Appendix-I
Questionnaire-I

Fish capture per unit effort, Paddy cum fish cultivation, Environmental ethics and Socio-economic condition of fisherman community of Chatla floodplain area

(Prepared on the basis of the guidelines of FAO 1997, 2005)

1. Name-
2. Age-
3. Address-
4. Occupation-
5. Educational Qualifications-
5. Total family members-
6. Total no. of individuals in the family (male/female)-
7. Do you have your own house or live in rented house-
8. Do you have electricity connection at home –
9. Type of latrine-
10. Source of drinking water-
11. Source of finance-
12. What are the type of fish culture (mono/poly) practised in individual level-
13. Are you a full time fisherman –
14. If part time, what is your other profession -

15. What are the implements you use for the purpose of fishing -

16. Shape, size, and manual requirement for the manufacture of the implements-

17. What are the different types of fish food used by fishermen –

18. Rate of fish foods-

19. Expenditure on fuel-

20. Rate of fishing gears-

21. From which place you buy fishing gears-

22. Do you use ice for the purpose of storing fishes –

23. If yes, then, from where you collect ice & what is the way, you follow for storing fishes-

24. Name of the vessels you use for keeping fishes-

25. Your fishing activity is seasonal or year round-

26. Do you have your own means of production, i.e., boat, nets, traps, ponds, lands –

27. Which species of fishes are most dominant-

28. Which species of fishes become most dominant in which season –

29. Which species of fishes were dominant in earlier days -

30. How much time do you spend for catching fishes -

31. How much Kgs’ of fishes become available per hour (fish catch/unit effort) –

32. What are the means of transportation (boat, motor boat etc.) you use for catching fishes –

33. What are the type and age of boats used by fishermen-

34. Do you sale your fishes at the site of catching or move to the market –

35. How far is the market from the site of catching –

36. Fish price-
a) Aratdar

b) Pikar

c) Retailer

37. By which means of transportation you bring your catches to the market –

38. What percentage of catches is consumed by the household & what percentage is sold –

39. What is your income per day –

40. What is the average total expenditure/ month required to run your family –

41. How much contribution comes from the other members of your family –

42. What is the role of women in the family –

43. Does she take part in Economic activities –

44. How many members of your family are engaged in fishing –

45. Do you feel the income is enough to maintain your family -

(Note- Procedure for catching fishes & using fishing gears should be mentioned clearly)

46. Do you have individual landed property for practising paddy cum fish cultivation- 

47. Do you practise only Boro cultivation or Boro and Sali both- 

48. How much paddy is utilised for self consumption- 

49. Do you practise paddy cum fish cultivation on seasonal basis- 

50. Water in Environ-religious ethics of your community-
Appendix-II
This 15-question questionnaire allows to estimate environmental impact on the Earth by submitting the information necessary to determine your ecological footprint. Anyone can use these results to:

- Compare footprint with the U.S. average (24 acres / person)
- Compare yourself with a follow-up measurement
- Identify opportunities to reduce your ecological footprint and its environmental impact on the Earth

**FOOD**

1) ANIMAL-BASED PRODUCTS

Animal-based products (beef, chicken, pork, fish, eggs, dairy, etc.) provide 43 percent of the calories of the average American. How often do you eat animal-based products (incl. meat, dairy, eggs, and fish)?

- 0.0 _____ Never (Vegan)
- 1.0 _____ Infrequently (a few times per week OR ovo-lacto vegetarian)
- 1.5 _____ Occasionally (once a day OR dairy-heavy ovo-lacto vegetarian)
2) FOOD INTAKE

The average American eats approximately 3000 kilo-calories (kcal) every day. This diet is approximately equivalent to:

- Eating cereal, toast, juice, and coffee for breakfast,
- A sandwich, yogurt, fruit, and a beverage for lunch,
- An afternoon snack, and
- A dinner with main course, side, and beverage, and a snack or dessert in the evening.

Given this general description of the average American diet, and the fact that individual caloric intake will depend on age, physical activity, body type, and other factors, How would you describe your average daily food intake?

1.5 _____ Much less than the average (2400 or less kcal / day)
2.0 _____ Somewhat less than average (2400 to 2800 kcal / day)
2.5 _____ Average (2800-3200 kcal / day)
3.0 _____ Somewhat more than average (3200-3600 kcal / day)
3.5 _____ Much more than average (3600+ kcal / day)
3) FOOD WASTE

Food Waste In the United States, an average of 26% of food purchased by households is thrown out rather than eaten (due to spoilage, discarded leftovers, table waste, etc.)

