

IMPACT OF GOBAR GAS PLANT ON RURAL
~~HOUSEHOLD~~ Housewives

(This is a study concerned with the rural housewives of
Kopra village in Kolhapur District)

QUESTIONNAIRE

1. Name of the head of the family : _____
- 1.1.1 Age : _____
Sex : _____
Caste/Religion : _____
- 1.1.2 Education : _____
- 1.1.3 Occupation :
Agricultural : _____
Non-agricultural : _____

Demographic details about the members of the family :

Sr. No.	Name	Age	Sex	Relation with the Head	Marital Status UN/M/W/DV/Others
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Educational attainment of the members of the family:

Age Group	Educational Attainment				
	Illi.	Prim.	Sec	High	Spl. Other

Occupational Attainment of the members of the family :

Sr. No.	Name	Nature of Occupation Agri./ Non-Agri. (Specify)	Place of work	Place of Residence	Income Mon./ Annu.	Any other information
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- 2.1 Total Number of members in the family : _____
- 2.2 Type of family : Nuclear/Joint
- 2.3 Ownership of land (in hectares) : _____
- 2.4 Number of domesticated animals : Cows/Buffellows/Oxes^w/hebufellows/
sheepg/other
- 2.5 Location of domesticated animals : (Specify)
shed
3. Housing
 - 3.1 Type of household
 - 3.1.1 Kaccha house
 - 3.1.2 Partially kaccha and pucca house
 - 3.1.3 Pucca house
 - 3.1.4 R.C.C. construction
 - 3.2 Number of rooms for living : Upto 5
6 to 10
11 +
 - 3.3 Is the bathroom facility available?: Yes/No
If yes - Located - inside the house
outside the house
 - 3.4 Is their lavatory facility?: Yes/No
If yes - Location of lavatory
Inside the house
Outside the house
 - 3.5 Cooking place
Is there is any separate kitchen : Yes/No
hall as such ?
If yes - give details
 - 3.6 Type of fuel used for cooking
 - 3.6.1 Dung cakes
 - 3.6.2 Sugarcane roots
 - 3.6.3 Chlli sticks/other type of sticks
 - 3.6.4 Wood
 - 3.6.5 Coal
 - 3.6.6. Kerosene
 - 3.6.7 Jungle products
 - 3.6.8 Gobar gas
 - 3.6.9 Any other
 - 3.7 Informations of the Gobar Gas plant
 - 3.8 Age of the head's wife : _____
 - 3.9 Time gap between awareness and installation
of gobar gas plant
 - 3.9.1 When for the first time the information about
the gobar gas plant was received

- 3.9.2 Who gave the information :
- Gram Sevak
 - Extension officer of the Sugar factory
 - Khadi Gramodhyog worker
 - Friend/Relative
 - No body but the information was gathered by the respondent himself.
- 3.10 The installation of gobar gas plant
- 3.10.1 Date of starting the construction the plant
- 3.10.2 Date on which use of the gobar gas plant in the completed from
- 3.11 Amount spent on the installation of gobar gas plant :
- 3000 - 7000
7000 - 10000
10000 -- nature of subsidy received
- Nature of subsidy received
- from the sugar factory (in Rs.)
 - Khadi Gramodhyog
 - Any other source
- 3.12 Size of gobar gas plant
- 3.12.1 Model of the gobar gas plant
- 3.12.2 Its capacity of ^{cf}t (Cubic feet)
- 3.13 Dung Collection
- 3.13.1 Who collected the dung for the use of gobar gas plant
- Housewife
 - Husband
 - Servant
 - Children
 - Any other
- 3.14 Quantity of dung used (in Kg.)
- 3.15 Purpose to install gobar gas plant
- 3.15.1 Cooking
- 3.15.2 Cooking and lighting
- 3.15.3 Cooking and power generation
4. Gobar Gas Plant and the women
- 4.4.1 Is their connection ^{of} lavatory to gobar gas plant : Yes/No
If not the reasons :
- Due to resistance from elder members of the family : Explain
 - No septic tank
 - Does not feel any need to connect the lavatory to the gobar gas plant
 - It wasnot convenient to connectlavatory to gobar gas plant
 - Connection is costly
 - Ignorance about connection.



