Appendix A

APPENDIX

A.1 Selection of Sample Size

The present study used the following formulas for selecting sample size of population.

\[ n_0 = \left( \frac{Z^2 pq}{e^2} \right) \]  \hspace{1cm} (A.1)

And

\[ \text{Sample Size}(n) = \frac{n_0}{1 + \frac{(n_0-1)}{N}} \]  \hspace{1cm} (A.2)

where, \( n_0 = \) sample size, \( N = \) population size, \( Z^2 = \) abscissa of the normal curve that cuts of an are \( \alpha \) at the tails (1- \( \alpha \) equals the desired confidence level e.g., 95\%) or it is \( z \) score, \( p = \) estimated portion of an attribute that is present in population and \( q = 1 - p \), \( e \) = desired level of precision or error.

The study substituted the A.2 to study data as, 

\[ n_0 = \frac{1.96^2(0.5)(0.5)}{0.05^2} = 385, \]  

where the total sample size is 

\[ n = \frac{n_0}{1 + \frac{n_0}{N}} = \frac{385}{1 + \frac{384}{8862}} = 370. \]  

Thus, the minimum number of sample size to be collected is 370. \( N \) is the total number of small-scale motorised boats in Kerala.

A.2 Economic Parameters

The study used the following basic calculations for measuring the economic performance of each motorised fishing crafts.

\[ GM_i = TR_i + TVC_i \]  \hspace{1cm} (A.3)

\[ TR_i = \sum_{i=1}^{n} PY \]  \hspace{1cm} (A.4)
\[ TVC_i = \sum_{i=1}^{n} PX \]  
(A.5)

\[ GM_{Ci} = \sum_{i=1}^{n} PY - \sum_{i-j}^{n} PX \]  
(A.6)

\[ GM_{Ci} = \text{gross margin of } i^{th} \text{ fishing boat} \]

\[ TR_i = \text{Total revenue of } i^{th} \text{ fishing boat} \]

\[ TVC_i = \text{Total variable cost of } i^{th} \text{ fishing boat} \]

\[ X = \text{quantity of inputs} \]

\[ P = \text{price of inputs} \]

\[ Y = \text{yield of } i^{th} \text{ fishing boat} \]

### A.3 Questionnaire of the Study

The study used the following questionnaire for collecting the primary data from the fishermen of selected study areas. The questionnaire contains 89 open ended and closed ended questions, mainly segregated into six parts. Each part of the questionnaire focused on each objective of the study. Maximum two fishermen (out of six or ten) from a small-scale motorised boats were made to fill a questionnaire at a time. This is done in order to avoid bias in the results of the primary data.
Questionnaire

ICT Tools’ Diffusion, Determinants, and its Economic Performance on Small-Scale Motorised Fishing Boats in Kerala: A Case Study
(The information are used only for research purpose and will be kept as secret)

1 General Information

1. Name __________________________
2. District & Village __________________________
3. Household Details

<table>
<thead>
<tr>
<th>Member</th>
<th>Sex</th>
<th>Age</th>
<th>Religion</th>
<th>Marital status</th>
<th>Education</th>
<th>Occupation</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2</td>
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<td>3</td>
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<td>4</td>
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</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

Codes
- Female 1
- Male 2
- Christian-1
- Hindu-2
- Muslims-3
- Others 4
- Unmarried-1
- Married-2
- Divorced-3
- Illiterate 0
- Primary 1
- Secondary 2
- SSLC 3
- Graduation 4
- Fishing 1
- Gulf 2
- Unskilled 3
- Skilled 4

4. Type of House
   - Pucca
   - Katcha
   - Semi

5. Electricity
   - Yes
   - No

6. Do you hear radio?
   - Yes
   - No

7. Purpose of Radio
   - News
   - Entertainment
   - Fishing related news
   - Weather Information
   - Others

8. Do you use TV
   - Yes
   - No

9. Purpose of TV
   - News
   - Entertainment
   - Fishing related news
   - Weather Information
   - Others

10. Do you use Computer?
    - Yes
    - No

11. Purpose of Computer
    - Watching movies
    - Watching new fishing technology use
    - Watching training programme
    - Others

12. Do you use Computer with internet facilities?
    - Yes
    - No

13. if yes, Purpose?
    - Updating fish price
    - Updating fishing seasons
    - Updating new technology
    - Entertainment

