

1 MITIGATING CLIMATE CHANGE THROUGH BIOCHAR AGRICULTURE IN 1
NEPAL

2 (SCRIPT) 2

SCENE 1: LOCAL FARMERS
FACILITATOR oh...what is this thing and
Hi Namaste, we are here to how can we get benefit from
introduce you about Biochar this
agriculture.

SCENE 3: Biochar, a recently
introduced concept that can
help increase soil fertility
and mitigate climate change.

SCENE 4 :ONE LADY LOCAL FARMER
Oh that's great, but i think it is
very expensive and how can we get the
raw materials.

SECENE 5 :
FACILITATOR
No, it is cost effective and
we can use local materials
like wooden logs, corn
stovers, sunflower stalks,
twigs, branches etc. The
entire process is self-
sustaining and once-started
it automatically comes to
the end.

SCENE 5 : There are two ways
of preparing bio char. One
is by the use of bio char
stove and the other one is
bysimple oxygen controlled
burning. Both the methods
use the major principle
of "Pyrolysis" i.e. burning
in limited or zero
availability of oxygen. The
use of any method depends on
the feasibility of the user.

(CONTINUED)

CONTINUED: (2)

SCENE 6 : The only main thing is we need a Bio char stove which consist of a simple double metal drum. It can be purchased from the market or made in home. Then raw materials are kept on the top of the drums and it is ignited. Once ignited the process runs automatically and ends in about 3 hrs.

SCENE 7 :

LOCAL FARMER

Ya, it seems easier to make it. Does this bio char really works to increase our crops production, how? and what are the other benefits so that we all farmers can use it

SCENE 8 :

FACILITATOR

As all we know, climate change is bringing negative impacts on our lives because of erratic rainfall, increased temperature and incidence of insects and pests . For this,carbon emission is responsible which we are emitting day by day from home smoke to large forests fires.

SCENE 7: We know forest organic soil is very fertile, likewise, we need our land fertile to grow crops. Thus, we can utilize such locally available materials to sequestrate carbon and help in reducing carbon to combat climate change adopting such local activity and initiatives. This can result in speedy increase of fruit and crop

(CONTINUED)

CONTINUED: (3)

biomass as well.

SCENE 9:

For this, we need to form committee representing all of you and work in groups from each households. Also, we will involve 3 local societies of this place.

SCENE 10 LOCAL
FARMER

Oh great to know this, we are ready to use Biochar forming groups in the society. For this, you should help us technically and advise us time to time. We want to see the result of doing this.

But how can we analyse the result of increased crop production?

SCENE 11
FACILITATOR

Ahhh, very good question, listen, at first, we will develop a model farm to demonstrate. Agricultural plants will be planted, lets say vegetable crops in different places in model farm as our major aim is to compare the crop yield. We will give three treatments, one with Biochar, one with farm yard manure, and one control. As a result, we will compare the biomass, root and shoot growth of the plants. If Biochar worked as planned and showed good result, we can adopt this method with sustainable production of Biochar in the

(CONTINUED)

to use in the field ?

4.

CONTINUED: (4)

society.

SCENE 12 : LOCAL
FARMERS

SCENE 13
FACILITATOR

To activate a freshly prepared bio char it is simply mixed with some water, urine, green grass pieces, compost, etc. Then it is left for few hours and it is ready to use immediately.

SCENE 14 :
LOCAL FARMERS

We think this is very good concept to upgrade our agricultural production. We are excited to practice this homemade technology and we think "together possible for sustaining our lives"

(CONTINUED)

CONTINUED: (5)

5.