How much of your purchased food is thrown out rather than eaten?

0.0 _____ None
1.0 _____ About 5 percent is wasted
1.5 _____ About 10 percent is wasted
2.0 _____ About one quarter is wasted
3.0 _____ About one third is wasted
4.0 _____ About half is wasted
4) LOCALLY GROWN FOOD

A significant portion of the energy cost of food production is spent on transporting food from harvest to market, and for processing, packaging, and storage. Purchasing locally grown, in-season, unprocessed food can greatly reduce the need to expend energy in food production.

How much of the food that you buy is locally grown, unprocessed and in-season?

-0.0  _____ None. I buy lots of exotic, imported foods.
-0.7  _____ About a quarter
-1.4  _____ About half
-2.1  _____ About three quarters
-2.8  _____ Most food I purchase is locally grown, unprocessed, and in season

5) EATING OUT

Restaurants tend to waste far more food per person than is done at home, on average.

How many times do you eat out per week, on average? (Include stops at drive-throughs and fast-food restaurants)

0.0  _____ Never
TRANSPORTATION

6) MILES DRIVEN PER YEAR

The average American drives about 8,500 miles per year, or about 17,000 miles per car. Since not all Americans own cars, most automobile-owning Americans will drive more than 8,500 miles.

Given these averages and your driving habits, How much do you drive each year, on average? (either as a driver or passenger)

10.0 _____ 15,000 miles or more / year (300+ miles / week)
8.0 _____ 12,000 - 14,999 miles / year (250 miles / week)
6.0 _____ 9,000 - 11,999 miles / year (200 miles / week)
4.5 _____ 8,000 - 8,999 miles / year (170 miles / week)
3.0 _____ 5,000 - 7,999 miles / year (125 miles / week)
1.5 _____ 2,000 - 4,999 miles / year (75 miles / week)
0.5 _____ Less than 2,000 miles / year (40 miles / week or less)

7) RIDE SHARING

On average, how often do you drive with someone else (either in your car or theirs)?

-0.0 _____ Almost never
-0.5 _____ About 10% of the time
-1.0 _____ About a quarter
-1.5 _____ About half
-2.0 _____ About three quarters
-3.0 _____ Almost all the time

8) FUEL EFFICIENCY

How many miles per gallon does your car get?

0.0 _____ I don't have a car
<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>More than 50 miles per gallon; or it's all-electric</td>
</tr>
<tr>
<td>1.0</td>
<td>35 - 50 miles per gallon</td>
</tr>
<tr>
<td>1.5</td>
<td>25 - 35 miles per gallon</td>
</tr>
<tr>
<td>2.0</td>
<td>15 - 25 miles per gallon</td>
</tr>
<tr>
<td>3.0</td>
<td>Less than 15 miles per gallon</td>
</tr>
</tbody>
</table>

9) PUBLIC TRANSPORTATION

On average, how many miles do you travel on public transportation (bus, rail) each week?

<table>
<thead>
<tr>
<th>Score</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>-4.0</td>
<td>More than 200 miles / week (30+ miles / day)</td>
</tr>
<tr>
<td>-3.0</td>
<td>100 - 200 miles / week (20 miles / day)</td>
</tr>
<tr>
<td>-2.0</td>
<td>25 - 100 miles / week (10 miles / day)</td>
</tr>
<tr>
<td>-1.0</td>
<td>15 - 25 miles / week (3 miles / day)</td>
</tr>
<tr>
<td>-0.0</td>
<td>Fewer than 15 miles / week (&lt; 3 miles / day)</td>
</tr>
</tbody>
</table>

SELF-PROPELLED TRANSPORTATION

Riding a bicycle or walking rather than using fossil fuel-powered transport can significantly reduce your footprint. In this calculation, the impact of self-propelled transportation is captured by Question #2, which measures caloric intake.
10) AIR TRAVEL

Every year, the average American spends 4.8 hours on commercial airliners. This is roughly equivalent to one roundtrip flight between Washington D.C. and Chicago each year. How many hours each year do you spend flying?

