

Appendix 2. Questions used for the semi-structured interviews

We used the key social-ecological changes' that were identified through the focus group discussions to examine the income diversification processes of resource user groups, and how these processes impact ecosystem services (i.e. aquatic species, water quality, fingerlings, and seagrass) and well-being indicators (i.e. income, the level of debts, housing, and ownership of house appliances and furniture).

1. Discussing how the resource users diversify their income sources to respond to the changes that were identified, and how diversification changed their income portfolios and livelihoods.

- How many income sources does your household currently have? Have you always depended on these sources throughout your life time?
- How many types of fishing gears do you use? Why do you use these gears? Have you always used these gears? Who practices fishing in your household? How much money does your household earn daily and monthly from fishing? Has this changed during your life time?
- Do you perform aquaculture? If so, what type? Why do you use these cultivation methods? How many and what kind of aquatic species do you cultivate? Why do you cultivate these species? Who performs aquaculture in your household? How much profit per yield (or year) you earn with aquaculture? Has this changed during your life time?
- What kind of paid labor do you perform? Who performs these jobs in your household? When did you/they start doing these jobs? How old were you/they at that time? How do you/they get these jobs? Are these good jobs (stable, sufficient income, insurance)? Why do you/they take on these jobs? Has this situation changed during your life time?
- Could you estimate how much each income source contributes to your household monthly and annual income? Has this changed during your life time?

2. Assessing ecosystem service changes.

- When did you perceive that aquatic species were most abundant? How did abundance levels change at other points in time, and why do you think these levels changed? (Ask respondents to rank the period with highest abundance level with 10 points, and rank other levels that respondents indicate with corresponding points).
- When did you perceive that the lagoon water was polluted most? How did pollution levels change at other points in time, and why do you think these levels changed? (Ask respondents to rank the period with highest pollution level with 10 points, and rank other levels that respondents indicate with corresponding points).

- When did you perceive that fingerlings were most abundant? How did abundance levels change at other points in time, and why do you think these levels changed? (Ask respondents to rank the period with highest abundance level with 10 points, and rank other levels that respondents indicate with corresponding points).
- When did you perceive that the seagrass was most abundant? How did abundance levels change at other points in time, and why do you think these levels changed? (Ask respondents to rank the period with highest abundance level with 10 points, and rank other levels that respondents indicate with corresponding points).
- Do you think that your income activities have impacted the changing levels of these benefits? Why?

3. Assessing wellbeing changes.

- How much income did your family earn the previous year? Is this the highest income that you have so far earned? If not when did you earn your highest income? (Ask respondents to rank the year with highest income with 10 points, and rank other years that respondents indicate with corresponding points). Can you explain these income fluctuations?
- How satisfied are you with your current income? Can you explain why?
- How much debt do you carry? Is this the highest debt that you have had? If not when did you owe the highest debt? (Ask respondents to rank the year with highest income with 10 points, and rank other years that respondents indicate with corresponding points). Can you explain these fluctuations of your debt?
- When did you build your house? Is this the most convenient house that you have owned? If not when did you own the most convenient house? What kind of house did you have at this point in time?
- How satisfied are you with your current house? Can you explain why?
- What sort of household goods (e.g. appliances and furniture) does your family currently own? Is this the most household goods you have owned? If not at which other point in time did you own more household goods? (Ask respondents to rank the year with highest income with 10 points, and rank other years that respondents indicate with corresponding points). Can you explain these fluctuations of your household goods?
- How satisfied are you with your current household goods? Can you explain why?
- Do you think that an increase of income sources can help to improve your life? Why?