**Interviews and Focus Group Discussion Guide for Developing CLDs**

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| Interview Guide for Developing Causal Loop Diagrams | | |
| Specific dimensions/topics | Questions | Suggested probes |
| Introduction/background | 1. Please indicate what are your designations /departments that you belong to and describe the nature of your role in the organisation as well as your main responsibilities and duties. 2. How long have you worked in this organisation? How long have you worked in Disaster Management (DM)? 3. Did you work in DM during the recent disaster period? Where exactly and for how long? | Ask about living in the community for community members. |
| Resilience Problems and Issues | 1. Can you confirm that the [Selected Hazard] is the main resilience issue facing [Community name]? | * Hazards Identified in Area:  1. Flooding 2. Earthquake 3. Storms 4. Epidemics 5. Other   Write the Main Hazard Identified on Post-it and place it in the centre of the Chart. |
| Direct Causes | 1. What are the main direct causes of the [Selected Hazard]?   What are the main indirect causes of the [Selected Hazard]? | Write the causes Identified on post-it notes and place them on the Chart to the left of the Main Hazard Identified.  List as many direct and indirect causes as the respondent provides – do not prompt.  Use several columns to indicate 1st Order, 2nd Order and 3rd Order causes if needed.  Include link polarities between identified causes in the diagram. |
| Direct Causes | 1. What are the main direct consequences of the [Selected Hazard]?   What are the main indirect consequences of the [Selected Hazard]? | Write the consequences Identified on post-it notes and place them on the Chart to the right of the Main Hazard Identified.  List as many direct and indirect consequences as the respondent provides – do not prompt.  Use several columns to indicate 1st Order, 2nd Order and 3rd Order consequences if needed.  Include link polarities between identified consequences in the diagram. |
| Feedback Processes | 1. What are the primary feedback processes in the diagram? | Explore and probe for links between the Consequences and Causes for any feedback processes. |
| Policies (Short Term) | 1. What short-term policies can be adopted to solve this resilience problem? |  |
| Policies (Long Term) | 1. What long-term policies can be adopted to solve this resilience problem? |  |
| Hurdles | 1. What are the main hurdles to the success of these policies? |  |

**Interview Guide for Q-Sort Exercise**

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| Focus Group Discussion Guide for Social Resilience Expert Panel | | |
| Specific dimensions/topics | Questions | Suggested probes |
| Introduction/background | 1. Please indicate what are your designations /departments that you belong to and describe the nature of your role in the organisation as well as your main responsibilities and duties. 2. How long have you worked in this organisation? How long have you worked in Disaster Management (DM)? 3. Did you work in DM during the recent disaster period? Where exactly and for how long? | Ask about living in the community for community members. |
| Place Cards of Indicators (with explanations and example measures) on the table along with Q-Sort Table Chart | | |
| Social resilience Indicators | 1. Please arrange the indicators below according to their importance for inclusion in assessing a community's social resilience. | Observe the placement of Cards on the Q-Sort Table Chart. |
| The Three Most Important Indicators | 1. Please explain why you chose these three Indicators as the most important. | Ask about each in turn and note the reasoning behind the selection. |
| The Three Least Important Indicators | 1. Please explain why you chose these three Indicators as the least important. | Ask about each in turn and note the reasoning behind the selection. |

**Artifact Validation Workshop Guide**

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| Focus Group Discussion Guide for Validation Workshop | | |
| Specific dimensions/topics | Questions | Suggested probes |
| Section 1: Respondent Background | | |
| Introduction/background | 1. Please indicate what are your designations /departments that you belong to and describe the nature of your role in the organisation as well as your main responsibilities and duties. 2. How long have you worked in this organisation? How long have you worked in Disaster Management (DM)? 3. Did you work in DM during the recent disaster period? Where exactly and for how long? | Ask about living in the community for community members. |
| Section 2: Using Community Resilience Frameworks | | |
|  | 1. Have you or your department/community used a resilience framework, tool, model, or scorecard for measuring resilience? 2. To your knowledge, how often are the CDR frameworks used before designing DRR interventions in Pakistan? 3. If yes to Q1, then When do you or your organisation utilise CDR frameworks or similar tools? | a) Yes, many times  b) Yes, once  c) No  d) I don’t know/not sure  If used? Name of other tool(s) used:\_\_\_\_\_\_\_\_\_\_\_  a) Never  b) Rarely  c) Frequently  d) Always  a) In planning stages.  b) Before starting the project.  c) During the work happening on site (as-is improvement analysis)  d) Post-work analysis (use lessons learnt for future projects) |
| Section 3: Effectiveness of Participatory Approach to Modelling Community Resilience | | |
|  | 1. Community Resilience can be effectively measured in other ways; participatory resilience modelling is not required. Do you agree with the statement? 2. Participatory resilience models produce realistic scenarios and can be applied to real-life situations and projects for process improvement. 3. What are the strengths of the Participatory approach? 4. How accurate is the CDR model? 5. Are the what-if scenarios practical? | a) Agree  b) Highly agree  c) Disagree  d) Highly disagree  a) Yes  b) Yes, but after approval by experts.  c) No  d) It depends  a) Data collection techniques  b) As-is situation capturing  c) Graphical work  d) Analysis performed  e) Other: \_\_\_\_\_  a) Accurate  b) Accurate, need minor changes  c) Inaccurate  d) Need major changes  e) Other (please elaborate)  a) Yes  b) Yes, but after minor changes  c) Yes, but after studying the process is more detail  d) No  e) Other (please elaborate) |
| Section 3: Continued | | |

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|  |  | Rating | | | | |
| No. |  | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
| 11. | More participatory tools are needed for measuring resilience at the community level. |  |  |  |  |  |
| 12. | Other tools can model community resilience, and participatory modelling is not required. |  |  |  |  |  |
| 13 | Participatory Modelling can help decision-makers make informed decisions and evaluate potential alternatives. |  |  |  |  |  |
| 14. | Participatory Modelling can help community members make informed decisions and evaluate potential alternatives. |  |  |  |  |  |

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| Section 4: Use of the Participatory Approach in the Case Study |  |

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|  |  | Rating | | | | |
| No. | Statement | Strongly Agree | Agree | Neutral | Disagree | Strongly Disagree |
| 15. | Has the use of participatory tools like CLDs been utilised properly in this Case Study |  |  |  |  |  |
| 16. | Has the use of participatory tools like Q methods been utilised properly in this Case Study |  |  |  |  |  |
| 17. | Has the use of modelling tools like System Dynamic Modelling been utilised properly in this Case Study |  |  |  |  |  |
| 18. | Has the data been collected in an appropriate way to understand the resilience issues |  |  |  |  |  |
| 19. | Data analysis was performed Professionally. |  |  |  |  |  |
| 20. | Assumptions made during the creation of the SD model are practical, and they will not affect the working of the model in real-life scenarios. |  |  |  |  |  |
| 21. | Some other tools could have been used to measure resilience similarly. |  |  |  |  |  |
| 22. | The simulation model requires further changes before replicating it in real-life scenarios. |  |  |  |  |  |
| Section 5: Suggestions | | | | | | |
| 23. How do you think this model can further be improved? Please discuss. | | | | | | |