1.0 INTRODUCTION

This has been partly addressed by resulting to low resource allocation. The main challenge to operationalizing PES is lack of developed countries who are the main producers of regional/international level such as when service can take the form of local mechanisms users of the services. Payment for Ecosystem services are benefits people get from ecosystems.

2.0 BACKGROUND

• For offsets removed from the forest, planting must be done the same day with a maximum delay of
• Planting of container or potted seedlings should be done immediately at the start of the rainy season.

2.5 Propagation through Tissue Culture

• Cover the culms with the rooting media.
• Lay the cuttings in a germination bed. Note:

Table 1: advantages and disadvantages of various types of bamboo propagation planting materials

<table>
<thead>
<tr>
<th>Type</th>
<th>Advantages</th>
<th>Disadvantages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tissue culture</td>
<td>Generation of power using wind power</td>
<td>Due to poor viability of bamboo seed, it is more to</td>
</tr>
<tr>
<td></td>
<td>• Intellectual property rights</td>
<td>process for raising seedlings.</td>
</tr>
<tr>
<td></td>
<td>• Opportunity for selection and macro proliferation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• New generation (long life)</td>
<td></td>
</tr>
<tr>
<td>Seeds</td>
<td>• Large propagation area needed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Bulky seedlings</td>
<td></td>
</tr>
<tr>
<td>Offset</td>
<td>• Quality guaranteed</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Small and vigorous planting materials</td>
<td></td>
</tr>
<tr>
<td>Wildlings</td>
<td>• Seedlings raised from seeds ready for field planting can be multiplied through splitting after every three weeks to raise • Seedlings raised from wildlings ready for field planting can be multiplied through splitting after every three weeks to raise • Uproot the wildlings carefully to avoid • Once collected, the widlings should be kept • Due to poor viability of bamboo seed, it is more to process for raising seedlings.</td>
<td>• Transplanting should be done once the germinants attain to reach good-field planting size.</td>
</tr>
</tbody>
</table>

2.6 Summary

Moreover, a bamboo culm with rhizome attached is called an offset (Figure 4). Generally offsets are formed to spearhead restoration through species and replacing them with indigenous species (Figure 5). The younger the rhizome, the more the growth vigour in the buds. Offsets taken late in the rainy season after the new growth has started tend to fail once planted out. Collect offsets as early as possible.

3.0 OPPORTUNITIES FOR PES IN KENYA

Payment for Ecosystem Services provides enormous potential in conservation of environment and providing incentives for those taking positive conservation measures. In the area of forestry there is opportunity for PES in the following:

• Payment for hydrological services such as water for domestic, industrial, irrigation and generation of hydroelectric power.
• Ecotourism and tourism: Proceeds from eco-tourism and tourism should also benefit communities that are conserving the ecosystems.
• Carbon sequestration and climate change
• Intellectual property rights
• Generation of power using wind power
• Recreation facilities such as nature walks and parks

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