A. QUESTIONNAIRE CODE

<table>
<thead>
<tr>
<th>QUESTIONNAIRE CODE</th>
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<tbody>
<tr>
<td>INTERVIEWER</td>
<td></td>
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<tr>
<td>DATE</td>
<td></td>
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<tr>
<td>VILLAGE / COMMUNE / DISTRICT / PROVINCE</td>
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B. GENERAL INFORMATION

<table>
<thead>
<tr>
<th>Interviewee name</th>
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<tbody>
<tr>
<td>Age</td>
<td></td>
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<tr>
<td>Sex/Gender</td>
<td></td>
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<tr>
<td>Number of people in HH</td>
<td></td>
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<tr>
<td>Number of labourers in HH</td>
<td></td>
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<tr>
<td>Number of people in HH farming seaweed</td>
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C. SUSTAINABLE SEAWEED FARMING PROJECT

Understanding and expectations of the sustainable seaweed farming project

1. To what extent are you aware of the concept of sustainable seaweed farming?
   i. Very aware
   ii. Aware
   iii. Not aware

2. What are your views on the usefulness of sustainable seaweed farming?
   i. Very useful
   ii. Useful
   iii. Not useful

3. How effective are the current seaweed farming practices?
   i. Very effective
   ii. Effective
   iii. Not effective

D. CURRENT SEAWEED FARMING PRACTICES
1. When did you start farming seaweed?
   ...

2. Which seaweed species do you farm?
   i. Cottonii
   ii. Spinosum
   iii. Gracillaria
   iv. Others (mention...)

3. What seaweed farming technique do you use/practice?
   i. off-bottom
   ii. deep water longlines
   iii. floating
   iv. tube-net
   v. Others (mention...)

4. How many farms do you own?
   i. 1
   ii. 2
   iii. 3
   iv. More (mention ...)

   (If more than 1, how far apart are they?)

5. What size is your farm?
   ...

6. How many people work on your farm?
   ...

7. What is the length of your cultivation lines?
   i. \( \leq 5 \) m
   ii. \( 6 - 10 \) m
   iii. \( \geq 10 \) m

8. What is your average wet production per line? (50 kg rice woven plastic bag)
   i. 1 – 5 bags
   ii. 6 – 10 bags
   iii. 11 – 15 bags
   iv. More (mention...)

9. What is your average dry production per seaweed cultivation cycle?
   i. \( \leq 100\)kg
10. What is your desired dry production in kilogram per production cycle?
   i.  ≤ 100 kg
   ii. 100-250 kg
   iii. 251-500 kg
   iv. ≥ 500 kg

11. What other coastal related activities do you engage with apart from seaweed farming?
   i. Fishing
   ii. Intertidal gleaning
   iii. Shellfish/Sea cucumber farms
   iv. Others (mention ...)

TOOLS

12. What farming tools do you use?
   ☐ mining bar ☐ harvest boat ☐ shoes ☐ diving goggles ☐ stakes ☐ flotatation devices
   ☐ hammer ☐ lighter for burning rope fringe ☐ knife ☐ anchors ☐ ropes

13. Where do you get your farming inputs from
   i. Self-purchased
   ii. Self-purchased and Government
   iii. Self-purchased and C-Weed
   iv. Other donors

14. Which tools/ farming inputs are you given by the C-Weed Corporation?
   ☐ mining bar ☐ harvest boat ☐ shoes ☐ diving goggles ☐ stakes ☐ flotatation devices
   ☐ hammer ☐ lighter for burning rope fringe ☐ knife ☐ anchors ☐ ropes

15. What size ropes do you use for a farming circle?
   i. 4mm for main cultivation lines, 1 or 2mm for loops
   ii. 4mm for main cultivation lines, 1 or 2mm for loops, 10mm for farm structure

16. Which ropes tying method do you use / how do you tie them?
   i. CWeed Double Made Loop system, fix 2 loops every 20cm
   ii. Traditional rope tying method
17. What do you do with your rope when it's damaged?
   i. Dispose them offshore
   ii. Dispose them at sea
   iii. Provide to CWeed and they replace it for new
   iv. Others (mention...)

18. How do you store your ropes?
   i. Cool ventilated place
   ii. Dry surface
   v. Woven sac bags
   vi. Others (mention...)

19. What do you use as floats for your seaweed lines?
   i. Small buoys
   ii. Plastic bottles
   iii. Styrofoam materials
   iv. None
   v. Others (...)

20. Which stakes/pegs/sticks do you use to anchor the seaweed lines?
   i. Land-based trees
   ii. Mangrove trees
   iii. Both

21. What are your reasons for stake source of choice?
   i. Readily available (not seasonal)
   ii. Close proximity to farm areas
   iii. The only option available
   iv. Not restricted to use
   v. Others

22. How many mangrove stakes do you use for your farm?
   i. ≤ 10 stakes
   ii. ≤ 20 stakes
   iii. ≤ 30 stakes
   iv. More (mention ...)

PRACTICES

23. How much seaweed in grams do you plant per tie-tie and per cultivation rope/line?
   i. ≤ 50g
   ii. 51 - 100 g
iii. 101 - 150 g
iv. 151 - 200 g
v. ≥ 200g

24. How often do you maintain and clean your ropes (clean off organisms and dip in fresh water)?
   i. At regular intervals, each low tide
   ii. At end of each cultivation cycle

25. What is the minimum depth of water during low tide at your farm site?
   i. Ankle height
   ii. Knee height
   iii. Waist height
   iv. Above waist height
   v. Covered on one end & exposed at the other end

26. How is the substrate at your farm site?
   i. Sandy
   ii. Rocky
   iii. Muddy
   iv. Seagrass bed
   v. Corals

27. Where do you get your seaweed seeds from?
   i. Within the farm
   ii. From CWeed
   iii. From other farmers
   iv. Bought from other villages

28. Do you have a community farm where you can get your seedlings from?
   i. Yes
   ii. No

29. Do you have seaweed farming seasonal calendar?
   i. Yes
   ii. No
   (if Yes, elaborate)

30. Would it be useful to have seaweed farming seasonal calendar?
   i. Yes
   ii. No

31. How many seaweed production cycles do you cultivate per year?
   i. ≤ 4 times
ii. \( \leq 6 \) times
iii. \( \leq 8 \) times
iv. More (mention ...)

32. Do you farm during rainy seasons?
   i. Yes
   ii. No

33. How many days during rainy season low tides do you attend your farm?
   i. \( \leq 2 \) days
   ii. \( \leq 4 \) days
   iii. \( \leq 6 \) days

34. Do you engage in other activities instead of seaweed farming during the rainy season?
   i. Yes
   ii. No

   (if yes, elaborate)

35. Where do you prepare your lines for farming?
   i. At the farm
   ii. On the shore
   iii. At home

36. How long is the production cycle from the planting to the harvesting stage?
   i. \( \leq 45 \) days
   ii. \( \leq 60 \) days
   iii. \( \leq 90 \) days
   iv. \( \leq 120 \) days

37. What sort of diseases have you encountered in your farms?
   i. Ice-ice
   ii. Epiphytes
   iii. Others (mention ...)

38. What do you do when ice-ice or epiphytes happens?
   i. Remove immediately
   ii. Do not use as seedlings
   iii. Relocate farm area
   iv. Keep on farming infected seaweeds

39. Are you aware of tube net farming method?
   i. Yes
   ii. No

40. Have you ever used it before?
i. Yes
ii. No

(if yes, do you still use it?)

41. Are you aware of floating raft method?
   i. Yes
   ii. No

42. Have you ever used this method?
   i. Yes
   ii. No

(if yes, do you still use it?)

43. How do you arrange or design your cultivation line parallel to major current?
   i. Yes
   ii. No

44. Are you aware of standardization of farms?
   i. Yes
   ii. No

45. How often do you attend your seaweed farm for maintenance after planting and before harvest?
   i. ≤ 3 days each low tide
   ii. ≤ 4 days each low tide
   iii. ≤ 5 days each low tide
   iv. ≤ 6 days each low tide

46. How do you maintain your farm?
   i. Ensure seaweed is always below water
   ii. Shake ropes to remove sediment and other seaweeds
   iii. Repair damaged/entangled ropes and stakes
   iv. Replace missing seaweed fronds
   v. All the above

