78%         | 88%         | 81%         |
| No           | 6         | 5              | 1        | 22%         | 13%         | 19%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

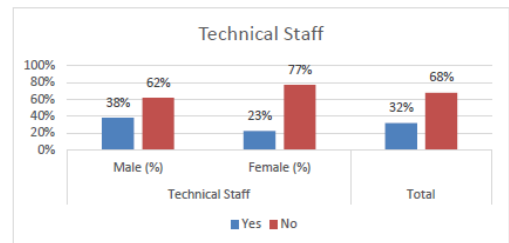
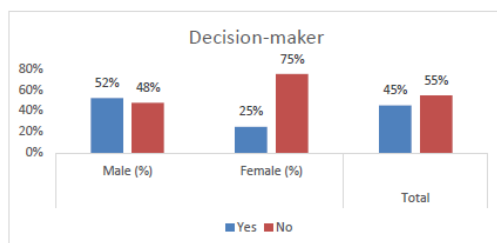
|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 47        | 26              | 21        | 57%             | 64%         | 59%         |
| No           | 32        | 20              | 12        | 43%             | 36%         | 41%         |
| <b>Total</b> | <b>79</b> | <b>46</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



2.7. Do you have any experience in Disaster Risk Reduction?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 14        | 12             | 2        | 52%         | 25%         | 45%         |
| No           | 17        | 11             | 6        | 48%         | 75%         | 55%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

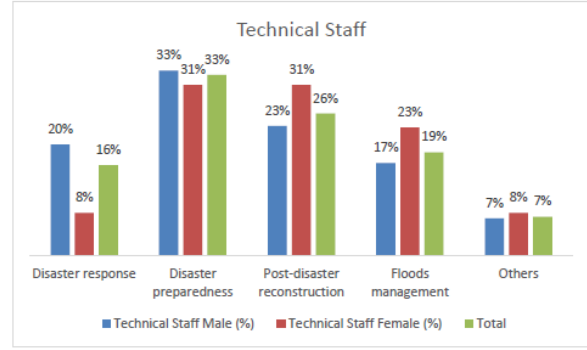
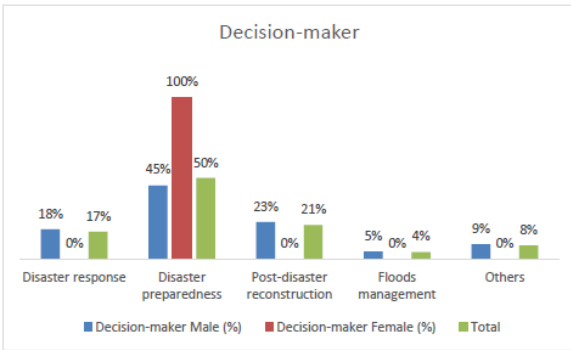
|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 25        | 18              | 7         | 38%             | 23%         | 32%         |
| No           | 53        | 29              | 24        | 62%             | 77%         | 68%         |
| <b>Total</b> | <b>78</b> | <b>47</b>       | <b>31</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



2.7.a In which area?

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Disaster response            | 4         | 4              | 0        | 18%         | 0%          | 17%         |
| Disaster preparedness        | 12        | 10             | 2        | 45%         | 100%        | 50%         |
| Post-disaster reconstruction | 5         | 5              | 0        | 23%         | 0%          | 21%         |
| Floods management            | 1         | 1              | 0        | 5%          | 0%          | 4%          |
| Others                       | 2         | 2              | 0        | 9%          | 0%          | 8%          |
| <b>Total</b>                 | <b>24</b> | <b>22</b>      | <b>2</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

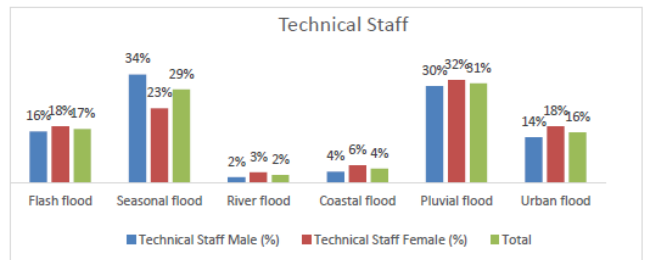
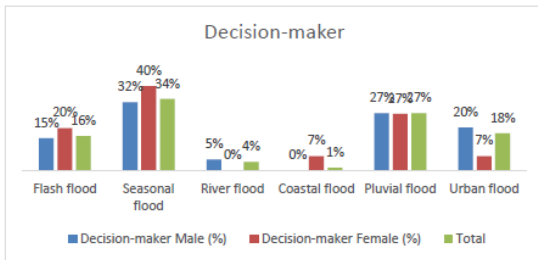
|                              | Total     | Technical Staff |           |             |             | Total       |
|------------------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Disaster response            | 7         | 6               | 1         | 20%         | 8%          | 16%         |
| Disaster preparedness        | 14        | 10              | 4         | 33%         | 31%         | 33%         |
| Post-disaster reconstruction | 11        | 7               | 4         | 23%         | 31%         | 26%         |
| Floods management            | 8         | 5               | 3         | 17%         | 23%         | 19%         |
| Others                       | 3         | 2               | 1         | 7%          | 8%          | 7%          |
| <b>Total</b>                 | <b>43</b> | <b>30</b>       | <b>13</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



2.8. In your opinion, which type of floods occurs in Lao PDR?

|                | Total     | Decision-maker |           |             |             | Total       |
|----------------|-----------|----------------|-----------|-------------|-------------|-------------|
|                |           | Male           | Female    | Male (%)    | Female (%)  |             |
| Flash flood    | 12        | 9              | 3         | 15%         | 20%         | 16%         |
| Seasonal flood | 25        | 19             | 6         | 32%         | 40%         | 34%         |
| River flood    | 3         | 3              | 0         | 5%          | 0%          | 4%          |
| Coastal flood  | 1         | 0              | 1         | 0%          | 7%          | 1%          |
| Pluvial flood  | 20        | 16             | 4         | 27%         | 27%         | 27%         |
| Urban flood    | 13        | 12             | 1         | 20%         | 7%          | 18%         |
| <b>Total</b>   | <b>74</b> | <b>59</b>      | <b>15</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

