# INTERVIEW SCHEDULE

1. **Name**
   - ............................................

2. **Age**
   - a. Below 25
   - b. 25 to 50
   - c. Above 50

3. **Religion**
   - a. Hindu
   - b. Christian
   - c. Muslim
   - d. others

4. **Sex**
   - a. Male
   - b. Female

5. **Educational Qualification**
   - a. Illiterate
   - b. Primary
   - c. Secondary
   - d. College
   - e. Professional
6. Family Income (total) :

7. Family Members

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8. How long have you been a resident of Kuttanad?
   a. Less than 5 years
   b. 5-10 years
   c. 10-15 years
   d. Above 15 years

9. Source of Drinking Water
   a. Public Tap
   b. Well
   c. Pond
   d. Canal Water

10. Are you a traditional Agriculturist?
    a. Yes
    b. No
11. How many acres of paddy field you posses?
   a. Below 1 acre
   b. 1-3 acres
   c. Above 3

12. Nature of Ownership
   a. owned
   b. Lease
   c. Share Cropping

13. Compared to previous years, have you reduced the area under cropping?
   a. Reduced
   b. Not reduced

14. If, reduced, how many acres?
   a. Below 25%
   b. 25-50%
   c. Above 50%
   d. Full

15. Have you switched over to some other crop?
   a. Switched
   b. Not switched

16. If, switched, state the crop
   a. Coconut
   b. Fish Farming
17. Reason for Switching (Rank)
   a. Lack of profitability
   b. Labour problems
   c. Marketing of products
   d. Flood and other natural calamities

18. Are the changes made related to environmental changes?
   a. Yes
   b. No

19. If yes, due to what? (Rank)
   a. Flood havoc
   b. Salinity intrusion
   c. Breaches of Bunds
   d. Water pollution
   e. Irrigation and dewatering obstruction

20. What are the fundamental reasons behind it? (Rank)
   a. Wrong development activities
   b. Modern agricultural practices
   c. The wrong perceptions

21. Have you reduced the frequency of Cultivation?
   a. Yes
   b. No
22. If yes, state the reasons (Rank)
   a. Lack of profitability ☐
   b. Labour problems ☐
   c. Marketing of products ☐
   d. Flood and other natural calamities ☐

23. Do you follow mixed farming?
   a. Yes ☐
   b. No ☐

24. If yes, state the mode of operation
   a. …………………
   b. …………………
   c. …………………

25. Have you ever converted your wet land into dry land?
   a. Yes ☐
   b. No ☐

26. If, Yes, how much acreage?
   a. Below 25% ☐
   b. 25-50% ☐
   c. Above 50% ☐
   d. Full ☐

27. State the reasons (Rank)
   a. Lack of profitability ☐
   b. Labour problems ☐
c. Marketing of products

d. Flood and other natural calamities

28. Which of the following impacts of environmental problems is related in the day to day life? (Rank)

a. Skin diseases

b. Diarhoeal diseases

c. Water pollution

d. Drinking water pollution

e. Flooding

f. Waste disposal

g. Transportation problem

h. Problems created by development activities

29. Have you or your family members ever been affected by any environmental degradation related diseases?

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30. Give the amount you and your family have spent in the last financial year for treatment

a. Below 500
b. 500-1000 □
c. 1000-2000 □
d. 2000 and above □

31. Do you or anybody in your family has been undergoing permanent treatment for environment borne disease?
   a. Yes □
   b. No □

32. If yes, what is the disease?
   a. Typhoid □
   b. Tuberculosis □
   c. Hepatitis □
   d. Japanese encephalitis □
   e. Fungal infection □
   f. Arthritis □
   g. Viral Fevers □
   h. Asthma □

33. The extent of using fertilizers(%) Chemical

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Organic

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### Pesticides - Chemical

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### Pesticides - Organic

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34. Give an estimate of amount spent for Fertilizers/acre (per acre)
   (Chemical)
   a. Below 500
   b. 500-1000
   c. 1000-2000
   d. Above 2000

   Organic
   a. Below 500
   b. 500-1000
   c. 1000-2000
   d. Above 2000

   Pesticides
   a. Below 500
   b. 500-1000
   c. 1000-2000
   d. Above 2000
Pesticides (organic)

a. Below 500
b. 500-1000
c. 1000-2000
d. Above 2000

35. What are the development activities that are considered necessary in Kuttanad?

a. Construction of flood barriers
b. Drainage system
c. Raising paddy bunds
d. Construction of check dam

