



Home backyard soil conservation techniques applied and used to cultivate vanilla. (Bandara Rotawewa)

Women practices SLM through Vanilla cultivation (Sri Lanka)

Women practices SLM through Vanilla cultivation

DESCRIÇÃO

Women in Central Highlands of Sri Lanka practice sustainable land management through vanilla cultivation and earn extra income for their families

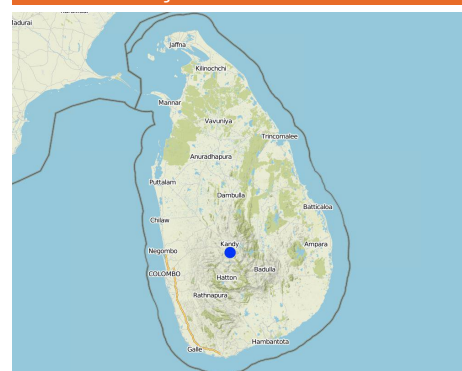
The average land size of home gardens in the Central Highlands of Sri Lanka is about 0.25 ac – 0.5 acre. Fruits and spice trees randomly exist in these land plots. The top soil is always disturbed due to daily human activities. Apart from run-off water from upper lands, roof top rainwater flows in all directions causing heavy soil erosion in the home gardens. The home gardens are the least attended land plots in terms of conservation.

Vanilla SLM model is an economically attractive opportunity for women in potential growing areas where ideal environmental conditions are existing. The objectives of the approach are to reduce soil erosion in the home gardens due to daily human activities and introduce a cash crop with higher economic benefit; in general, to promote awareness for sustainable land management (SLM) among the community.

The strategy is to motivate landowners towards SLM: mainly through income generation. Women groups were considered and selected as most suitable target group for the approach. Income generation through this approach help them to improve their social and financial status.

The methods of the approach were following: The women groups were accompanied to well managed vanilla cultivation (exposure visit) to explain and show them about the financial benefits of vanilla plantations. Further, importance of SLM Techniques of Vanilla cultivation were discussed and demonstrated. Next step is practical training on individual farm planning, selection and implementation of SLM techniques according to the farm plan and finally, the maintenance phase of the vanilla plantation starts. The extension officers of the Department of Agriculture support the whole implementation process in each home garden. The project 'Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwara Eliya Districts in the Central Highlands of Sri Lanka (GEF Project ID: 5677)' supports the overall coordination and as well directly, the women group with planting materials. Technical support on SLM and the cultivation is provided by the Department of Export Agriculture and and coordination and facilitation of trainings by the Agrarian Services Center of the area. The female farmers have formed their own Vanilla Growers Association and they organize their own training programs on negotiation skills and marketing arrangements. Private vanilla processors and marketers are linked with the women group. This means, the field coordinator of the Vanilla processing and exporting company trains the farmers on quality vanilla production, assures the market linkage that keeps farmers interest in SLM and vanilla cultivation at high level, and he concludes sales contracts with the farmers.

LOCALIZAÇÃO



Localização: Doluwa, Central, Sri Lanka

Geo-referência de locais selecionados

• 80.63776, 7.18808

Data de início: 2018

Ano de término: n.a.

Tipo de abordagem

- ☐ Tradicional/Indígena
- ☐ Iniciativa/Inovação local recente
- ☒ Baseado em projeto/programa



Practical training on land preparation: contour beds are protected with coconut husk (Bandara Rotawewa)



Planting beds prepared and protected with coconut husk and old roof tiles. Grilicidia post are in rows and the Vanilla vine is planted to each post. (Bandara Rotawewa)

OBJETIVOS DE APROXIMAÇÃO E AMBIENTE PROPÍCIO

Principais metas / objetivos da abordagem

- Introduce SLM in home gardening
- Introduce vanilla cultivation as a sustainable source of income for women, encourage them to effectively use their free time for income generation
- Add economic and esthetic value for backyards and home gardens.
- Increase environmental awareness among women and inculcate positive attitude towards environmental protection

Condições que permitem a implementação da Tecnologia(s) aplicada(s) sob a Abordagem