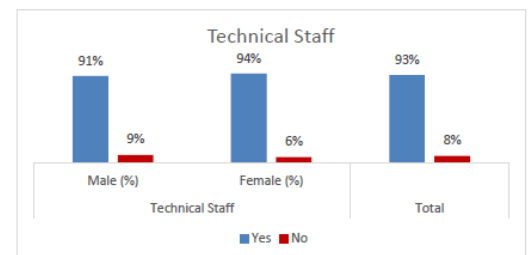
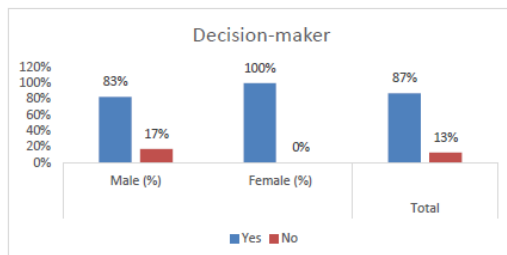
|                | Total      | Technical Staff |           |             |             | Total       |
|----------------|------------|-----------------|-----------|-------------|-------------|-------------|
|                |            | Male            | Female    | Male (%)    | Female (%)  |             |
| Flash flood    | 34         | 18              | 16        | 16%         | 18%         | 17%         |
| Seasonal flood | 59         | 38              | 21        | 34%         | 23%         | 29%         |
| River flood    | 5          | 2               | 3         | 2%          | 3%          | 2%          |
| Coastal flood  | 9          | 4               | 5         | 4%          | 6%          | 4%          |
| Pluvial flood  | 63         | 34              | 29        | 30%         | 32%         | 31%         |
| Urban flood    | 32         | 16              | 16        | 14%         | 18%         | 16%         |
| <b>Total</b>   | <b>202</b> | <b>112</b>      | <b>90</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



2.9 In your view, do you think floods induced by climate change are likely to affect your city/town?

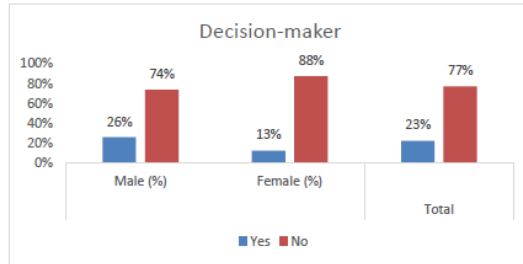
|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 27        | 19             | 8        | 83%         | 100%        | 87%         |
| No           | 4         | 4              | 0        | 17%         | 0%          | 13%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 74        | 43              | 31        | 91%             | 94%         | 93%         |
| No           | 6         | 4               | 2         | 9%              | 6%          | 8%          |
| <b>Total</b> | <b>80</b> | <b>47</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

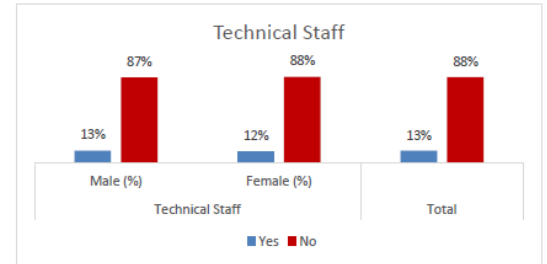


2.10. Have you ever been engaged in risks and vulnerability assessments activities?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 7         | 6              | 1        | 26%         | 13%         | 23%         |
| No           | 24        | 17             | 7        | 74%         | 88%         | 77%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



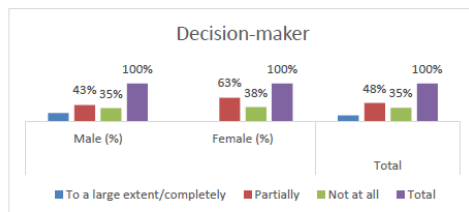
|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
|              | 10        | 6               | 4         | 13%             | 12%         | 13%         |
|              | 70        | 41              | 29        | 87%             | 88%         | 88%         |
| <b>Total</b> | <b>80</b> | <b>47</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



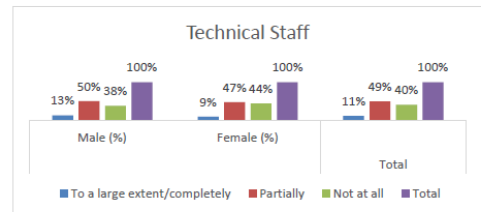
Section 3. Access to EbA Manuals and ICFMS

Criterion 3: In your view, does your institution have access to the city-level urban EbA manuals within the integrated climate resilient flood management strategies (ICFMS) and to national urban EbA guidelines?

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| To a large extent/completely | 5         | 5              | 0        | 22%         | 0%          | 16%         |
| Partially                    | 15        | 10             | 5        | 43%         | 63%         | 48%         |
| Not at all                   | 11        | 8              | 3        | 35%         | 38%         | 35%         |
| <b>Total</b>                 | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

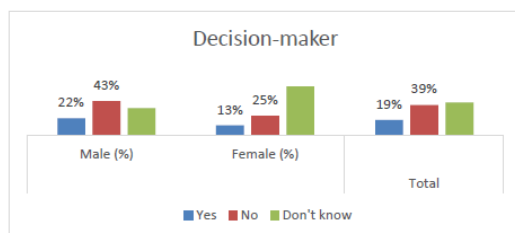


|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
|              | 9         | 6               | 3         | 13%         | 9%          | 11%         |
|              | 40        | 24              | 16        | 50%         | 47%         | 49%         |
|              | 33        | 18              | 15        | 38%         | 44%         | 40%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

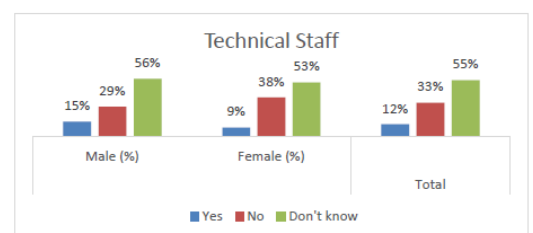


3.1. Do you have access to the city-level urban EbA manuals within the ICFMS and to national urban EbA guidelines?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 6         | 5              | 1        | 22%         | 13%         | 19%         |
| No           | 12        | 10             | 2        | 43%         | 25%         | 39%         |
| Don't know   | 13        | 8              | 5        | 35%         | 63%         | 42%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



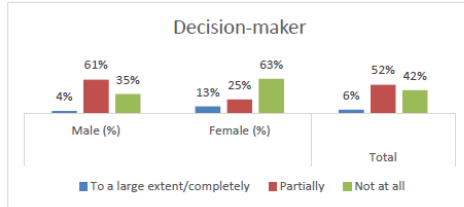
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
|              | 10        | 7               | 3         | 15%         | 9%          | 12%         |
|              | 27        | 14              | 13        | 29%         | 38%         | 33%         |
|              | 45        | 27              | 18        | 56%         | 53%         | 55%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



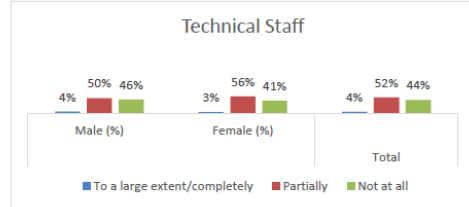
### Section 4. Planning and Financing capacity

Criterion 4: In your view, does your institution have the capacity to access funding for integrated flood management and urban EbA interventions? (Awareness of funding sources, technical capacity to develop EbA)