14. Please fill in the given column

<table>
<thead>
<tr>
<th>Types of gear</th>
<th>Types of craft</th>
<th>Owned/Leased</th>
<th>Year of purchase</th>
<th>Size (in ft)</th>
<th>Total labours</th>
<th>Cost of c,g &amp;e</th>
<th>HP of engine</th>
<th>Life expectancy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motorised(IBM)</td>
<td>Trawler</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gillnetter &amp; Liners</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others if any</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motorised (OBM)</td>
<td>Plywood boat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fibre glass boat</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

15. Is your crafts old?
    - Yes
    - No

16. If old, how many years old?
    - 1-3
    - 4-6
    - 7-9
    - 10-12
    - >12
2 Profile of ICT tools

17. Pls fill in the given column

<table>
<thead>
<tr>
<th>Tools</th>
<th>Year of purchase</th>
<th>Purchased Cost</th>
<th>Company</th>
<th>Times of usage (in hrs/day)</th>
<th>Usage rank</th>
<th>Distance of usage (nml)</th>
<th>No. of tools</th>
<th>Reason if not using</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobile Phone</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Echo-sounder</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wireless set</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Radar</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Beacon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others (sp.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3 Details of Crafts and ICT tools

18. From where did you buy the vessel?
   □ From SIFFS boat yards  □ Pvt. Boat yards  □ Matsysafed boat yards

19. Do your village have Fishermen Co-operative Societies?  □ Yes  □ No

20. Does the Fishermen Co-operative Society help you in fishing?  □ Yes  □ No

21. If yes, in what ways?
   □ Give loan  □ Give training of new technology  □ Give awareness of fishing  □ Helps for proper selling of fish

22. Does the Fishermen Co-operative Society help you in buying GPS, Echo, wireless & mobile?  □ Yes  □ No

23. If yes, in what ways?
   □ Give loan for buying  □ Give training to use these tools  □ Give awareness of new tools  □ Send PFZ data

24. Do you get any help from the Matsysafed/Fishermen Co-operative Society to buy the vessel?  □ Yes  □ No

25. If yes, what ways?
   □ Subsidies for new boat  □ Incentives for new technology  □ Loan  □ others

26. Does your or village get any help from Panchayat/municipality/corporation in fishing activities?  □ Yes  □ No

27. If yes, in what ways?
   □ Fishing landing centers  □ Maintain harbours  □ Financial help  □ Others

28. Did you work in trawling or mechanised boats  □ Yes  □ No

29. If yes, how many years?
   □ < 1 □ 1-5 □ 6-10 □ 11-15 □ > 15

30. From where do you get the information about ICT tools (pls tick appropetly)?

<table>
<thead>
<tr>
<th>Reasons</th>
<th>GPS</th>
<th>Echo-sounder</th>
<th>Wireless set</th>
<th>Beacon</th>
<th>Mobile phone</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advertisement</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SIFFS/CMFRI/CIFT etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NGOs</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Govt</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friends/relatives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

31. Reason for using these ICT tools (pls tick appropetly)
<table>
<thead>
<tr>
<th>Reasons</th>
<th>GPS</th>
<th>Echo-sounder</th>
<th>Wireless set</th>
<th>Beacon</th>
<th>Mobile phone</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>More advantage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saves money</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Easy to use</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less cost</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Less repair</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

32. From where do you purchase the equipments?
   - ☐ Govt. Dept
   - ☐ NGO
   - ☐ Pvt.Shop
   - ☐ Rent

33. Have you work in trawling boat after 1990s?
   - ☐ Yes
   - ☐ No

34. If yes, how many years?
   - ☐ < 1
   - ☐ 1-2
   - ☐ 3-4
   - ☐ 5-6
   - ☐ 7-8
   - ☐ > 8

35. Do trawling boats influence you to adopt any ICT tools in fishing?
   - ☐ Yes
   - ☐ No

36. If yes, which ICT tools
   - ☐ GPS
   - ☐ Echo-sounder
   - ☐ Wireless set
   - ☐ Mobile phone
   - ☐ Beacon

37. How?
   - ☐ Saw the ICT tools in TB
   - ☐ Friend from TB told
   - ☐ Worked in TB
   - ☐ Others

38. Do you think that there is enough infrastructure facilities for giving proper information regarding fishing?
   - ☐ Yes
   - ☐ No