- **Normas e valores sociais/culturais/religiosos:** Women play an important role in income generation for the family. The income from the vanilla as a highly valued product improves their social status.
- **Disponibilidade/aceso a recursos e serviços financeiros:** Vanilla is a cash crop and the risk of crop failure is minimal. Therefore the income is expected to grow and, the accessibility to financial resources and services should increase as well.
- **Quadro institucional:** The female farmers have formed their own Vanilla Growers Association and they organize their own training programs and marketing arrangements.
- **Colaboração/coordenação de atores:** Technical support on SLM and the cultivation is provided by the Department of Export Agriculture and Agrarian Services Center of the area. Private vanilla processors and marketers are linked with the women group.
- **Quadro jurídico (posse de terra, direitos de uso da terra e da água):** The approach is practiced around the living house of the families; the surrounding home gardens belong to them. The approach promotes techniques against soil erosion and the use of organic composts. There is no special demand for water since the crop growth bases on rain-fed agriculture.
- **Conhecimento sobre GST, acesso a suporte técnico:** The technical and extension officers of the government are available for technical support and advice. Private vanilla companies have employed extension officers and promote SLM practices as well. The crop yield mostly depends on the SLM techniques adopted.
- **Mercados (para comprar entradas, vender produtos) e preços:** The input requirement is very limited. The planting materials (vanilla cuttings) are easily available. The vine supporting Gliricidia tree is locally available. The SLM techniques applied are simple. The terraced preparation can be done with materials such as coconut husk and tree logs. The price for natural vanilla is high. The women has been formed into groups and they have developed negotiation skills about the vanilla market.
- **Carga de trabalho, disponibilidade de força de trabalho:** The type of the SLM practices are not labor-intensive. Family labor is sufficient to establish 100 - 200 vanilla vine with good SLM techniques such as single platforms and contour platforms. Vanilla can be seen as a labor neutral crop.

Condições que dificultam a implementação da Tecnologia(s) aplicada(s) sob a Abordagem

PARTICIPAÇÃO E PAPEL DAS PARTES INTERESSADAS ENVOLVIDAS

Partes interessadas envolvidas na abordagem e seus papéis

Que partes interessadas/órgãos de implementação estavam envolvidos na abordagem?	Especifique as partes interessadas	Descreva o papel das partes interessadas
Usuários de terra/comunidades locais	Land owners of Doluwa area (Sri Lanka) Lead farmer (Vanilla grower)	Land owners of Doluwa area (of Sri Lanka) : Participation on SLM training, production of vanilla under SLM practices, formed and members of vanilla growers group in the village to look after services, training and marketing Lead farmer (Vanilla grower) : Training facility and conduct trialing and experience sharing

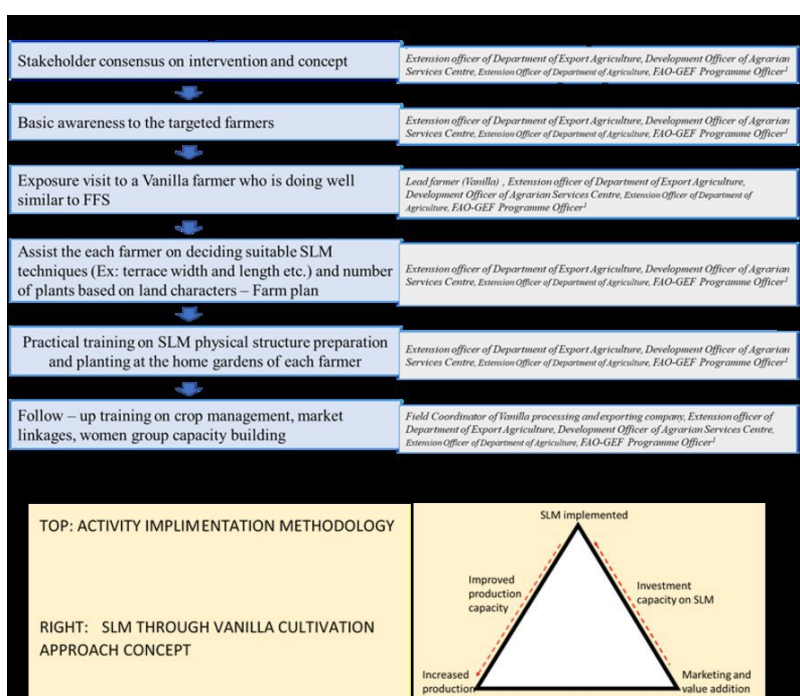
Especialistas em GST/ consultor agrícola	Extension officer of Department of Export Agriculture Development officer of Agrarian Services Center Extension officer of Department of Agriculture Programme officer of Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwaraeliya Districts in the Central Highlands (GCP/SRL/063/GFF) (GEF Project ID: 5677)	Extension officer of Department of Export Agriculture : Provide technical knowledge and training on vanilla growing Development Officer of Agrarian Services Center: Coordination and facilitation of training programs Extension Officer of Department of Agriculture: Training on SLM, farm plan preparation and demonstration FAO-GEF Programme Officer: Coordination, technical inputs on SLM and vanilla cultivation
Setor privado	- Field Coordinator of the vanilla processing and exporting company	Train the farmers on quality vanilla production, assure the market linkage that keep farmers interest in SLM and vanilla cultivation at high level, sales contract with the farmers
Governo nacional (planejadores, responsáveis pelas decisões)	Extension officer of Department of Export Agriculture Development Officer of Agrarian Services Center Extension Officer of Department of Agriculture	Extension officer of Department of Export Agriculture : Provide technical knowledge and training on vanilla growing Development Officer of Agrarian Services Center: Coordination and facilitation of training programs Extension Officer of Department of Agriculture: Training on SLM, farm plan preparation and demonstration
Organização internacional	Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwaraeliya Districts in the Central Highlands (GCP/SRL/063/GFF) (GEF Project ID: 5677) by Food and Agriculture Organization and Global Environmental Facility (GEF)	FAO-GEF Programme Officer: Coordination, technical inputs on SLM and vanilla cultivation