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| To a large extent/completely | 2         | 1              | 1        | 4%          | 13%         | 6%          |
| Partially                    | 16        | 14             | 2        | 61%         | 25%         | 52%         |
| Not at all                   | 13        | 8              | 5        | 35%         | 63%         | 42%         |
| <b>Total</b>                 | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

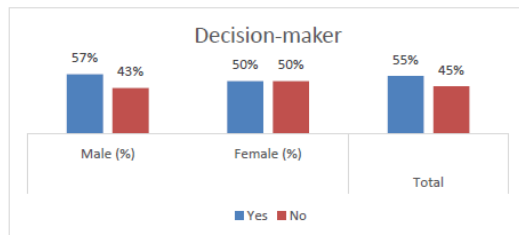


|                              | Total     | Technical Staff |           |             |             | Total       |
|------------------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| To a large extent/completely | 3         | 2               | 1         | 4%          | 3%          | 4%          |
| Partially                    | 43        | 24              | 19        | 50%         | 56%         | 52%         |
| Not at all                   | 36        | 22              | 14        | 46%         | 41%         | 44%         |
| <b>Total</b>                 | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

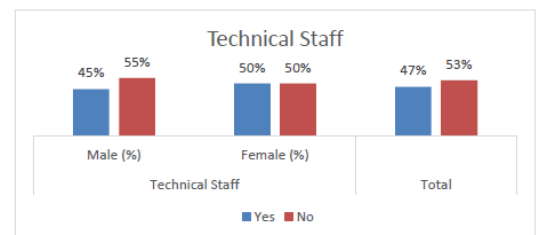


#### 4.1. Does your department have a role/mandate related to climate change planning?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 17        | 13             | 4        | 57%         | 50%         | 55%         |
| No           | 14        | 10             | 4        | 43%         | 50%         | 45%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

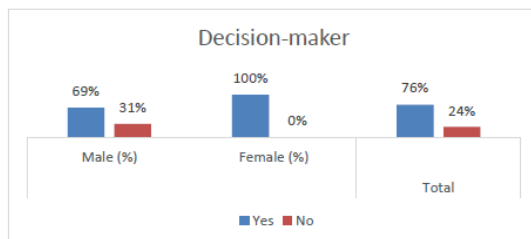


|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 38        | 21              | 17        | 45%             | 50%         | 47%         |
| No           | 43        | 26              | 17        | 55%             | 50%         | 53%         |
| <b>Total</b> | <b>81</b> | <b>47</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

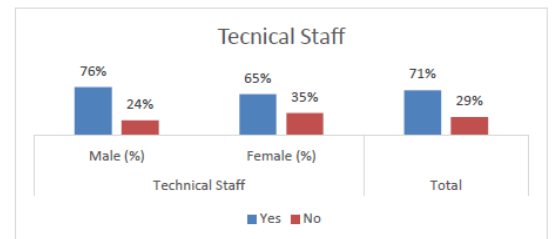


#### 4.2. Are you familiar with your department/office approved programs, projects and activities on climate change adaptation and/or mitigation?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 13        | 9              | 4        | 69%         | 100%        | 76%         |
| No           | 4         | 4              | 0        | 31%         | 0%          | 24%         |
| <b>Total</b> | <b>17</b> | <b>13</b>      | <b>4</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

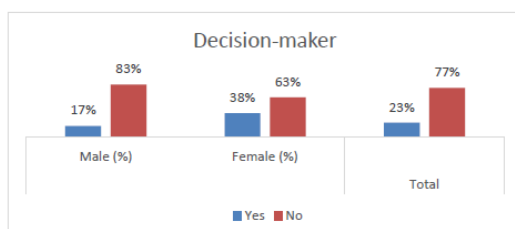


|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 27        | 16              | 11        | 76%             | 65%         | 71%         |
| No           | 11        | 5               | 6         | 24%             | 35%         | 29%         |
| <b>Total</b> | <b>38</b> | <b>21</b>       | <b>17</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

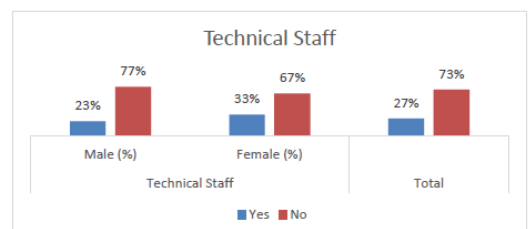


#### 4.3. Does your department/office allocate specific funds for climate change-related activities?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 7         | 4              | 3        | 17%         | 38%         | 23%         |
| No           | 24        | 19             | 5        | 83%         | 63%         | 77%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



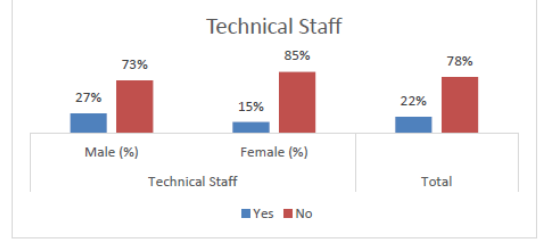
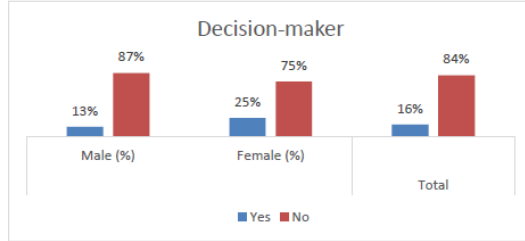
|              | Total     | Technical Staff |           | Technical Staff |             | Total    |
|--------------|-----------|-----------------|-----------|-----------------|-------------|----------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |          |
| Yes          | 22        | 11              | 11        | 23%             | 33%         | 27%      |
| No           | 59        | 37              | 22        | 77%             | 67%         | 73%      |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>1</b> |



4.4. Does your department/office have any training/capacity building program on climate change adaptation and/or mitigation?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 5         | 3              | 2        | 13%         | 25%         | 16%         |
| No           | 26        | 20             | 6        | 87%         | 75%         | 84%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

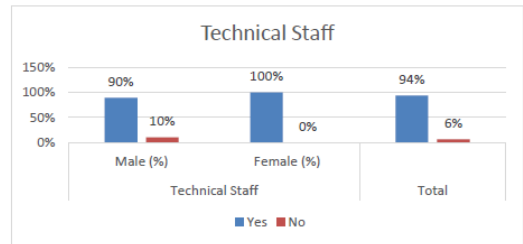
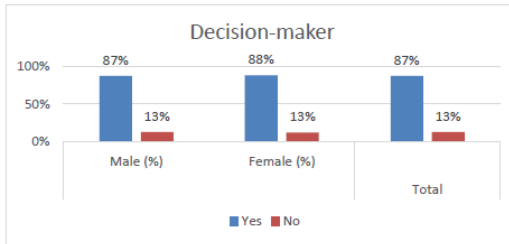
|              | Total     | Technical Staff |           | Technical Staff |             | Total    |
|--------------|-----------|-----------------|-----------|-----------------|-------------|----------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |          |
| Yes          | 18        | 13              | 5         | 27%             | 15%         | 22%      |
| No           | 63        | 35              | 28        | 73%             | 85%         | 78%      |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>1</b> |



