**WHITE PAPER**

**TO APPLY WITH FARMERS TO DO THE CASE STUDIES**

**Farmer Profile**

1. Date of this interview:

2. Farm Location:

3. \*Name and background of the farmer (does it come from a farmer's family? Why do you work as a farmer?):

4. Climate in the region:

5. Average rainfall on the property:

6. Cattle (type and quantity):

7. Crops:

- Area for each crop:

- Harvest:

- Growth:

- Average weight (pre/post fertilization):

8. Amount of organic waste produced daily (organic matter/manure/etc.):

9. Average selling price:

**Homebiogas System**

10. How the farmer learned about the HBG system:

11. Why the farmer wanted to test the system and what benefits he thinks he will achieve with the system:

12. Installation of the HBG system and type:

13. Feeding system and feed ratio (organic waste/manure):

14. Amount of biofertilizer produced daily by the system:

15. Use of biogas (cooking, heating the storage of cows...) and annual savings:

16. The application of biofertilizer is in the whole crop or only in an experimental area (if the answer is yes, get the size of the area):

- Mode of application (direct to the ground, foliar (sprayed on the leaves), drip irrigation or water spraying, flag channels, using a tractor with irrigation tank, backpack or simply applied by hand with a bucket):

- Amount used and frequency of application (daily/weekly/monthly/other) for each crop:

- Other applications of biofertilizers:

- How much money the use of biofertilizer saved in farm costs and where was the most significant savings (fertilizer, seed, water, others):

17. Addition of chemical fertilizer (yes/no):

- Names:

- Cost:

- Mode of application:

- Amount used and frequency of application (daily/weekly/monthly/other) for each crop:

18. Addition of pesticides:

**Results of fertilizer application**

19. Difference in yields after using the biofertilizer (percentage) and approximate evaluation of the improvement (weight, quality at first glance, taste):

20. Results and comparison parameters of laboratory soil tests (pH, micronutrients, microorganisms, amount of carbonic matter, etc.):

21. Results and parameters of comparison of laboratory biofertilizer tests (pH, micronutrients, microorganisms, amount of carbonic matter, etc.):

22. Change in soil fertility after starting to use biofertilizer (yes/no):

23. Difference in pesticide application (yes/no):

**Sustainability**

24. Any level of sustainability on the farm before the installation of the biogas system (yes/no, what?):

25. You advertise the product to the public as sustainable (yes/no, why):

**Feedback and trust**

26. Customer/neighbor feedback after starting to use the biofertilizer:

27. Ask the farmer to rate the reliability of the system on a scale of 1 to 10:

28. Achievements after use and correspondence with expectations:

29. Recommendations on optimal application or ideal application on biofertilizer:

30. Ideas on how to improve the product (anything we could have done to improve it for him/her):

31. Other benefits, harms or comments: