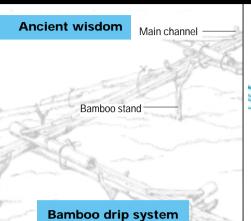
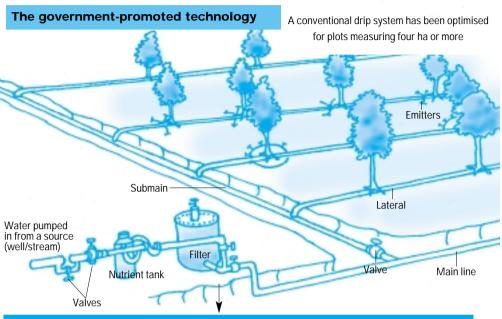
DRIP IRRIGATION The long and short of it



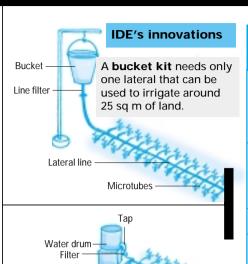
Practised in Meghalaya

for centuries

Secondary channels



It makes a difference						
Сгор	Cost per hectare (Rs)	Peak water used (litre per day per plant)	Yield (tonne per acre per year)	Pay back period (years)	Cost benefit ratio	Extra income after drip
Sugarcane	46,500	20,000 day/acre	60	1.5	3.00	24,470
Banana	46,500	15-20	30	1	3.08	29,340
Cotton	46,500	8-10	14	1.5	1.77	14,070
Papaya	39,140	15	750kg latex	1.5	3.50	34,270
Grapes	43,000	15-24	20	1	3.64	68,490
Pomegranate	29,340	50-60	9	1	3.50	39,140
Ber	39,340	50-60	9	1	2.50	19,590
Tomato	48,940	20 - 24,000 day/acre	28	1	1.90	14,670



A drum kit, which is a larger version of the bucket kit, can irrigate up to 100 sq m of land.

Submain

Cost -Benefit of IDE's drip irrigation kits in one crop production season (in Rs) **BUCKET KIT** DRUM KIT DRUM KIT (Vegetables) (Horticulture) omato - 400 plants Tomato – 30 plants Papaya - 50 plants Brinial - 30 plants Chilli - 20 plants (Local variety) (Local variety) CAPITAL COST 200 775 2. Bucket/drum 600 600 75 3. Fencing 50 100 150 Sub total 325 1525 1525 RECURRING COST 1. Seed, seedling 100 50 200 2. Fertiliser 20 3. Pesticide 100 200 100 4. Labour 200 100 200 200 5. Misc 180 550 850 Sub total SALE PROCEEDS 60+120+10 1000 1. Production 600 2. Rate per Kg 5+2+10 2400 4000 3. Sale value 640 Sub-total 2400 4000 **GROSS RETURN** 3150

On the spot...

A network of low cost tubes, such as Pepsee tubes, can replace the pipe and lateral network

A clean piece of cloth can replace the filter Nutrient tank is not A pump is not required. Instead, a bucket or drum can be placed at

Valves are not required

Poor farmers cannot afford a large-scale drip irrigation system. This is where the genius of grassroot level improvisation comes in play. With modifications and innovations, a small-scale rural drip system can irrigate a number of .2 ha plots.

Rat banquet

Source: IDE India

Thirsty rodents can be a menace. They sometimes gnaw into the low cost tubes to quench their thirst, leaving it full of leaks. Farmers have found an appropriate solution to this. They place pans filled with water every 25 feet or so, which the rats can access and drink from. This way, the farmers don't have to replace the tubes every now and then, saving a lot of money.