4.6. In your opinion, does your department/office needs to improve capability of climate change-related activities?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 27        | 20             | 7        | 87%         | 88%         | 87%         |
| No           | 4         | 3              | 1        | 13%         | 13%         | 13%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

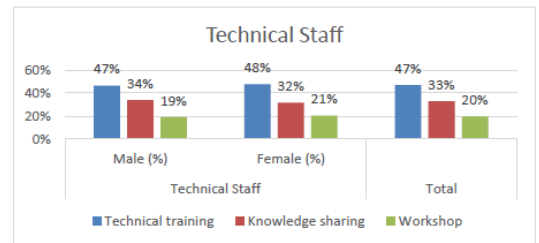
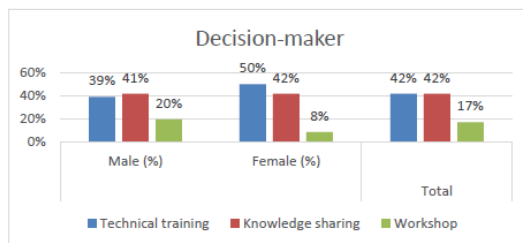
|              | Total     | Technical Staff |           | Technical Staff |             | Total    |
|--------------|-----------|-----------------|-----------|-----------------|-------------|----------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |          |
| Yes          | 76        | 43              | 33        | 90%             | 100%        | 94%      |
| No           | 5         | 5               | 0         | 10%             | 0%          | 6%       |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b>     | <b>100%</b> | <b>1</b> |



4.7. In your opinion, what actions are most needed to improve capability of climate change-related activities your department/office?

|                    | Total     | Decision-maker |           |             |             | Total       |
|--------------------|-----------|----------------|-----------|-------------|-------------|-------------|
|                    |           | Male           | Female    | Male (%)    | Female (%)  |             |
| Technical training | 22        | 16             | 6         | 39%         | 50%         | 42%         |
| Knowledge sharing  | 22        | 17             | 5         | 41%         | 42%         | 42%         |
| Workshop           | 9         | 8              | 1         | 20%         | 8%          | 17%         |
| <b>Total</b>       | <b>53</b> | <b>41</b>      | <b>12</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

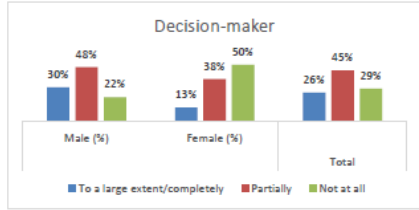
|                    | Total      | Technical Staff |           | Technical Staff |             | Total       |
|--------------------|------------|-----------------|-----------|-----------------|-------------|-------------|
|                    |            | Male            | Female    | Male (%)        | Female (%)  |             |
| Technical training | 71         | 41              | 30        | 47%             | 48%         | 47%         |
| Knowledge sharing  | 50         | 30              | 20        | 34%             | 32%         | 33%         |
| Workshop           | 30         | 17              | 13        | 19%             | 21%         | 20%         |
| <b>Total</b>       | <b>151</b> | <b>88</b>       | <b>63</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |



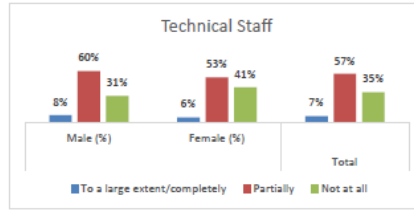
## Section 5. Monitoring and evaluation systems

Criterion 5: In your opinion, is there evidence of adequate institutional capacities for the continuous monitoring and reviewing of integrated climate resilient flood management strategies (ICFMS) and learning from urban EbA interventions

|                              | Total     | Decision-maker |          |             |             | Total       |
|------------------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| To a large extent/completely | 8         | 7              | 1        | 30%         | 13%         | 26%         |
| Partially                    | 14        | 11             | 3        | 48%         | 38%         | 45%         |
| Not at all                   | 9         | 5              | 4        | 22%         | 50%         | 29%         |
| <b>Total</b>                 | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

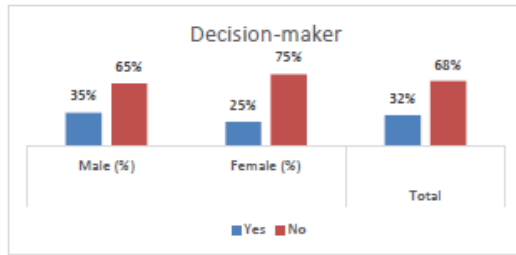


|                              | Total     | Technical Staff |           |             |             | Total       |
|------------------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| To a large extent/completely | 6         | 4               | 2         | 8%          | 6%          | 7%          |
| Partially                    | 47        | 29              | 18        | 60%         | 53%         | 57%         |
| Not at all                   | 29        | 15              | 14        | 31%         | 41%         | 35%         |
| <b>Total</b>                 | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

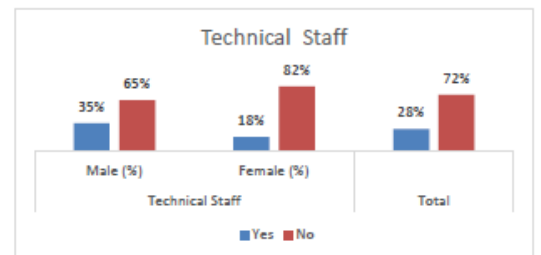


### 5.1. Are you familiar with the integrated climate resilient flood management strategies (ICFMS)?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 10        | 8              | 2        | 35%         | 25%         | 32%         |
| No           | 21        | 15             | 6        | 65%         | 75%         | 68%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

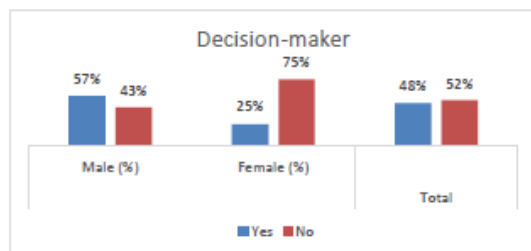


|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 23        | 17              | 6         | 35%             | 18%         | 28%         |
| No           | 59        | 31              | 28        | 65%             | 82%         | 72%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

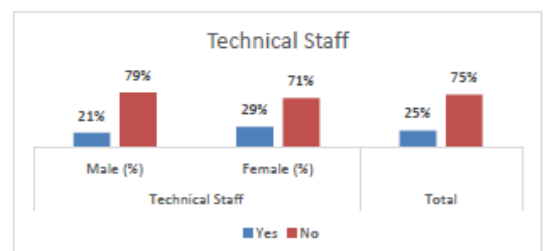


### 5.2. Have you already been engaged in flood management activities/projects/initiatives?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 15        | 13             | 2        | 57%         | 25%         | 48%         |
| No           | 16        | 10             | 6        | 43%         | 75%         | 52%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 20        | 10              | 10        | 21%             | 29%         | 25%         |
| No           | 61        | 37              | 24        | 79%             | 71%         | 75%         |
| <b>Total</b> | <b>81</b> | <b>47</b>       | <b>34</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

