

FINAL REPORT.

1. **Project Number:** 50033902
2. **Project Title:** *Transfer of New Bio -Gas technology and dissemination of information in Village Shirin Muaafe, Tehsil Depalpur of District Okara.*
3. **Project Executant:**
 - 3.1 Name. *Rana Shafiq -Ur-Rehman.*
 - 3.2 Title & Organization. *Green Circle Organization (GCO)*
 - 3.3 Address. *144-Q, Block Model Town, Lahore.
Ph#:5880910*
4. **Project Duration(in months):** *Six Months.*
 - a) Starting Date. *April 2002.*
 - b) Ending Date. *September 2002.*
5. **Project Cost:** *Rs.110,000.00*
6. **Project Summary:** *More efficient and cheaper Thai model of bio gas plant will be installed at GCO- Working model sit to compare efficiency and cost effectiveness of two models. The results of the experiment will be disseminated through publication and video presentation to the general public as well as the concerned organizations.*
7. **Project Objectives:**
 1. *Transfer of more efficient and cost effective technology through Installation of Thai Model Bio-Gas Plant in GCO working Model, Village Shirin Muafi, Depalpur..*
 2. *Production of organic fertilizer to renew productivity of agricultural land.*
 3. *Conservation of natural sources and protection of agriculture for chemicals.*
 4. *Raising Awareness about pollution and conservation of resources.*
 5. *Increasing natural/organic farming practices (use of slurry as fertilizer) and agro-forestry.*

8. Methodology Used:

Participatory Method was adopted for the designing, implementation of the project activities.

Community meetings were conducted for educating them regarding the designing and implementing the project activities.

Community was educated about the design of proposed bio -gas plant, the advantages of the plant, the proper operation and maintenance procedure and the related environmental issues.

9. Results and their significance:

(Dates and its analysis be provided.)

New technology Introduced to the common man. The bio gas technology which is considered to be the cheapest and environment friendly energy Generation was introduced by the GCO in the area of Shirin Muafi. The main objective of the project was to introduce the technology and to motivate the farmers to adopt this technology. GCO have motivated the community to use this technology and with assistance of PCAT is installing the Bio -Gas plants in the project area.

Energy generation through indigenous raw material.

Improvement of local environment.

Improvement of health standards through disposal of organic waste and production of organic food.

Increased land under cultivation by organic manure.

Less burning of organic matter.

Improvement of hygienic conditions through reduction of pathogens, worm eggs and flies.

Environmental advantages through protection of soil, water, air and woody vegetation

10. Targets/ objectives not achieved. And reasons thereof:

There were no unachieved targets a little bit delay in the completion of the project was due to the unavailability of raw material. GCO execute its objectives through proper designing and implementation of the project and because of the community participation, the acceptance of GCO's development programs is very high. GCO is proud to state that due to the proper dissemination of information, GCO have facilitated the farmers to install 80 Bio -Gas Plants in the vicinity of the project area.

11. Conclusions & Recommendations:

Keeping in view the experience in the GCO recommends that, Popularization of bio gas technology has to go hand in hand with the actual construction of bio gas plants in the field. Without the public awareness of Bio Gas Plants, its benefits and pitfalls, there will be no sufficient basis to disseminate bio gas technology at grass root level. It is recommended to construct more experimental models at least at tehsil level to show the farmers the working of and benefits of bio-gas plant.

At the same time, awareness with in the government is essential. Since impacts and aspects of bio gas technology concerns so many different governmental institutions (e.g. agriculture, environment, energy, economics), it is necessary to identify and include all responsible government departments in the dissemination and awareness raising process.

Government or Non Government organizations should provide credit facility for the installation of bio gas plant.

More and more training programs for the artisans, technicians and farmers in the installation, operation and maintenance of bio gas plants should be organized.

Government should be advised to launch research and development programs to improve existing technologies, on innovative designs or on optimizing bio technologies process. Agriculture universities should be used for this purpose.

12. Outputs: Reports, media, Articles, Slides, Photographs, etc:

*First Financial Report.
Second Financial Report.
Final Activity Report.
Photographs.
Video.*

13. Equipment Status Report:

No specific equipment was purchased for the execution of the project. Only such material was purchased that was required for the installation of the project.