5. Nature of work of women in the household duties

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- 5.5.1 Who cook food in the house ?
- 5.5.2 Who makes purchases for household requirements ?
- 5.5.3 Who fetches water for the household ?
- 5.5.4 Who washes clothes ?
- 5.5.5 Who cleans utensils in the house ?
- 5.5.6 Who sweeps and cleans the house ?
- 5.5.7 Who takes care of children ?
- 5.5.8 Who generally decision making about the expenditure on foods ?
- 5.5.9 Who helps children in their studies ?
- 5.5.10 Who takes care of sick persons in the family ?
- 5.5.11 Who decides about the expenditure on clothing ?
- 5.5.12 Who decides about the expenditure on household necessities ?
- 5.5.13 Who decides about the expenditure on education ?
- 5.5.14 Who decides about the expenditure on marriage, children and relatives ?
- 5.5.15 Who decides about the expenditure on gifts and presents ?
- 5.5.16 Who decides about the expenditure on major purchases and major capital investment ?
- 5.5.17 Who decides about the expenditure on visiting place and peoples.
- 5.5.18 Who decides about the expenditure on attending ceremonies and functions ?
- 5.5.19 Who decides about foodstuffs to be purchased ?
- 5.5.20 Who decides about clothing to be purchased ?
- 5.5.21 Who decides about which school the children should attend ?
- 5.5.22 Who decides about which gifts to be given ?
- 5.5.23 Who decides about recreation and outing ?
- 5.5.24 Who generally decides about daughter's/son's marraiges partner ?

6. Time saving and time utilisation pattern of the Housewives

6.1 Time spent on daily household duties

- 1. Time saving activities :
 - Before the installation of gobar gas plant
 - After the installation of gobar gas plant
- 2. Cooking
- 3. Cleaning of utensils
 - Hours minutes (Approx.)
 - Hours minutes (Approx)
- 4. Cleaning of house
- 5. Washing of cloths

6.2 Time utilisation

- a) Attending children embroidery
- b) Miscellaneous activities (Knitting, embrodary, sewing, spinning etc.)

6.3 Time spent on daily for related activities :

1. milking the buffalows/cows
2. Feeding the cattle
3. Cleaning of cattle shed
4. Preparation of dung cakes ~~and~~

Before the adoption of
gobar gas plant hours/minutes

After adoption of gobar gas
plant hours/minutes

6.4 Better alternative fuel

1) Which type of fuel you think from your
experience is efficient and advantageous

- a) Gobar gas
- b) Kerosene
- c) Fire-wood
- d) Cow-dung cake
- e) Other type of fuel

6.5 After the installation the gobar gas plant have you
become free from drudery of dung collection and
starting of fuel.

6.6 Have you been able to save fuel and money after
the installation of Gobar Gas Plant (give details)

6.7 Cleanliness of utensils and kitchen :

What are the advantages of gobar gas plant

1. Smokeless neat and clean fuel
2. Saves from drudery of collection and
storing of fuel.
3. No carbon on utensils
4. No blackening of walls
5. Protects the eyes and throate
6. Provision of hygienic and sanitation conditions
7. Provision of clean air
8. Reduces flies and mosquitoes
9. Enhancement of social prestige
10. Increase in sociability and hospitality
11. Better quality of farm yard manure
12. Better utilisation of organic wastes
13. No bad smell in cooking
14. Any other

6.8 Is there any enhancement in social prestige or status Yes/No

6.9 Do you think gobar gas plant helps you in serving the guest. Yes/No
If so

- a) Can prepare tea and coffee quickly
- b) Can get hot water quickly
- c) Can cook food without much hazards
- d) Any other



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Gobar Gas plant utilisation of organic wastes

- 1 Do you think that the organic wastes are utilised properly than before ?
- 2 Do you think there has been availability of improved quality of farm yard manure ?

Problems in the adoption of gobar gas plant

- 1 Bad smell in cooking
 - a) Do you cook regularly on the gobar gas stove Yes/No
If no due to -
 - a) bad smell in cooking
 - b) Do not like
 - c) Any other reason
 - d)
- 2 Is there any difficulty in the utilisation of the gobar gas plant. Yes/No
If yes, is it due to -
 - a) Non-availability of trained masons
 - b) Lack of technical guidance from government officials
 - c) Lack of co-operation from bank staff for securing loan
 - d) Non-availability of cement
 - e) Weak pressure in winter
 - f) Frequent cleaning of supply pipes and water box
 - g) Leakage of gas and water from pipes
 - h) Lack of experience in filling the plant with dung and water in proper proportion
 - i) Improper structure of gobar gas plant

Non-Adopter's of Gobar Gas Plant
(Reasons for non-adoption of gobar gas plant)

1 Situational Reasons

- 1.1 Not enough space for the installation of gobar gas plant in courtyard
- 1.2 Situation of house inside the village
- 1.3 Small yard size
- 1.4 Large family size

2 Economic Reasons

- 2.1 Involves high investment
- 2.2 Not profitable as the farmers have enough crop waste for fuel

9.3 Educational Reasons :

- 9.3.1 Lack of technical know how of the people about the operation and use of go-bar gas plant
- 9.3.2 Information regarding the installation is not available

9.4 Psychological reasons :

- 9.4.1 Usless
- 9.4.2 Gas incorporates bad smell to the chapaties and other meal preparations
- 9.4.3 Creates unhygenic conditions
- 9.4.4 Not consistent with the cultural norms
- 9.4.5 Poison, hence dangerates for health