Envolvimento do usuários de terra/comunidades locais nas diferentes fases da abordagem

	Nenhum	Passivo	Apoio externo	Participativo	Automobilização
Iniciação/motivação				✓	
Planejamento				✓	
Implementação				✓	
Monitoramento/avaliação				✓	
Marketing				✓	
	Land owners, Department of Export Agriculture, Agrarian Services Center and FAO - RDAL project staff				
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	Land owners, Department of Export Agriculture, Agrarian Services Center and FAO - RDAL project staff				
	Land owners, Department of Export Agriculture, Agrarian Services Center and FAO - RDAL project staff				
	Land owners, Department of Export Agriculture, Agrarian Services Center and Vanilla exporters				

Fluxograma

Activity implementation steps and stakeholder involvement



Autor: Bandara Rotawewa

Tomada de decisão sobre a seleção da Tecnologia GST

As decisões foram tomadas por

- ☐ Somente usuários da terra (iniciativa própria)
- ☐ Principalmente usuários da terra, apoiados por especialistas em GST
- ☒ todos os atores relevantes, como parte de uma abordagem participativa
- ☐ Principalmente especialistas em GST, após consulta com usuários da terra
- ☐ Somente especialistas em GST
- ☐ Políticos/líderes

As decisões foram tomadas com base em

- ☒ Avaliação de conhecimento bem documentado de GST (tomada de decisão baseada em evidências)
- ☐ Resultados de pesquisa
- ☐ Experiência pessoal e opiniões (não documentado)

SUPORTE TÉCNICO, REFORÇO DAS CAPACIDADES E GESTÃO DO CONHECIMENTO

As seguintes atividades ou serviços têm sido parte da abordagem

- ☒ Reforço das capacidades/ formação
- ☒ Serviço de consultoria
- ☒ Fortalecimento da instituição (desenvolvimento organizacional)
- ☐ Monitoramento e avaliação
- ☐ Pesquisa

Reforço das capacidades/formação

Foi fornecido treinamento às seguintes partes interessadas

- ☒ Usuários de terra
- ☒ Equipe de campo/consultores

Tipo de formação

- ☐ Em exercício
- ☒ Agricultor para agricultor
- ☒ Áreas de demonstração
- ☐ Reuniões públicas
- ☐ Cursos

Assuntos abordados

Sustainable land management.
Vanilla cultivation

Serviço de consultoria

Foi prestado um serviço de consultoria

- ☒ nas áreas dos usuários da terra
- ☐ Em centros permanentes

Fortalecimento institucional

As instituições foram fortalecidas / estabelecidas

- ☐ Não
- ☐ Sim, pouco
- ☐ Sim, moderadamente
- ☒ Sim, significativamente

no seguinte nível

- ☒ Local
- ☐ Regional
- ☐ Nacional

Tipo de apoio

- ☐ Financeiro
- ☒ Reforço das capacidades/ formação
- ☒ Equipamento

Descreva instituição, papéis e responsabilidades, membros, etc.
Women producer group (Vanilla growers association)

Mais detalhes

On-site training on SLM techniques were done at individual farm level.
Exchange and support of planting materials

FINANCIAMENTO E APOIO MATERIAL EXTERNO

Orçamento anual em USD para o componente GST

- ☒ < 2.000
 - ☐ 2.000-10.000
 - ☐ 10.000-100.000
 - ☐ 100.000-1.000.000
 - ☐ > 1.000.000
- Precise annual budget: n.a.

