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**Subject:** White Paper on Congo SAF Gardens Including Biological Control of Mosquito Malaria  
**From:** hopela@hopelausa.org  
**Date:** Mon, November 21, 2005 1:48 pm  
**To:** leejimmylee1@aol.com  
**Cc:** gogobabysis@juno.com ([more](#))  
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Jim Lee  
President  
First Management Group (FMG), Inc.  
Alpharetta, GA.

Dear Jim:

We anxiously await your return to Indianapolis, IN. and OBP Board meeting attendance in 2005. We have several steel frame housing development projects from 5 Operation Blackberry Patch (OBP) Board Members; i.e. Rev. Douglas Hairston of Mt. Zion Baptist Church and Jobs Partnership of Greater Indy President; Thomas Graham of Pythagorean Restoraton Company; LaDonna Johnson and Jonathan Douglas of Exact Supply, LLC.; Kamau Jywanza of Rehab Resources, Inc.] in the works.

Please find attached the requested "White Paper" on proposed SAF gardens in the Congo, Africa with potable water production and most innovative "biological control" subsystems and techniques addressing the malaria and pestilent fly problems in the Congo.

If FMG, Inc. were not a sister organization of BRCA, Inc. we would charge you \$7,000 for the development of this "White Paper." We are honored to submit it at no cost to FMG, Inc. based on the unprecedented "donation pledge" of \$1,000 per steel frame home built by FMG, Inc. and "pledged standard order" for every 40 steel frame homes so built a 10 acre SAF garden installation by BRCA, Inc. on lands cooperatively held and purchased by FMG, Inc.

It is prayed that the SAF Garden Model designed for the Congo presented in the attached "White Paper" will be allowed to be implemented in its entirety as it will help wipe out chronic poverty and insect based pestilence world wide.

Please also note that after extensive Internet research it is clear that the novel "biological control" elements recommended by BRCA, Inc. to be used against Congo mosquito malaria infestations using dragonfly nymphs, "Super Garlic" repellent plantings and extract spray are not new as shown in the 2001 attachment on dragonfly and bat natural control of West Nile River Fever mosquito vectors on islands off Maine and the attached 1998 "garlic extract mosquito control" patent.

What is novel is the integrated, synergistic effects, awesome self-funding capability, pollution free and natural simplicity of the use of such "biological controls" as in the SAF Garden model so designed by BRCA, Inc. for the Congo.

Please note that thousands of "Super Garlic" plants are grown throughout the 10 acre SAF Garden Model proposed for the Congo and applicable to any area with chronic poverty and serious mosquito and fly pestilence problems. In addition such harvested "Super Garlic" will be made in a herbal extract method not infringing on the patent cited and used as a repellent spray and larvidcide water additive.

Thus there is no need for enrolling entomologist research scientist endorsements. This is a sustainable technology development and demonstration issue and a need to be met by those with vision and foresight to implement them with venture capital and non-profit resources and strategies. It is hoped that after your review and evaluation of the "White Paper" you will agree that the FMG, Inc. and BRCA, inc. linkage together will make history with this SAF garden model designed for the Congo and integrated to FMG, Inc. modular housing developments there.

Clearly, the 150,000 children that die monthly world-wide from lack of proper mosquito malaria control could be entirely eradicated via the self-funded "biological controls" embedded and part of the operational technology of a 10 acre SAF Garden model.

Finally, we believe the impeccable and sustainable synergistic design of the 10 acre SAF Garden for the Congo so attached reflects the intrinsic value of BRCA, Inc. at \$10,000,000,000; the wisdom of your FMG, Inc. linkage to BRCA, Inc.; "donation pledge"; "pledge standard order" and the \$1,000 face value BRCA, Inc. Bonds.

Yours in service,

George W. Singleton, HD  
BRCA, Inc. President

State of the World Forum Member # 20827

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#### Attachments:

<a href="#">BRCA HLAUSAP SAF White Paper Congo Project 11 21 05.wps</a>	152 k	[ application/octet-stream ]	<a href="#">Download</a>
<a href="#">(no subject)</a>	13 k	[ message/rfc822 ]	<a href="#">Download</a>   <a href="#">View</a>
<a href="#">United States Patent: 5,733,552</a>	60 k	[ message/rfc822 ]	<a href="#">Download</a>   <a href="#">View</a>

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**WHITE PAPER: Use of Sustainable Agro-Forestry (SAF) Gardens including “Biological Mosquito & Fly Control” Biogenic Ponds in the Congo, Africa**

**A. Problem**

There is a need for *sustainable economic development* using *sustainable technologies* capable of documented significant *poverty reduction* to complement the affordable modular housing to be built by **First Management Group (FMG), Inc.** for people of the **Congo, Africa**. Specifically, there is a need for adjunct to housing integrated, *sustainable technological* subsystems providing opportunities in the world’s fastest expanding industry of “**certified organic**” food production complete with **biological filtration** potable water provision and **biological control** of fly and mosquito pestilences. **Congo’s** tropical forests and rugged land; its many lakes, rivers, streams and standing bodies of water and hot and humid weather dictate that an innovative, sustainable, comprehensive and synergistic initiative encompassing all these needs is most desirable. This *sustainable technological* system design must be culturally and environmentally harmonious, prosperity generating, cost effective and cost efficient.

**B. Solution**

For every 40 permanent modular housing units established by **First Management Group (FMG), Inc.** in the urban, suburban and village areas of rural **Congo** the **FMG, Inc.** will coordinate the installation and cooperative operation with the technical assistance of **BRCAI/Hope LA-USA Project, Inc.** of a prototype 10 acre **Sustainable Agro-Forest (SAF) garden** which will minimally produce annually 750,000 pounds of fresh “**certified organic**” food and 80 part time jobs at 4 hours/day. This will be accomplished without using foreign capital exchange draining and environmentally polluting agri-chemicals. Instead the **SAF garden** uses its own locally grown repellent and pesticidal flower and herbal plants and locally prepared extracts used as repellents, insecticides, fungicides, bactericides and viralicides.

The first food harvests would begin within 2 weeks of installment from the *seed sprouting subunits*. The **SAF gardens** installed would be on land in cooperative land trust, and serve as **self-funding prototypes** with expansion resources for other people of the **Congo** to replicate.

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At the heart of each 10 acre **Sustainable Agro-Forest (SAF)** garden is a 1 acre **Biogenic Pond** which 1.) produces irrigation water with “**Super Garlic**” extract additive acting as a systemic natural generic insecticide, 2.) provides **biological filtered** quality potable water for 40 extended family homes and 3.) furnishes **biological control** of mosquitoes and flies. In harmony with the **Congo** culture, men and older boys will be trained to install **SAF gardens** and to maintain the **Biogenic Ponds**; while the women and older girls will be trained to operate and maintain the **SAF gardens**.

**C. SAF Garden Technical Summary**

The **Sustainable Agro-Forest (SAF) garden model** is an integrated garden, orchard and forest horticultural system cultivated on the same land site with an **on-demand irrigation system**: A river, stream, creek, lake, pond, well and/or cistern irrigation water source will feed a **Biogenic Pond** with where necessary a deep well and solar deep water pump backup system. The 10 acre **SAF garden model** is capable of producing annually a minimal 750,000 pounds of “**certified organic**” food, while requiring only half (½) the water where properly installed and operated compared with conventional agricultural methods presently used in the **Congo** .

The **SAF garden** is cost effective and efficient in that it uses successfully **no** agribusiness chemical fertilizers, growth enhancers or genetically modified seeds. Instead it would use its own locally produced in the **Congo** recycled ground *deciduous* tree leaf **vermiculture** (intensive earthworm) based **humus** top soil generation derived from the sustainable horticultural anthropology of Ancient Egypt/*Kemit* and the modern works of Charles Darwin, PhD., Thomas Barrett, MD. and Alan Chadwick.

The **SAF garden** is labor intensive, requires fencing to avoid animal and human ground compaction damage to the **deep planting** and **vermiculture humus production beds**; and has **5 key model components** as follows:

- 1.) **Intensive vermiculture (high density earthworm cultivation)** in **humus production beds** using the “burrowing (gardening) earthworm” the “*African Nightcrawler*” (*Eudrilus Eugeniae*) resulting in earthworm feces or “**humus**” top soil production from recycled ground leaves as used in the Ancient Egyptian horticulture along the Nile River Valley.
- 2.) **Double and Triple Dug Deep Planting Beds** documented production at the **University of California at Davis** (Alan Chadwick) of 4 times the produce with ½ the water usage.

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- 3.) **Biological Horticultural Technique** of companion planting and natural insect repellent and pesticidal flowers and herbs including “**Super Garlic**” and African native **Marigold flowers** using no agri-chemicals and animal products in fertilization or in the control of pestilent weeds, insects, fungus, virus and bacteria.
- 4.) **Three Tiered Cultivation Technique** of garden, orchard and forest plants and trees integrated on one land site using “**super trees**” like the *Paulownia* and *hybrid Poplar* as wind breaks, sun canopies, flood soil anchors and big cash crop capable of deployment in desert, marginal, strip mined, periodic flooded and polluted lands.
- 5.) **On Demand Irrigation System** involving where necessary deep drilled well serviced by a prototype solar deep water pump feeding into irrigation **Biogenic Pond** covered by a mobile solar greenhouse with: **a.)** solar water purification and **biological filtered** pond water subunits for household potable water preparation; **b.) Emperor dragonfly** nymph (larvae) raising for dragonfly water borne and air borne mosquito control and malaria prevention and air borne pestilent fly control; and **c.)** liquid “**Super Garlic**” herb extract irrigation water delivered as systemic fly and mosquito and horticultural pestilent repellent and insecticide.

**D. Biogenic Ponds: Potable Water and Biological Fly & Mosquito Control of Malaria & Other Pestilences**

**Biogenic Pond** provides the following *biological control* of pestilent flies and mosquitoes:

**1.) On Demand Irrigation Water Production**

**a.) Irrigation *Pi* Water Production with “Super Garlic” Herb Extract Additive**

- 1.) “**Super Garlic**” Herb Extract Kills Mosquito Larvae (*Larvicide*)
- 2.) “**Super Garlic**” acts as a Systemic Plant and Generic Insecticide
- 3.) Proprietary Irrigation ***Pi* Water** Increases Food Produce Harvest Yields
- 4.) Proprietary Irrigation ***Pi* Water** Increases Forest Product Harvest Yields

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**b.) Mobile Solar Greenhouse Pond Cover**

- 1.) Solar Powered Environmental Temperature & Humidity Vents
- 2.) Suspended Floor Over Pond for Greenhouse Plant Production

**2.) Passive Solar Potable Drinking and Biological Filtering Cooking water production**

- a.) passive solar water distillation units (commercial @ \$100/unit)
- b.) portable activated charcoal and *Pi* water production filtering units (commercial @ \$35/unit)

**3.) Biological Fly and Mosquito Control of Malaria and Other Pestilences** where the *Biogenic Pond* provides the proper environment for **Dragonfly Nymph** breeding and **Dragonfly Adult** molting

- 1.) Certified **Congo** Appropriate Specie ; e.g. *Emperor, Dragonfly Nymphs* (commercial @ \$1.50/nymph)
- 2.) **Dragonfly Nymphs** feed upon Mosquito Larvae while living in the water from 2 to 3 years requiring their pristine water quality be *biologically controlled* in the *Biogenic Pond*
- 3.) **Dragonfly Adults** with double wings fly over and around *Biogenic Pond* can fly at up to 60 mph eating air borne non-blood sucking male Adult Mosquitoes, blood sucking female Adult Mosquitoes, flies and other flying insects at a rate of 60/minute

**E. 10 Acre SAF Garden Installation Cost Budget**

For every temporary 40 housing units and for every 40 permanent modular housing units *First Management Group, Inc.* establishes the following 10 Acre Sustainable Agro-Forest (SAF) Garden Installation Cost Budget \_\_\_\_ 50% Discounted is in effect.