47. Do you have any grazers around your farm?
   i. Fish
   ii. Sea urchins
   iii. Turtles
   iv. Others (mention...)

48. What environmental challenges do you face as a seaweed farmer?
   i. Presences of itchy insects, stone fish, sting rays and jelly fish
49. Do you have any farm waste management systems?
   i. Yes
   ii. No
   (if yes, elaborate)

50. Have you ever encountered theft?
   i. Yes
   ii. No

51. What actions did you take when you encountered theft?
   i. Report to village leaders
   ii. Report to the seaweed committee
   iii. Resolve matters by yourself
   iv. Did nothing

HARVEST AND DRYING

52. Do you own or have access to harvesting boats?
   i. Yes
   ii. No

53. Do you have engines for these boats?
   i. Yes
   ii. No

54. In what weather do you harvest your seaweed?
   i. Dry sunny days
   ii. Rainy days
   iii. Both

55. Where do you store your seaweed after harvest?
   i. Cool and dry surface at home
   ii. Community storage facilities
   iii. Others (explain...)

56. Where do you dry your seaweed?
   i. On drying rack
   ii. On tarp/ sewed together woven sacs
   iii. On rocks
   iv. On short grass
   v. On bare grounds
57. How do you preserve quality during drying
   i. Place 5-10 cm layers of seaweed
   ii. Regularly flip seaweed
   iii. Remove impurities (other seaweeds, etc.) from seaweed
   iv. All the above

58. How do you shelter your seaweed during rainy season?
   i. under tarp
   ii. in building
   iii. others (mention...)

59. How many days does it take to dry your seaweed?
   i.  ≤ 1 day
   ii.  ≤ 2 days
   iii.  ≤ 3 days
   iv.  More (mention ...)

60. Do you sell your seaweed immediately after drying?
   i. Immediately after drying
   ii. Accumulate to increase amount

MARKETING AND PROCESSING

61. Do you know what seaweed are used for?
   i. Yes
   ii. No

   (if Yes, elaborate)

62. Do you have other use of seaweeds apart from selling to earn money?
   i. Just for sell
   ii. Process value added products (soaps, oils, lotions, etc.)
   iii. Use in food (salads, juice, stews, etc.)
   iv. Others (mention...)

63. What is your approximated yearly income from seaweed farming?
   i.  ≤ 1 M
   ii.  ≤ 2 M
   iii.  ≤ 3 M
   iv.  ≤ 4 M
   v.  More (mention...)

64. How much do you wish you were earning?
i. \( \leq 1 \text{ M} \)
ii. \( \leq 2 \text{ M} \)
iii. \( \leq 3 \text{ M} \)
iv. \( \leq 4 \text{ M} \)
v. More (mention...)

65. In what position does seaweed farming set you as a woman?
   i. Earns respect and ability to have a say in the community
   ii. Gives ability to be less dependent on husband / parents
   iii. Gives the ability to take care of the family and children
   iv. Others (mention...)

66. Do you have any system for financial management?
   i. VICOBA
   ii. Upatu
   iii. Business investment
   iv. Others (mention...)

ENVIRONMENT

67. Are there seagrass in your farm site?
   i. Yes
   ii. No

68. Do you know what coral reefs are?
   i. Yes
   ii. No

69. Are there coral reefs close to your farm area?
   i. Yes
   ii. No

70. Do you know the importance of coral reefs and seagrasses?
   i. Yes
   ii. No
   (If yes, elaborate)

71. What measure do you take to ensure you are not destroying the coral reefs and seagrasses?
   i. Avoid placing farm on corals and seagrasses
   ii. Avoid tying on to corals
   iii. Avoid uprooting seagrass
   iv. Others (mention ...)

CONFLICTS WITH OTHER OCEAN USERS

1. Where is your farm sited in relation to other marine activities?
   i. Area with just seaweed farming
   ii. Fishing area
   iii. River mouth
   iv. Others (mention...)

2. What are the conflicts present around your working environment?
   i. Other farmers crossing farm boundaries
   ii. Fishermen fishing inside the farms
   iii. Boats passing through farms
   iv. Others (mention...)

3. What are the conflict management systems in place?
   i. Village leaders interventions
   ii. Seaweed committee interventions
   iii. Resolve by yourselves
   iv. None

4. How effective are the conflict management system?
   i. Very effective
   ii. Effective
   iii. None effective

5. Do you think there is a need for a local mapping and zoning approach?
   i. Yes
   ii. No