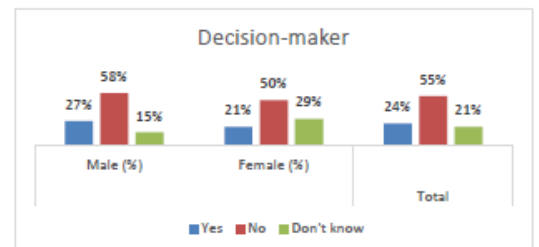
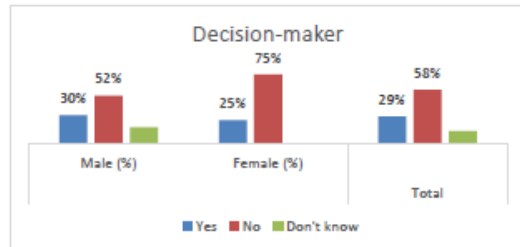




5.3. Is there a monitoring and evaluation system in place in your office/department for climate change-related activities?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 9         | 7              | 2        | 30%         | 25%         | 29%         |
| No           | 18        | 12             | 6        | 52%         | 75%         | 58%         |
| Don't know   | 4         | 4              | 0        | 17%         | 0%          | 13%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

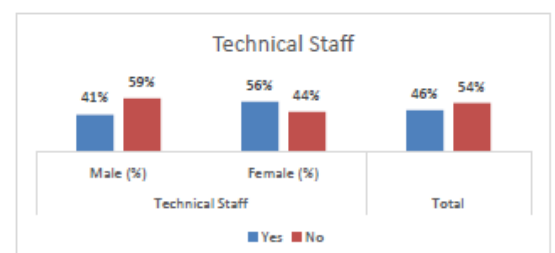
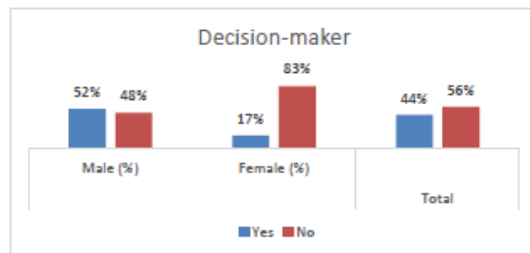
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 20        | 13              | 7         | 27%         | 21%         | 24%         |
| No           | 45        | 28              | 17        | 58%         | 50%         | 55%         |
| Don't know   | 17        | 7               | 10        | 15%         | 29%         | 21%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



5.4. Do you know whether your department/office has a capacity development program/plan in place for staff and key personnel on climate change-related activities?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 12        | 11             | 1        | 52%         | 17%         | 44%         |
| No           | 15        | 10             | 5        | 48%         | 83%         | 56%         |
| <b>Total</b> | <b>27</b> | <b>21</b>      | <b>6</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           | Technical Staff |             | Total       |
|--------------|-----------|-----------------|-----------|-----------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)        | Female (%)  |             |
| Yes          | 24        | 14              | 10        | 41%             | 56%         | 46%         |
| No           | 28        | 20              | 8         | 59%             | 44%         | 54%         |
| <b>Total</b> | <b>52</b> | <b>34</b>       | <b>18</b> | <b>100%</b>     | <b>100%</b> | <b>100%</b> |

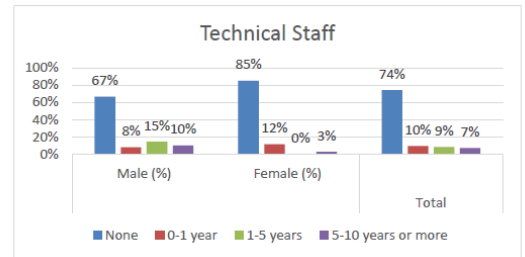
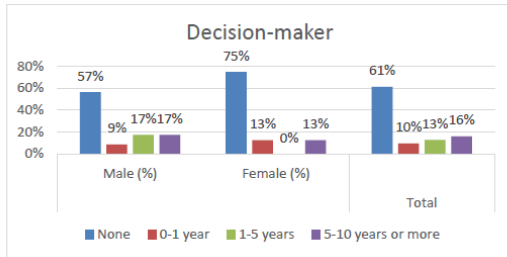


Section 6. Urban Planning, land use and natural assets management

6.1. Do you have experience working in urban development?

|                    | Total     | Decision-maker |          |             |             | Total       |
|--------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                    |           | Male           | Female   | Male (%)    | Female (%)  |             |
| None               | 19        | 13             | 6        | 57%         | 75%         | 61%         |
| 0-1 year           | 3         | 2              | 1        | 9%          | 13%         | 10%         |
| 1-5 years          | 4         | 4              | 0        | 17%         | 0%          | 13%         |
| 5-10 years or more | 5         | 4              | 1        | 17%         | 13%         | 16%         |
| <b>Total</b>       | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

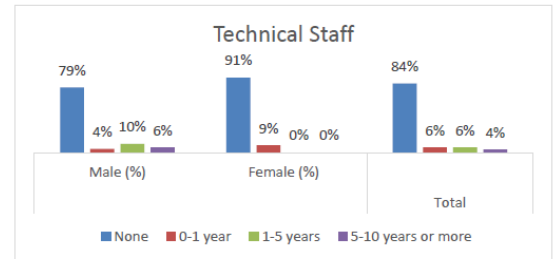
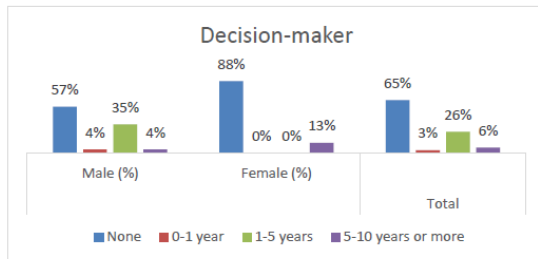
|                    | Total     | Technical Staff |           |             |             | Total       |
|--------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                    |           | Male            | Female    | Male (%)    | Female (%)  |             |
| None               | 61        | 32              | 29        | 67%         | 85%         | 74%         |
| 0-1 year           | 8         | 4               | 4         | 8%          | 12%         | 10%         |
| 1-5 years          | 7         | 7               | 0         | 15%         | 0%          | 9%          |
| 5-10 years or more | 6         | 5               | 1         | 10%         | 3%          | 7%          |
| <b>Total</b>       | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.2. Do you have experience working in urban planning or spatial planning?

|                    | Total     | Decision-maker |          |             |             | Total       |
|--------------------|-----------|----------------|----------|-------------|-------------|-------------|
|                    |           | Male           | Female   | Male (%)    | Female (%)  |             |
| None               | 20        | 13             | 7        | 57%         | 88%         | 65%         |
| 0-1 year           | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| 1-5 years          | 8         | 8              | 0        | 35%         | 0%          | 26%         |
| 5-10 years or more | 2         | 1              | 1        | 4%          | 13%         | 6%          |
| <b>Total</b>       | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

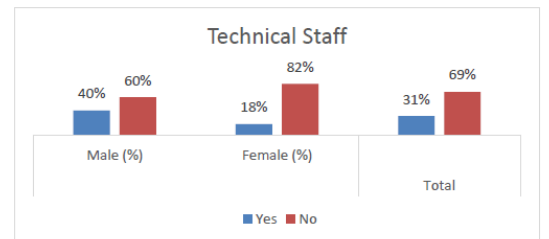
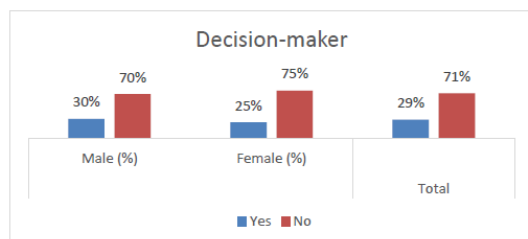
|                    | Total     | Technical Staff |           |             |             | Total       |
|--------------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|                    |           | Male            | Female    | Male (%)    | Female (%)  |             |
| None               | 69        | 38              | 31        | 79%         | 91%         | 84%         |
| 0-1 year           | 5         | 2               | 3         | 4%          | 9%          | 6%          |
| 1-5 years          | 5         | 5               | 0         | 10%         | 0%          | 6%          |
| 5-10 years or more | 3         | 3               | 0         | 6%          | 0%          | 4%          |
| <b>Total</b>       | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.3. Do you have knowledge/information about urbanization trends in your country?

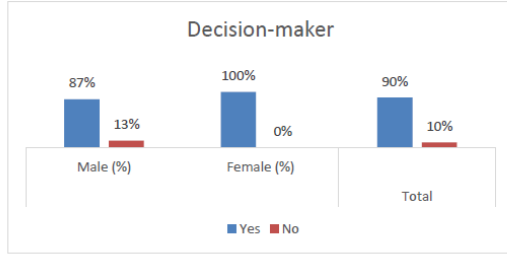
|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 9         | 7              | 2        | 30%         | 25%         | 29%         |
| No           | 22        | 16             | 6        | 70%         | 75%         | 71%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 25        | 19              | 6         | 40%         | 18%         | 31%         |
| No           | 56        | 29              | 27        | 60%         | 82%         | 69%         |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

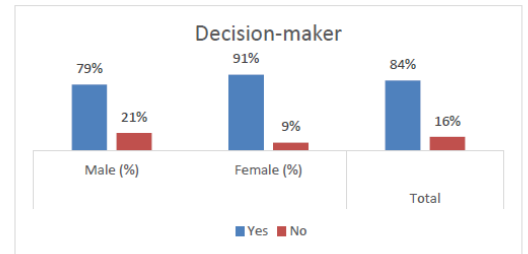


6.4. Do you think spatial planning and climate change are related?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 28        | 20             | 8        | 87%         | 100%        | 90%         |
| No           | 3         | 3              | 0        | 13%         | 0%          | 10%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

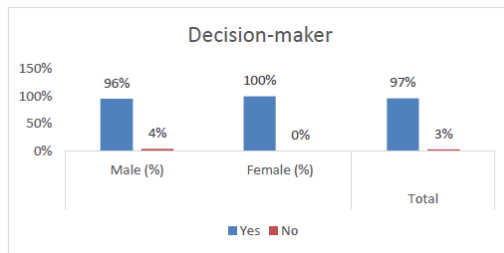


|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 68        | 38              | 30        | 79%         | 91%         | 84%         |
| No           | 13        | 10              | 3         | 21%         | 9%          | 16%         |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

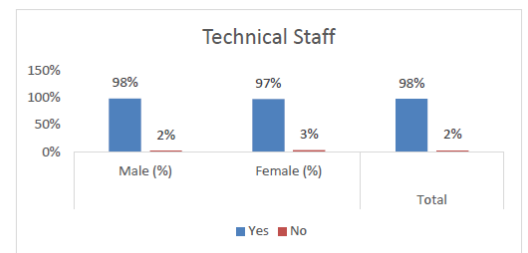


6.5. In your view, do you think encouraging multi-sectoral approaches at the local level is relevant to improve sustainable development and adapt to climate change?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 30        | 22             | 8        | 96%         | 100%        | 97%         |
| No           | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

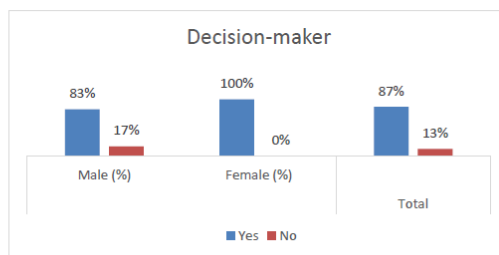


|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 79        | 47              | 32        | 98%         | 97%         | 98%         |
| No           | 2         | 1               | 1         | 2%          | 3%          | 2%          |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

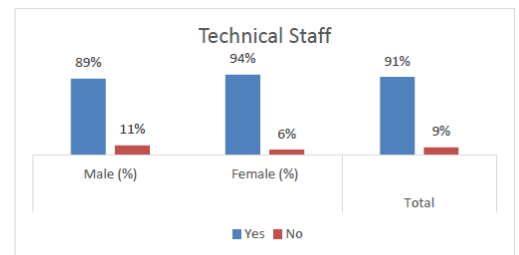


6.6. In your opinion, is solid waste disposal an issue in your province/district/city?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 27        | 19             | 8        | 83%         | 100%        | 87%         |
| No           | 4         | 4              | 0        | 17%         | 0%          | 13%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



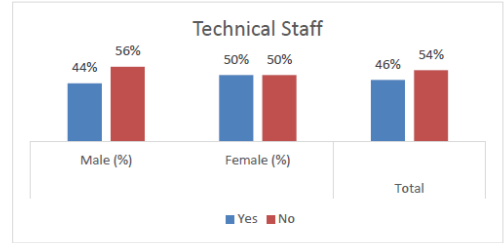
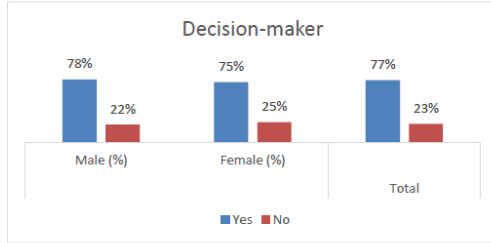
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 73        | 41              | 32        | 89%         | 94%         | 91%         |
| No           | 7         | 5               | 2         | 11%         | 6%          | 9%          |
| <b>Total</b> | <b>80</b> | <b>46</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.7. If related to your institution mandate, does your institution have the capacity to improve solid waste management?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 24        | 18             | 6        | 78%         | 75%         | 77%         |
| No           | 7         | 5              | 2        | 22%         | 25%         | 23%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

