

PROMOTION OF GREEN TECHNOLOGIES **WITH IN ECO-VILLAGE TO EMPOWER** **RURAL WOMEN**

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PROBLEMS IN THE TARGET VILLAGES IN TEHRI GARHWAL DISTT OF UTTARAKHAND STATE IN SUB- HIMALAYAN REGION OF INDIA

- Climate Change has affected the project areas
- Shifting weather patterns is getting unpredictable
- Soil is getting degraded
- Agriculture Production is affected
- Livelihood of local people affected
- Men are leaving villages to earn livelihoods in the cities due to shrinking opportunities
- Women are affected most as they stay in the villages with children and old people and manage agriculture, animal husbandry and perform domestic chores
- Women are facing domestic energy, water & fodder problems
- Women have to walk longer distances to fetch water and collect firewood for cooking and fodder for domestic animals

SUSTAINABLE ECO-VILLAGE DEVELOPMENT (EVD) AS MITIGATION OF CLIMATE CHANGE

- WAFD together with its technical partner INSEDA is finding Climate Change mitigation solutions through Promotion and implementation of integrated EVD project,
- Advantage of taking village as the smallest unit for promoting sustainable EVD can be easily replicated in other villages.
- Design, develop and promote affordable and durable green technologies that are most appropriate to the region for mitigating the negative impact of climate change,
- Teach women to implement these for energy, water and food security which are the key objective of the EVD project
- Other objective are income generation for sustainable livelihood to improve quality of life of the women and family
- Improve the micro-environment of the target villages

**SOME OF THE GREEN TECHNOLOGIES
BEING PROMOTED AND
IMPLEMENTED WITHIN THE
INTEGRATED ECO-VILLAGE PROJECT
FOR EMPOWERMENT OF WOMEN**

BIOGAS PLANTS BUILT USING BAMBOO REINFORCED CEMENT MORTAR (BRCM) FOR PROVIDING CLEAN COOKING ENERGY AND ORGANIC MANURE FOR IMPROVING SOIL

**Costs INR 20,000 for 1 CuM and 65,000 for 6CuM capacity
plant (US\$ 360- to 1,200)**



BAMBOO WEAVING BY VILLAGE WOMEN FOR CONSTRUCTION OF ROOF WATER HARVESTING TANK



ROOF RAIN WATER HARVESTING STRUCTURES USING BAMBOO REINFORCED CEMENT MORTAR (BRCM)

Initial stages of construction



COMPLETED ROOF RAINWATER HARVESTING STRUCTURE

Costs INR 7,000 for 1000 lts and 25,000 for
5,000 lts capacity (US\$ 125-450)



BAMBOO SOLAR DRYER UNDER CONSTRUCTION



COMPLETED BAMBOO SOLAR DRYER WITH DRYING RACK AND COVER WITH PLASTIC



BAMBOO SOLAR DRYER IN USE FOR DRYING

Costs INR 1,200-1,400 (US\$20-25)



DRYING OF CHILLIES IN SOLAR DRYER



SOLAR DRYER DRIED LOCAL APPRICOT



SOLAR WATER HEATER UNDER CONSTRUCTION

Costs INR 800-1,000 (US\$ 15-20)



COMPLETED SOLAR WATER HEATER SHOWING WATER HEATING AFTER 1 HOUR



WOVEN BAMBOO COMPOST BASKET MADE BY VILLAGE WOMEN

Costs INR 600-700 (US\$ 10-12)



BAMBOO BASKET FILLED WITH CATTLE DUNG AND OTHER WASTE BIOMASS FOR COMPOSTING



ORGANIC CROPS USING MANURE PRODUCED IN BAMBOO COMPOST BASKETS



VILLAGE WOMAN CLEANING THE ORGANIC PRODUCE



CLEANED GRAIN OF AMARANTH USED FOR MAKING NUTRITIOUS SWEETS BY VILLAGE WOMEN



ORGANIC GARDEN PATCH



CAULIFLOWER AND BEANS FROM AN ORGANIC KITCHEN GARDEN



SIMPLE SOLAR POLY GREEN HOUSE (SPGH) FOR VEGETABLE GARDENING FOR HOME AND INCOME GENERATION

Costs INR 20,000-30,000 (US\$ 350-550)



