

IPRO 497-355 PROJECT PLAN

OBJECTIVE

The main objective of the IPRO is to provide direct health services to low-income societies, specifically Mexico, by the design of a water purification filter. The IPRO will design a clay based filter and a business plan with the aim of introduction into these societies. The filter should be simple to use, affordable, simple to setup, easy to maintain and should be adaptable to a variety of every day household activities such as drinking, bathing and washing.

BACKGROUND

Low-income countries around the world have the problem of water pollution and this issue is of particular importance because of the health risks involved. Although there are already several companies providing purification services to these parts of the world, the demand still exceeds the need because of the difficulties involved in the introduction phase of these systems to the affected communities. The IPRO, which will be developed into "KlarAqua", a non-profit organization, will be focusing on Mexican rural communities as the first test situation for the filter with hopes of expanding to other low-income communities in the future.

METHODOLOGY

This IPRO team will be divided into two groups to allow for specialization, the two groups will be the design and business groups. The design group will be involved with the design and testing of the filtration system while the business group will be involved in setting up a business model for the economic introduction of the product to Mexico. The design team will be further divided into the disc design team and the experimental team, the disc design team will deal explicitly with the design of the system while the experimental group will be involved in the bacteria experiments and data collection.

EXPECTED RESULTS

The IPRO expects to use the experimental results of the bacteria testing to specify the actual clay disk composition needed in the purification filter whose design configuration should have been fully modified and finalized and to produce a feasible business plan for the introduction of the finalized filter to the Mexican community.

SCHEDULE

Date	Event
1/20/04	Set up iknow and igroup accounts
1/27/06	General IPRO briefing and division into design and business groups
2/10/06	Obtainment of kiln and preparation of disc samples
2/25/06	Lab setup and beginning of bacteria testing
3/3/06	Midterm presentations by design and business groups
3/13/06	Midterm reviews and business group debriefing
3/22/06	Analysis of experimental results
4/08/06	Development of business model
4/15/06 - 4/30/06	Final bacteria testing and examination of results
5/3/06	Final Presentation
5/4/06	Upload all iknow files
5/5/06	IPRO Day Participation

TASK ASSIGNMENT

Task	Principal Responsibilities
Abstract	Olumide Ogunsanwo
Comprehensive Deliverables	Olumide Ogunsanwo
Final Poster	Team
Final Report	Team
Midterm Progress Report	Adrian Gomez and Esmeralda Jimenez
Project Plan	Olumide Ogunsanwo
Brochure	Amanda Gilliam
Professional Exhibit	Team
Team Information	TBA
Web site	TBA