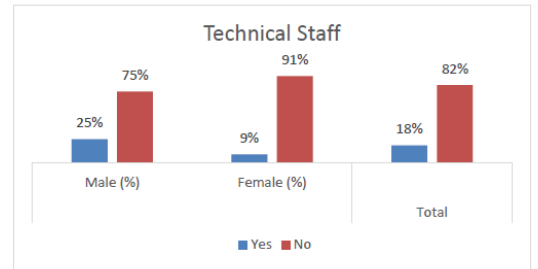
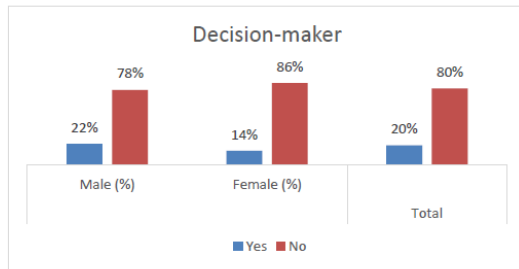
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 38        | 21              | 17        | 44%         | 50%         | 46%         |
| No           | 44        | 27              | 17        | 56%         | 50%         | 54%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.9. Have you ever been engaged in activities focusing on land-use?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 6         | 5              | 1        | 22%         | 14%         | 20%         |
| No           | 24        | 18             | 6        | 78%         | 86%         | 80%         |
| <b>Total</b> | <b>30</b> | <b>23</b>      | <b>7</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

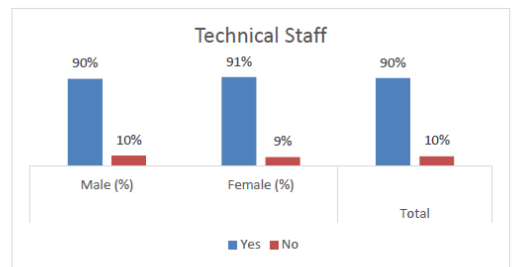
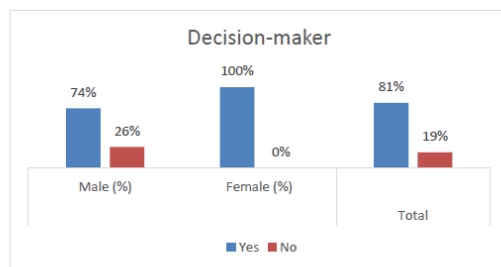
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 15        | 12              | 3         | 25%         | 9%          | 18%         |
| No           | 67        | 36              | 31        | 75%         | 91%         | 82%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.10. In your view, are wetlands and urban streams valuable for the sustainable development of human settlements?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 25        | 17             | 8        | 74%         | 100%        | 81%         |
| No           | 6         | 6              | 0        | 26%         | 0%          | 19%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

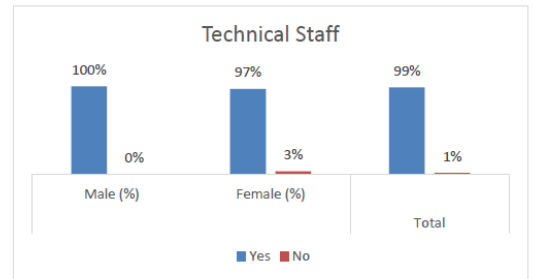
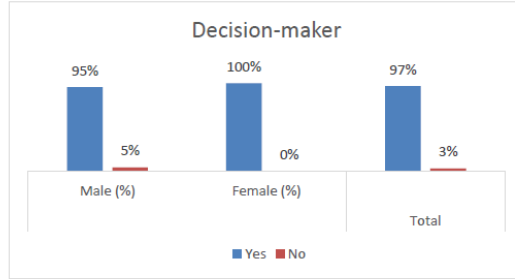
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 74        | 43              | 31        | 90%         | 91%         | 90%         |
| No           | 8         | 5               | 3         | 10%         | 9%          | 10%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.11. In your opinion, is there a need to further protect natural streams and rivers in your province/district/city?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 29        | 21             | 8        | 95%         | 100%        | 97%         |
| No           | 1         | 1              | 0        | 5%          | 0%          | 3%          |
| <b>Total</b> | <b>30</b> | <b>22</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

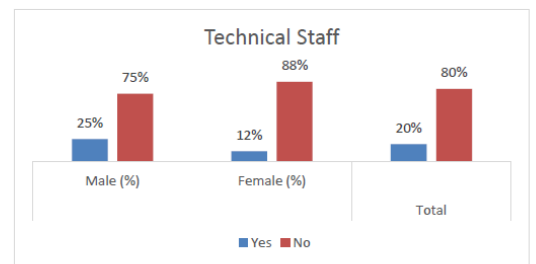
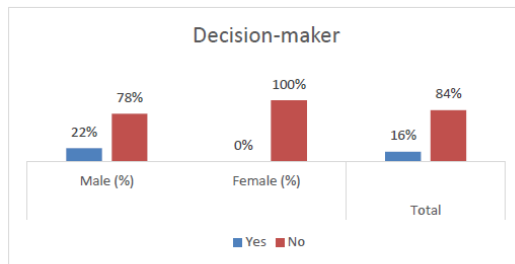
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 81        | 48              | 33        | 100%        | 97%         | 99%         |
| No           | 1         | 0               | 1         | 0%          | 3%          | 1%          |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



6.12. Do you have knowledge/information about waterway buffer zones regulations?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 5         | 5              | 0        | 22%         | 0%          | 16%         |
| No           | 26        | 18             | 8        | 78%         | 100%        | 84%         |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 16        | 12              | 4         | 25%         | 12%         | 20%         |
| No           | 66        | 36              | 30        | 75%         | 88%         | 80%         |
| <b>Total</b> | <b>82</b> | <b>48</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

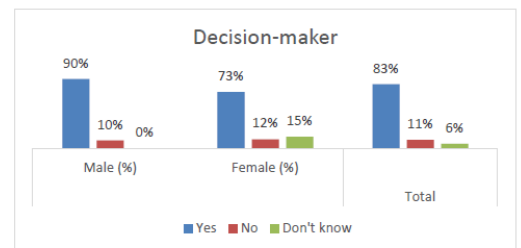
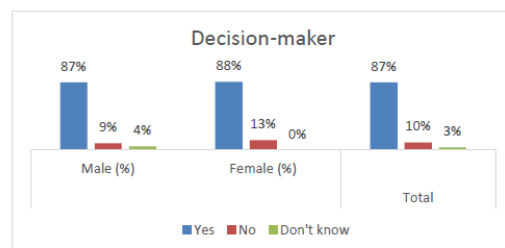