BEE KEEPING FOR LIVELIHOOD AND IMPROVING POLLINATION OF LOCAL FLORA

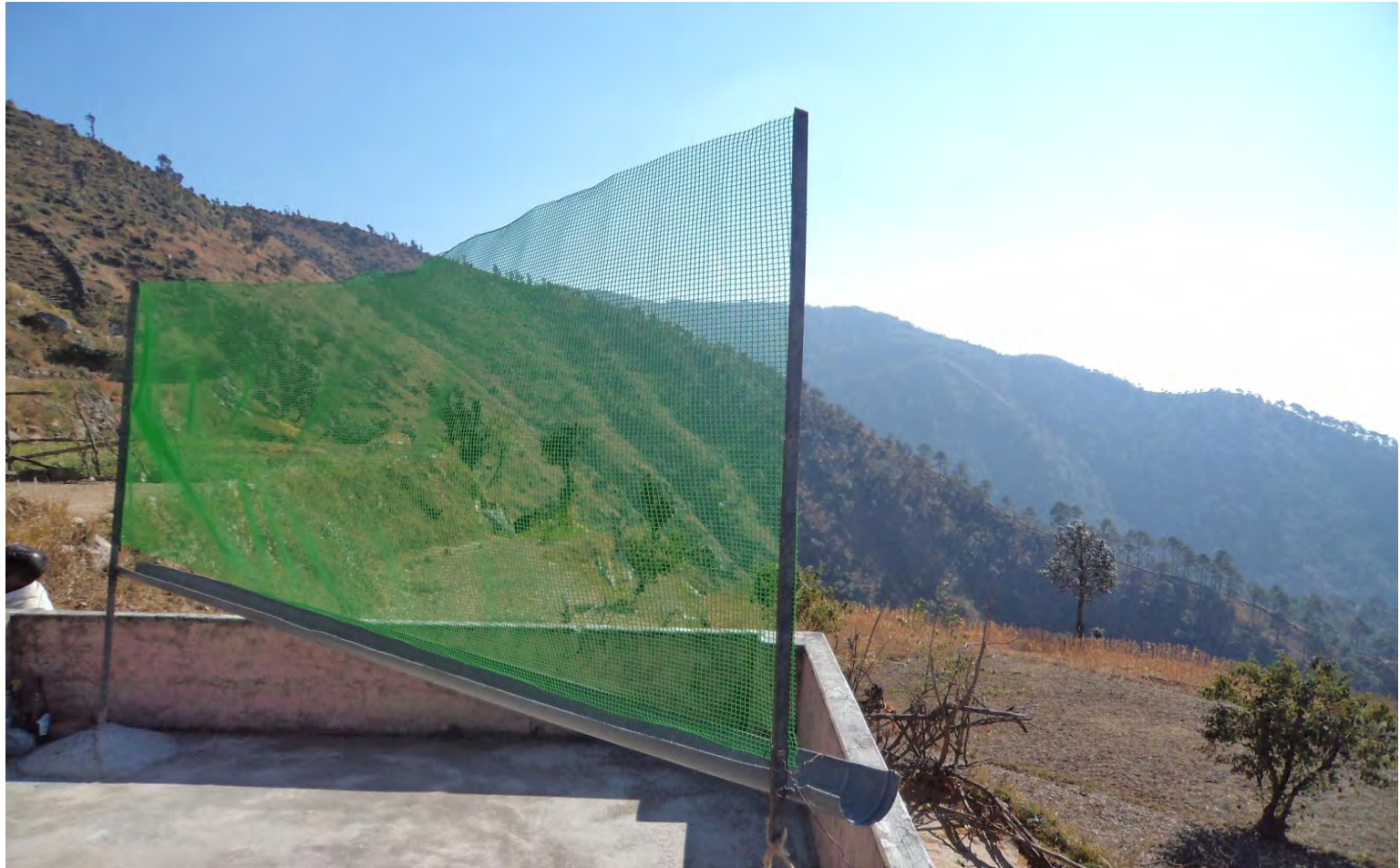
Costs INR 2,500 (US\$ 45)



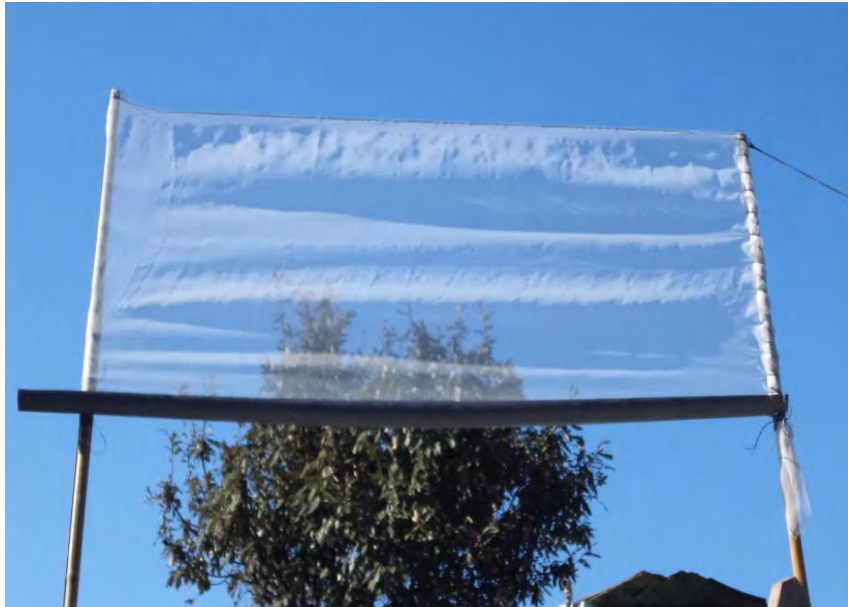
EXPERIMENT WITH MIST, FOG AND CLOUD HARVESTING FOR DRINKING WATER



SIDE VIEW OF THE MIST, FOG AND CLOUD HARVESTING STRUCTURE



**SIMPLE MIST FOG AND CLOUD
HARVESTING STRUCTURE AT A HEIGHT OF
6,500 FT (2,000 MT)
Costs INR 2,000-3,000 (US\$ 35-60)**



THANK YOU

- For Further information

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