10.0 _____ 400 hours (approx. one coast-to-coast US roundtrip each week)
6.5 _____ 100 hours (approx. one coast-to-coast US roundtrip every month)
4.5 _____ 50 hours (approx. one coast-to-coast US roundtrip every two months)
2.5 _____ 25 hours (approx. two or three coast-to-coast US roundtrips every year)
1.2 _____ 10 hours (approx. one coast-to-coast US roundtrip each year)
0.6 _____ 5 hours (approx. one LA-to-Houston roundtrip each year)
0.4 _____ 2 hours
0.2 _____ Fewer than 2 hours
0.0 _____ Never Fly

HOUSING

11) How many people live in your home? _____

12) HOUSE SIZE
The average single family house in the United States is around 2100 sq. ft. in area.

How big is your home?

10.0 _____ 10,000 sq. ft. or more
8.0 _____ 5,000 - 10,000 sq. ft.
6.0 _____ 2,500 - 5,000 sq. ft.
5.0 _____ 1,500 - 2,500 sq. ft.
4.0 _____ 1,000 - 1,500 sq. ft.
3.0 _____ 500 - 1,000 sq. ft.
1.5 _____ 500 sq. ft. or less

13) ELECTRICITY SOURCE

Does your home purchase electricity from a "green" electricity provider (e.g., solar, wind, micro-hydro) ?

0.0 _____ Yes, all of it
1.0 _____ Yes, some of it
1.6 _____ No
14) ELECTRICITY USE

Do you use energy efficient appliances and lightbulbs?

0.2 _____ Always
0.3 _____ Most of the time
0.4 _____ Half the time
0.6 _____ Some of the time
0.8 _____ Never

15) WATER USE - INSIDE

Americans typically use some 30 gallons of water per person per day.

Does your home have indoor plumbing?

1.0 _____ Yes
0.0 _____ No

16) WATER USE - OUTSIDE
Do you maintain a lawn on your property?

1.0 _____ Yes
0.0 _____ No (or I never water it)

17) CLOTHES DRYER

How often do you use a clothes dryer?

1.2 _____ Always
1.0 _____ Most of the time
0.6 _____ Half the time
0.3 _____ Some of the time
0.0 _____ Never

18) GARBAGE GENERATION

How much garbage does your household generate in a week’s time, on average?
0.0 _____ None
0.5 _____ A bucket's worth (5 gal.)
1.0 _____ A trash can's worth (20 gal.)
1.6 _____ Several trash can's worth worth (50 gal.)
2.0 _____ More than several trash can's worth (50+ gal).

Transfer the numbers to the right of each marked answer and add them up:

Q1) _____ Q10) _____
Q2) _____ Q11) N/A
Q3) _____ Q12) _____
Q4) _____ Q13) _____
Q5) _____ Q14) _____
Q6) _____ Q15) _____
Q7) _____ Q16) _____
Q8) _____ Q17) _____
Q9) _____ Q18) _____

SUB: _____ SUB: _____ ROW TOTAL: _______

If Question #11 = 1, then multiply by 1.5.
If Question #11 = 2, then multiply by 1.2.  
If Question #11 = 3, then multiply by 0.9.  
If Question #11 = 4 or more, then multiply by 0.75.  TOTAL: _______  

This "Total" is your **ECOLOGICAL FOOTPRINT** -- the number of acres you require to sustain your current lifestyle.  

**IN COMPARISON:**  

The Earth has a surface area of 126 billion acres. In 1999, there were 28.2 billion global acres of biologically productive land on the planet, covering roughly one-quarter of the earth's surface. With 5.9 billion people on the planet in 1999, the biological capacity of the planet is 4.8 global acres per person. 

The United States average is 25.2 global acres per person required to sustain our current average lifestyle.  

The world average is now 5.6 global acres per person -- about 20% above the maximum sustainable level of the planet. Another way to state it is that the biosphere needs about one year and three months to renew what humanity consumes in one year.
MORE FUN FACTS

Divide your Ecological Footprint by 4.8:  

\[
\text{Ecological Footprint} \div 4.8 = 
\]

\[
\% 4.8 = 
\]

This is the number of Earths that would be required for everyone to enjoy the level of lifestyle that you do.

NOW, CHOOSE:

How much of the biosphere should be reserved for other species?  

\[
(100 - \text{_______}) \times \text{EF:____________} = \text{__________}
\]

Divide this number by 4.8:  

\[
\% 4.8 = \text{__________}
\]
This is the number of Earths that would be required at your lifestyle level to include all animal species.

THANK YOU FOR TAKING THIS QUESTIONNAIRE!!