36. What are the measures to increase agricultural production?

a. Arrest salinity
b. Raise the boundary bunds above the Mean Sea Level
c. Setting up of Turbans
d. Encourage bio-farming
e. Discourage use of chemical fertilizers
f. Produce new seeds suitable for the soil conditions of soil and that can survive flood

37. What are the administrative steps to be taken to ensure smooth agriculture? (Rank)

a. Role of Krishi Bhavan
b. Subsidies

c. Crop insurance

d. Labour pension

e. Collection of produce by Govt. or societies

f. Agriculture mechanization

g. Interaction with farmers and single window system by Govt

h. Support from voluntary organizations

38. Regulatory guidelines for maintaining ecological balance and environmental standards

a. Check water pollution

b. Increase water flow

c. Extend AC canal upto Pllathuruthy

d. Deepen the shallow portion of the Vebanad lake

e. Widen the sea face of the Tottappally spillway

39. Give your opinion about the orientation towards fish culture, agro-based industries etc increase agricultural productivity

a. Advisable

b. Not advisable

40. Do you have any solution to solve the environmental problem?

a. Yes

b. No

41. If yes, give details (Rank)
a. Provide safe drinking water
b. Give awareness regarding proper sanitation habits
c. Reduce the use of pesticides
d. Impose ban on sand mining
e. Avoid amassing of wastes
f. Keep the Thanneer Mukkam bund open at least six months to allow entry of salt water
g. Remove the latrines on the embankment
i. To increase water flow
j. Conversion to bio farming

42. Have you participated in the agitation and movements to solve the environmental problems?
   a. Yes
   b. No

43. How do you become aware of environmental problems?
   a. From own experience
   b. Newspapers
   c. Radio
   c. Television
d. Voluntary organizations
44. Are you a member of any of the various voluntary environmental organization?
   a. Yes ☐
   b. No ☐

45. If yes, state the name of the organization
   a. Kuttanad Integrated Development Society ☐
   b. Kuttanad Integrated Rural Development Programme ☐
   c. World Vision, Christian Agency for Rural Development ☐
   d. Kuttanad Vikasana Samathy ☐
   e. Gandhi Smaraka Grama Seva Kendra ☐

46. What is their mode of operation?
   a. Publication ☐
   b. Conducting Seminars ☐
   c. Enhancement of Communication ☐
   d. Development of organic farming ☐
   e. Mixed farming ☐
   f. Arrangement of loans and subsidies ☐
   g. Marketing of Products ☐
47. What are the integrated approaches taken by the Govt. to promote the economic and sustainable development?
   a. Suitable living habits and housing
   b. Improved agricultural base
   c. Broad based cottage industries
   d. Transportation facilities
   e. Medical and family planning
   f. Communication system
   g. Education

48. Give your opinion about diversion to tourism
   a. Necessary
   B. Un-necessary
AWARENESS SCALE QUESTIONS

1. Does agriculture lead to sustainable development?
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

2. Does pollution cause hurdle for sustainable development of Kuttanad?
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

3. Sustainable development is a major issue before the people of Kuttanad.
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

4. The proposed projects of Government benefit the people of Kuttanad.
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

5. The activities of Vikasana Samathies lead to clean Kuttanad.
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

6. Are environmental laws sufficient for sustainable development?
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree
7. Do you think that movement by the people is very essential to protect the environment?
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

8.1 Movement by the people is essential for the development of Kuttanad.
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

8.2 Are you aware of the various steps taken towards making people environmentally literate?
   A. Yes. B. No

9. State your opinion about the survival of kuttanad evolving a self defense mechanism
   A. Strongly Agree B. Agree C. No Opinion D. Disagree
   E. Strongly Disagree

10. Do you think that the main stream policies, strategies and programmes of Govt relied up on are turned to be irrelevant, ineffective and at times counter productive to sustainable agriculture in Kuttanad?
    A. Strongly Agree B. Agree C. No Opinion D. Disagree
    E. Strongly Disagree
APPENDIX – I

MAP OF KERALA
KUTTANAD REGION
APPENDIX - II

Paddy Fields Set for Sowing
Paddy Crop Ready for Harvesting

Harvesting by Machine
Collection after Harvesting
Threshing by Machine
Drying in the Sunlight

Grain Ready for Procurement
Loading the Grain

Flood Havoc
Flood Havoc

Spread of African Payal
Kuttanad Padasekharam - The Vast Sheet of Water

Vembanad Lake
Thottappally Spillway

Thaneermukkom Bund
Kuttanad Back Waters