ANNEXURE – 1

Questionnaire format

Original: Kannada; Translated to: English

SURVEY OF __________________________ VILLAGE

Geographical location:__________; Distance from city:______km;
Date:__________

1. Name of the respondent:

   Sex:                        age:

2. Occupation:

3. Literacy: Literate ( ) or Illiterate ( )

4. Total members in the family (in numbers):

   Men:                        Women:                        Children:

5. Family annual income:

6. Land-holdings: Low ( ); Marginal ( ); High ( )

7. Smoking individuals at home: Men ( ) Women ( )

8. Fuel types consumed:

   LPG ( ) Kerosene ( ) Biomass ( ) Coal ( )
   Solar energy ( ) Biogas ( ) Electricity ( )

9. Purpose of utilization: Domestic ( ) Industry ( ) Others (Specify) –

10. Reasons for consuming biomass fuel:

11. Reasons for not consuming LPG and kerosene:

12. Biomass types consumed as fuel:

   Firewood ( ) Agricultural residues ( )
   Saw dust ( ) Cow dung cakes ( )
13. **Sources of biomass fuel:**

- Common Property Resources - Natural forest ( ) Village forest ( )
- Avenues ( )
- Private Property Resources ( ) Wood depots ( )

14. **Abundance of biomass:**

- Wild trees -
- Avenue trees -
- Horticulture tree -
- Agricultural residues -
- Cow dung cake preparation -

15. **Rate of utilization of biomass and parts used:**

- Wild trees -
- Avenue trees -
- Horticulture tree -
- Agricultural residues -
- Cow dung cake preparation -

16. **Persons involved in different biomass energy cycle:**

**Collection:**
- Men ( ), age ___ yrs; Women ( ), age ___ yrs; Children ( ), age ___ yrs

**Transportation:**
- Men ( ), age ___ yrs; Women ( ), age ___ yrs; Children ( ), age ___ yrs

**Processing:**
- Men ( ), age ___ yrs; Women ( ), age ___ yrs; Children ( ), age ___ yrs

**Combustion:**
- Men ( ), age ___ yrs; Women ( ), age ___ yrs; Children ( ), age ___ yrs
17. Per capita daily consumption of biomass fuel:
   Summer ( )  Rainy ( )  Winter ( )

18. Time spent for cooking (in hrs):

19. Firewood collection:  Within the village ( )  Outside the village ( )

20. Distance walked to collect firewood:
   Up to 1 km ( )  1 – 2 km ( )  2 – 3 km ( )  > 3 km ( )

21. Time spent/trip to collect firewood (in hrs):

22. Number of trips/month to collect firewood:

23. Types of biomass cookstoves used:
   Traditional ( )  Metal (saw dust/rice husk) ( )
   Clay ( )  Improved (Astra stove) ( )

24. Housing pattern:
   Chimney without ventilation ( )  Chimney with ventilation ( )
   Ventilation without chimney ( )  No ventilation and no chimney ( )

25. Cookstove location in house:
   Outside the house ( )
   In the living room of the house ( )
   In kitchen separated from living room ( )

26. Reasons for opting improved cookstove:

27. Risks and hazards associated with biomass energy cycle:
   Collection -  Snake bite ( )  Pricks ( )  Allergy ( )  Cuts ( )
   Transportation - Body ache ( )  Head ache ( )
   Processing -  Pricks ( )  Cuts ( )
   Combustion - Eye irritation ( ); Throat irritation ( ); Allergy ( ); Burns ( )
List of Research Papers Published/Presented/Participated in Workshops and Seminars

RESEARCH ARTICLES/REVIEWS PUBLISHED IN JOURNALS AND ACCEPTED FOR PUBLICATION


Research Papers communicated: 03

PAPERS PRESENTED AT SYMPOSIUM/CONFERENCES

1. “Awareness about Prosopis juliflora – an economically potential multipurpose tree for rural areas around Mysore City”, at State level Conference on “Environmental Pollution and Management – Future Challenges” on July 29 – 30 2005, J.S.S College of Arts, Commerce and Science, Mysore in association with UGC.
PARTICIPATED IN SEMINARS/CONFERENCES/WORKSHOPS


2. “Biomass Technologies For Meeting Energy Needs” two day Workshop conducted by Department of Mechanical Engineering and Centre of Biomass Gasification Technology, The National Institute of Engineering, Mysore under Technical Education Quality Improvement Programme (TEQIP), held on 14\textsuperscript{th} and 15\textsuperscript{th} November 2005, at N.I.E., Mysore.

3. “Rural India at Cross Roads – A 21\textsuperscript{st} Century Perspective” one day Collegiate Seminar held at St. Philomena’s College, Mysore, Organized by the Department of Sociology, St. Philomena’s College, Mysore on 30\textsuperscript{th} September 2006.