39. How do you come to know of the emergency messages during fishing?
   - ☐ Through mobile through GPS
   - ☐ Through wireless
   - ☐ Through direct contact
   - ☐ Other(specify)

40. From whom do you come to know of the emergency messages during fishing?
   - ☐ Through Friends
   - ☐ Through coastal navy
   - ☐ Through fisheries officers
   - ☐ Other(specify)

41. Did you get any seminar/training/workshop regarding usage of ICT tools?
   - ☐ Yes
   - ☐ No

42. If yes, how
   - ☐ Weekly
   - ☐ Monthly
   - ☐ Yearly

43. Do you think that the present new ICT tools are more advantageous than radio, news paper & TV?
   - ☐ Yes
   - ☐ No

44. If yes, why
   - ☐ Ease to access
   - ☐ Spot information
   - ☐ Saves life
   - ☐ Saves money
   - ☐ Others (specify)

45. Satisfaction with present ICT tools?
   - ☐ Satisfied
   - ☐ More satisfied
   - ☐ Less satisfaction

46. Do your social culture harms to adopt ICT tools?
   - ☐ Yes
   - ☐ No

47. Do you feel difficulty to use ICT tools?
   - ☐ Yes
   - ☐ No

48. If yes, which one?
   - ☐ GPS
   - ☐ Echo-sounders
   - ☐ Mobile phone
   - ☐ Beacon
   - ☐ Wireless set

4 Productivity profile

49. You are working as
   - ☐ Technical operator
   - ☐ Manual labour
   - ☐ Food preparing
   - ☐ Others

50. How many years of fishing experience you have?
   - ☐ < 1
   - ☐ 1-5
   - ☐ 6-10
   - ☐ 11-15
   - ☐ 16-20
   - ☐ 21-25
   - ☐ > 25

51. How much nautical mile distance you use to fishing?
   - ☐ 50-100
   - ☐ 100-150
   - ☐ 150-200
   - ☐ 200-250
   - ☐ 250-300
   - ☐ > 300

52. How many days you spend for fishing per trip?
   - ☐ 1-5
   - ☐ 5-10
   - ☐ 10-15
   - ☐ 15-20
   - ☐ > 20-25

53. Type of fish you got on your last trip
<table>
<thead>
<tr>
<th>Fish type</th>
<th>Price/kg</th>
<th>Total kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sharks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oilsardine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other sardine</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anchovies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perches</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ribbon fish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Croakers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mackerel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheer fish</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tunnies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panneaid prawns</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

54. How much diesel is used in a trip (in litre)?
   - □ 500-1000
   - □ 1000-1500
   - □ 1500-2000
   - □ 2500-3000
   - □ > 3000

55. How much Petrol is used in a trip (in litre)?
   - □ < 50
   - □ 51-100
   - □ 101-150
   - □ 151-200
   - □ 201-250
   - □ > 250

56. From where do you buy diesel?
   - □ Coastal bunk
   - □ Pvt. bunk
   - □ Other

57. How much kerosene is used in a trip (in litre)?
   - □ 50-150
   - □ 150-200
   - □ 250-300

58. From where do you buy kerosene?
   - □ Pvt. agents
   - □ Ration shop
   - □ Relatives/friends
   - □ Operative societies

59. Where did you go for fishing last year?
   - □ Own coastal village
   - □ Other state
   - □ Other country

60. What are the seasonal months?
   - □ Quarter I
   - □ Quarter II
   - □ Quarter III
   - □ Quarter IV

61. How do you sell your fish?
   - □ Local market
   - □ Agent Market
   - □ E-Auction
   - □ Other

62. Which instrument is most useful for selling your fish?
   - □ Mobile phone
   - □ GPS
   - □ Echo-sounder
   - □ Wireless set

63. Give details (per trip) of fish catch

<table>
<thead>
<tr>
<th>Fishing cost</th>
<th>Rs/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bata</td>
<td></td>
</tr>
<tr>
<td>Fuel cost</td>
<td></td>
</tr>
<tr>
<td>Ice cost</td>
<td></td>
</tr>
<tr>
<td>Fish meat cost</td>
<td></td>
</tr>
<tr>
<td>Mobile charge cost</td>
<td></td>
</tr>
<tr>
<td>Maintenance cost</td>
<td></td>
</tr>
<tr>
<td>Auction charge</td>
<td></td>
</tr>
<tr>
<td>Food cost</td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
</tr>
<tr>
<td><strong>Total Revenue</strong></td>
<td></td>
</tr>
</tbody>
</table>