GEF project: Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwara Eliya Districts in the Central Highlands of Sri Lanka (GEF Project ID: 5677)

Os seguintes serviços ou incentivos foram fornecidos aos usuários de terras

- ☒ Apoio financeiro/material concedido aos usuários da terra
- ☐ Subsídios para insumos específicos
- ☐ Crédito
- ☐ Outros incentivos ou instrumentos

Apoio financeiro/material concedido aos usuários da terra

Planting materials

ANÁLISE DE IMPACTOS E DECLARAÇÕES FINAIS

Impactos da abordagem

A abordagem concedeu autonomia aos usuários locais de terra, melhorou a participação das partes interessadas?
Strong stakeholder participation between land users and Extension Officers is exists.

Não
Sim, pouco
Sim, moderadamente
Sim, significativamente

A abordagem propiciou a tomada de decisão baseada em evidências?

Most important motivator was the exposure visits, where the families/women recognized the success of the SLM practices on vanilla production and therefore decided to adopt it.

Não
Sim, pouco
Sim, moderadamente
Sim, significativamente

A abordagem auxiliou os usuários da terra a implementar e manter as tecnologias de GST? Single platforms and terrace platforms control erosion. Vanilla is well grown in soils of rich organic matter. Kitchen waste and fallen leaves added for compost making and use it on the vanilla cultivation.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem melhorou a coordenação e a implementação economicamente eficiente da GST? Easy terracing does not need construction of structures and skilled labor. Use of Gliricidia as supporting post is environmental friendly and freely available locally.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem aprimorou o conhecimento e as capacidades dos usuários da terra para implementar a GST? The approach is based on attitude change and motivation. Economical, social and aesthetic values are enhanced. Thereby, it create more and more interest with increasing returns.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem aprimorou o conhecimento e as capacidades de outras partes interessadas? Extension officers visit each land plot and they prepare individual farm plans based on the characteristics of the land (home garden).	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem construiu/fortaleceu instituições, colaboração entre partes interessadas? Improved linkage with extension officers and private sector	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem concedeu autonomia aos grupos social e economicamente desfavorecidos? Both, the vanilla and the SLM techniques does not require high investment. Therefore, even poor farmers can adopt the this approach and can get financial benefits.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
A abordagem melhorou a igualdade de gêneros e concedeu autonomia a mulheres e meninas? This approach targets women and it needs to promote capacity in learning SLM. As well, it is expected that the approach strengthen the economic and social position of local women.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem encorajou os jovens/as próximas gerações de usuários de terra a se envolverem na GST? This approach change the attitudes of the people. SLM techniques and income generation is demonstrated in their living environment	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
A abordagem melhorou o acesso aos mercados? Vanilla is a market competitive product and women group has organized their own market links.	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
A abordagem aprimorou a capacidade dos usuários da terra de adaptar-se a mudanças climáticas/extremos e atenuar os desastres relacionados com o clima? Use of organic manure and conservation techniques improves the soil physical and chemical properties. Improved soil properties support drought resistant capacity of Vanilla and other crops as well.	<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
A abordagem resultou em emprego, oportunidades de renda? The concept of the approach is to introduce SLM through income generation for female farmers	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>

Principal motivação dos usuários da terra para implementar a GSTAtividades de sustentabilidade de abordagem

<input type="checkbox"/> Produção aumentada	Os usuários da terra podem sustentar o que foi implementado através da Abordagem (sem apoio externo)?
<input checked="" type="checkbox"/> Lucro (lucrabilidade) aumentado, melhora da relação custo-benefício	<input type="checkbox"/> Não
<input checked="" type="checkbox"/> Degradação do solo reduzida	<input checked="" type="checkbox"/> Sim
<input type="checkbox"/> Riscos de desastre reduzido	<input type="checkbox"/> Incerto
<input type="checkbox"/> Carga de trabalho reduzida	Land owners get income after three years. Income is a motivation for the land owners to adopt and adapt SLM practices continuously.
<input type="checkbox"/> Pagamentos/subsídios	
<input type="checkbox"/> normas e regulamentos (multas)/aplicação	
<input checked="" type="checkbox"/> Prestígio, pressão social/coesão social	
<input type="checkbox"/> Afiliação a movimento/projeto/grupo/rede	
<input checked="" type="checkbox"/> Consciência ambiental	
<input type="checkbox"/> Costumes e crenças, moral	
<input checked="" type="checkbox"/> melhoria dos conhecimentos e aptidões de GST	
<input checked="" type="checkbox"/> Melhoria estética	
<input type="checkbox"/> Atenuação de conflitos	