## Section 7. Training Delivery and evaluation method

7.1. Do you feel confident in asking questions or sharing your opinion?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 27        | 20             | 7        | 87%         | 88%         | 87%         |
| No           | 3         | 2              | 1        | 9%          | 13%         | 10%         |
| Don't know   | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

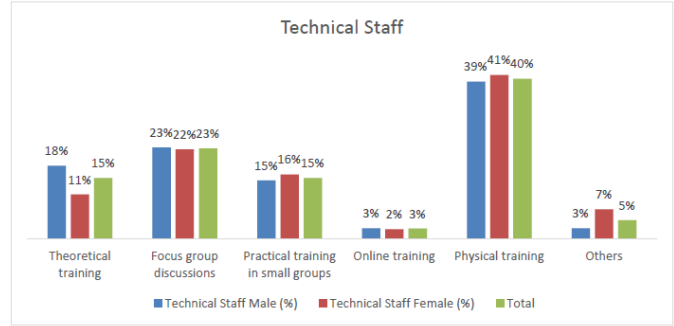
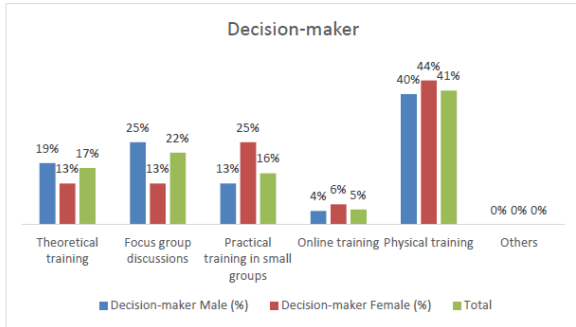
|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 67        | 43              | 24        | 90%         | 73%         | 83%         |
| No           | 9         | 5               | 4         | 10%         | 12%         | 11%         |
| Don't know   | 5         | 0               | 5         | 0%          | 15%         | 6%          |
| <b>Total</b> | <b>81</b> | <b>48</b>       | <b>33</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



7.2. Which training method is the most effective for you?

|                                    | Total     | Decision-maker |           |             |             | Total       |
|------------------------------------|-----------|----------------|-----------|-------------|-------------|-------------|
|                                    |           | Male           | Female    | Male (%)    | Female (%)  |             |
| Theoretical training               | 11        | 9              | 2         | 19%         | 13%         | 17%         |
| Focus group discussions            | 14        | 12             | 2         | 25%         | 13%         | 22%         |
| Practical training in small groups | 10        | 6              | 4         | 13%         | 25%         | 16%         |
| Online training                    | 3         | 2              | 1         | 4%          | 6%          | 5%          |
| Physical training                  | 26        | 19             | 7         | 40%         | 44%         | 41%         |
| Others                             | 0         | 0              | 0         | 0%          | 0%          | 0%          |
| <b>Total</b>                       | <b>64</b> | <b>48</b>      | <b>16</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

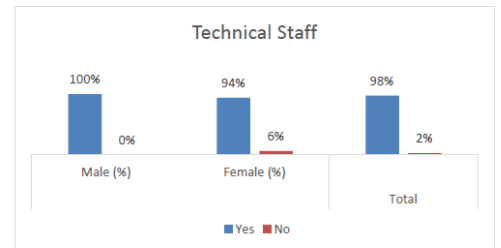
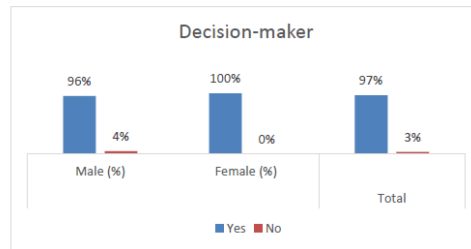
|                                    | Total      | Technical Staff |           |             |             | Total       |
|------------------------------------|------------|-----------------|-----------|-------------|-------------|-------------|
|                                    |            | Male            | Female    | Male (%)    | Female (%)  |             |
| Theoretical training               | 29         | 20              | 9         | 18%         | 11%         | 15%         |
| Focus group discussions            | 43         | 25              | 18        | 23%         | 22%         | 23%         |
| Practical training in small groups | 29         | 16              | 13        | 15%         | 16%         | 15%         |
| Online training                    | 5          | 3               | 2         | 3%          | 2%          | 3%          |
| Physical training                  | 76         | 43              | 33        | 39%         | 41%         | 40%         |
| Others                             | 9          | 3               | 6         | 3%          | 7%          | 5%          |
| <b>Total</b>                       | <b>191</b> | <b>110</b>      | <b>81</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



7.3. Do you think presenting case studies may help you to better learn?

|              | Total     | Decision-maker |          |             |             | Total       |
|--------------|-----------|----------------|----------|-------------|-------------|-------------|
|              |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Yes          | 30        | 22             | 8        | 96%         | 100%        | 97%         |
| No           | 1         | 1              | 0        | 4%          | 0%          | 3%          |
| <b>Total</b> | <b>31</b> | <b>23</b>      | <b>8</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|              | Total     | Technical Staff |           |             |             | Total       |
|--------------|-----------|-----------------|-----------|-------------|-------------|-------------|
|              |           | Male            | Female    | Male (%)    | Female (%)  |             |
| Yes          | 79        | 47              | 32        | 100%        | 94%         | 98%         |
| No           | 2         | 0               | 2         | 0%          | 6%          | 2%          |
| <b>Total</b> | <b>81</b> | <b>47</b>       | <b>34</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |



7.4. In order to evaluate the impact of training, which method will be the most appropriate for you?

|                | Total     | Decision-maker |          |             |             | Total       |
|----------------|-----------|----------------|----------|-------------|-------------|-------------|
|                |           | Male           | Female   | Male (%)    | Female (%)  |             |
| Mid_term_final | 20        | 15             | 5        | 52%         | 56%         | 53%         |
| Short_survey   | 13        | 11             | 2        | 38%         | 22%         | 34%         |
| Final          | 5         | 3              | 2        | 10%         | 22%         | 13%         |
| Others         | 0         | 0              | 0        | 0%          | 0%          | 0%          |
| <b>Total</b>   | <b>38</b> | <b>29</b>      | <b>9</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

|                | Total      | Technical Staff |           |             |             | Total       |
|----------------|------------|-----------------|-----------|-------------|-------------|-------------|
|                |            | Male            | Female    | Male (%)    | Female (%)  |             |
| Mid_term_final | 50         | 28              | 22        | 44%         | 45%         | 45%         |
| Short_survey   | 40         | 22              | 18        | 35%         | 37%         | 36%         |
| Final          | 15         | 9               | 6         | 14%         | 12%         | 13%         |
| Others         | 7          | 4               | 3         | 6%          | 6%          | 6%          |
| <b>Total</b>   | <b>112</b> | <b>63</b>       | <b>49</b> | <b>100%</b> | <b>100%</b> | <b>100%</b> |