	<b>In-Kind Donation</b>	<b>Cash</b>
1.) LEASE OR PURCHASE OF 10 ACRES (420,000 SF)		\$200,000 (FMG, Inc.)
2.) SECURITY FENCING (9,000 FT x \$4/FT)		\$36,000
3.) 1 ACRE BIOGENIC POND WITH DEEP WATER WELL (1500 FOOT) DRILLING AND CISTERN FED POND & 2 SOLAR DEEP WATER PUMPS AND DRAGONFLY NYMPHS		\$100,000
4.) LIABILITY INSURANCE	\$3,000 (BRCA, Inc.)	
5.) SAF TRAINEE HEALTH INSURANCE (BLANKET COVERAGE FOR 5 TRAINEERS)	\$14,000 (BRCA, Inc.)	
6.) DEEP BED INSTALLATION LABOR STIPENDS (1,840 BEDS X 8 HRS = 14,720 HRS)		
a. 7,360 HOURS X \$10/HR NONTAXABLE STIPEND BY 5 STIPEND WORKING 4 HRS/DAY TRAINERS		\$73,600
b.) 7,360 HOURS BY AVERAGE 20 UNPAID VOLUNTEERS WORKING 4 HRS/DAY	\$73,600 (Community Coop Workers)	
NOTE: 20 DAYS/MONTH TAKES 36 to 50 WORK DAYS OR 2 to 2½ CALENDAR MONTHS TO COMPLETE		

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7.) NILE VALLEY ( <i>Eudrilus Eugeniae</i> ) GIANT EARTHWORMS (2,000,000 @ \$0.015)			\$300,000
8.) INSTALLATION GROUND LEAF SOIL AMENDMENT (1,840 DEEP BEDS X 450 # = 828,000# @ \$1.50/#)	\$621,00		\$621,000
NOTE: BRCA, Inc.’s PROPRIETARY RECYCLED GROUND <i>DECIDUOUS</i> TREE LEAF BASED <i>HUMUS</i> TOP SOIL GENERATION PRODUCT			
9.) PAULOWNIA “SUPER TREE” VARIETIES (2,600 FOREST (70’) VARIETY TREES X \$5)			\$130,000
NOTE: ROOT ROT RESISTANT VARIETY SOURCED FROM CHINA			
10.) POPLAR “SUPER TREE” VARIETIES (1,300 MULTI-STEM FIREWOOD X \$5)			\$4,500
NOTE: VARIETIES AS DEVELOPED AND PROMULGATED BY THE STATE UNIVERSITY OF NEW YORK ATSYRACUSE			
11.) DWARF FRUIT TREES (900 BARE ROOT X \$10)			\$9,000
12.) APPROPRIATE CASH CROP NUT TREES (3,500 BARE ROOT X \$10)			\$35,000
13.) TOOLS AND MATERIALS			\$81,000
14.) BRCA, INC. SAF TECHNICAL ASSISTANCE (TA) DELIVERY FEE			\$80,000
<b>TOTAL: \$2,377,700</b>	<b>SUB-TOTALS:</b>	<b>\$894,600</b>	<b>\$1,483,100</b>

**NOTE: THE FIRST 12 MONTHS’ OPERATIONAL FUND BUDGET AND FUND RAISING STRATEGY NEEDED WHICH INCLUDES STIPENDS FOR 5 SELECTED SAF GARDEN TRAINEES.**