CONCLUSÕES E EXPERIÊNCIAS ADQUIRIDAS

Pontos fortes: visão do usuário de terra

- In Sri Lanka vanilla is mainly confined as home garden and grown in the back yards. Vanilla is a cash crop that can be grown successfully in mid and low country wet zone where the main growing areas are Kandy, Nuwara Eliya, Matale, and Kegalle districts. Vanilla grows as vines with support trees.
- Vanilla has been identified as an ideal alternative crop for unproductive small holdings and home gardens. Low labor requirement and higher income are main advantages of vanilla cultivation and therefore women can use their free time for vanilla cultivation in their home gardens.
- Marketing advantage : Vanilla needs only organic fertilizer. A vanilla vine can produce nearly a kilo of vanilla per year and average market price would be around Rs. 6,000/ Kg.(34 USD) which is annually LKR 60,000 (342 USD). This income for the family promote their interest to adopt SLM techniques.

Pontos fortes: a visão do/a compilador/a ou de outra pessoa capacitada

Pontos fracos/desvantagens/riscos: visão do usuário de terracomo superar

- There is no major risk with this approach. Investment is minimal. The women allocate their free time for maintenance of the crop.

Pontos fracos/desvantagens/riscos: a visão do/a compilador/a ou de outra pessoa capacitadacomo superar

- No risks for the moment.

- SLM is easy to promote, as the land owner is benefited with high return. Therefore an economic model coupled with SLM is an option for easy implementation.
- Women play a major role in attitudes change in the society. If they consider the SLM practices positively, it is expected to spread easily to other crop lands.

REFERÊNCIAS

Compilador/a

Bandara Rotawewa

Editores

Revisor

Ursula Gaemperli

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Pessoas capacitadas

Bandara Rotawewa (rotawewa@yahoo.com) - Especialista em GST

Gunaseena Nimal - None

Jayaweera Upul - None

Wathukarage Tissa - None

Descrição completa no banco de dados do WOCAT

https://qcat.wocat.net/pt/wocat/approaches/view/approaches_5177/

Dados GST vinculados

Technologies: Crop-livestock integration to enhance soil productivity https://qcat.wocat.net/pt/wocat/technologies/view/technologies_6236/

Technologies: Individual platforms and contour platforms https://qcat.wocat.net/pt/wocat/technologies/view/technologies_5621/

Technologies: Individual platforms and contour platforms https://qcat.wocat.net/pt/wocat/technologies/view/technologies_5621/

A documentação foi facilitada por

Instituição

- n.a.

Projeto

- Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwara Eliya Districts in the Central Highlands of Sri Lanka

Referências-chave

- Opportunity Analysis of Agriculture Products in Sri Lanka. (n.d.). Retrieved from https://growthlab.cid.harvard.edu/files/growthlab/files/agri_sector_opportunities_feb_2018.pdf; Retrieved from https://sri.lanka.growthlab.cid.harvard.edu/files/sri-lanka/files/agri_sector_opportunities_feb_2018.pdf
- Jayawardane, & Weerasena. (n.d.). CROP DIVERSIFICATION IN SRI LANKA.: Retrieved from <http://www.fao.org/3/x6906e/x6906e0b.htm>

Links para informação relevante que está disponível online

- Govt. to rehabilitate degraded agricultural lands in central highlands under 5-year \$ 11 m project: <http://www.ft.lk/article/563548/Govt-to-rehabilitate-degraded-agricultural-lands-in-central-highlands-under-5-year---11-m-project>
- Rehabilitation of Degraded Agricultural Lands in Kandy, Badulla and Nuwara Eliya Districts in the Central Highlands (CH): <https://www.thegef.org/project/rehabilitation-degraded-agricultural-lands-kandy-badulla-and-nuwara-eliya-districts-central>
- Vanilla: http://www.exportagridept.gov.lk/web/index.php?option=com_content&view=article&id=139&Itemid=159&lang=en

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