64. Do you have any other sources of income during the time of trawl ban?
   - □ Yes
   - □ No

65. If yes, specify?
   - □ Penson
   - □ PDS subsidies
   - □ Traditional fishing
   - □ Non-fishing work (specify)

66. Does your children help you with fish business?
   - □ Yes
   - □ No

67. If yes, specify?
   - □ Fishing
   - □ Pass the information regarding fishing
   - □ Helping to sell in right place
   - □ Other
68. Do you face any problem during fishing? □ Yes □ No

69. If yes, specify?
   □ Attack of foreign vessel □ ICT tool repairs □ Net loss □ Technical error □ All

70. Have you ever asked for any help from the authority at emergencies during fishing? □ Yes □ No

71. If yes, from where?
   □ Indian coast guard □ State Fisheries Dept. □ Fishermen Co-operative Societies

72. Did you get any life saving help from the authority? □ Yes □ No

73. If yes, what help you get?
   □ Direct help □ Communication help □ Third party help □ Others

74. Do you have any idea of the daily international market price of fish? □ Yes □ No

75. If yes, how?
   □ Friends □ News through media □ Agents □ Fish vendors □ Others

76. Are you satisfied with the present market price of fish? □ Yes □ No

77. If no, why?
   □ Middle men exploitation □ Collusion □ Obligations

78. By using GPS how much money do you save in a trip?
   □ 500-1000 □ 1000-1500 □ 1500-2000 □ 2000-2500 □ 2500-3000 □ >3000

5 Economic Status

79. Pls fill in the column given below

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Items</th>
<th>In Rs/-</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Avg income/month</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Avg saving/month</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Avg spending/month</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Domestic purpose Fishing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Purposes</td>
<td></td>
</tr>
</tbody>
</table>

80. Where do you deposit?
   □ Pvt chit □ Govt. chit □ Commercial bank □ Co-operative bank □ Post Office

81. Do you have any debt? □ Yes □ No

82. If yes, sources of debt
   □ Commercial bank □ Money lender □ Friends / Relatives □ Co-operative Bank □ Fisheries co-operative societies □ Private chit

83. What is the reason of debt??
   □ Marriage □ Interest payment □ Loan payment □ Get employment □ Purchased boats/nets □ Other

84. How long you have been a debtor (in Year)?
   □ < 1 □ 1-5 □ 6-10 □ 11-15 □ 16-20 □ > 20

85. Do you own land □ Yes □ No

86. If yes, how much?
   □ 1-5 □ 6-10 □ 11-15 □ 16-20 □ >20

87. How did you acquire the land?
   □ Earned money □ Bank loan □ Debt from others □ Inherited □ Others

6 Determinants of Adoption of ICT tools

88. Pls fill in the following columnn
<table>
<thead>
<tr>
<th>Features</th>
<th>SD</th>
<th>D</th>
<th>PA</th>
<th>A</th>
<th>SA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Friends</td>
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<td></td>
</tr>
<tr>
<td>Relatives</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Co-workers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auctioneers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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89. Further relevant information regarding above topic, if any


Thank You

Date......................

Mob.No....................
ICT TOOLS’ DIFFUSION, DETERMINANTS, AND ITS ECONOMIC PERFORMANCE ON SMALL-SCALE MOTORISED FISHING BOATS IN KERALA: A CASE STUDY

Checklist for FGD

1. General information about the locality
2. The enquirer may take note of the general profile of the fishermen on the socio-economic and cultural status
3. Details of crafts
4. Technology development before ICTs
5. Use of ICT tools (mobile phone, GPS, echo-sounder, wireless sets etc) for fishing
6. Detailed information about the year of adoption of such tools in the sector
7. The agencies/persons/ institutions through which the fishermen were made aware of the tools
8. Internal factors (ease of use, relative advantage, less price etc.) that influenced the adoption.
9. Cost of trip
10. The process of selling fish and share of revenue
11. Seasons of fishing
12. Landing details
13. Migration of fishermen
14. Benefits of each ICT tools
15. The difficulty of using ICT tools
16. Difficulty in fishing and problems in the sea
17. Level of satisfaction
18. Debt and reasons
19. Awareness about the Law of the Sea
20. Any suggestions to improve fishing related activities