

RELOCATION OF A TSUNAMI AFFECTED VILLAGE AWAY FROM THE COAST

*A proposal submitted by the International Foundation for
Revitalization, Empowerment, Education and Development*



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Project abstract

The devastating tsunami wave that struck the coastal belt of Sri Lanka on the morning of December 26th, 2004 left nearly 40,000 people dead, over 100,000 homes destroyed or damaged and nearly a million homeless. This collaborative project is aimed at helping relocate the survivors of one coastal suburb in the Western Province to an inland location and help them rebuild their lives.

COLLABORATING ORGANIZATIONS

I-FREED

This project will be coordinated by Gemunu H. Gunaratne Ph.D. He is the Vice-President of I-FREED. He received his Masters Degree and Ph.D. from Cornell University and is currently a Professor and Associate Chairman of the Department of Physics, University of Houston, and a Visiting Professor at the Institute of Fundamental Studies in Sri Lanka. (See document on I-FREED background information for activities of the organization).

Society for the Upliftment and Conservation of Cultural Economic and Social Standards (SUCCESS) –Sri Lanka

SUCCESS, established in 1993 and registered under the Voluntary Social Services Organization Act No. 31 of 1980 (Sri Lanka), is devoted to uplift and protect the cultural, economic and social standards of Sri Lankan society. Most of its activities in the last few years have been in villages in the Northern and Eastern Provinces, where communities have been affected by an insurgency against a duly constituted government.

Activities of SUCCESS include caring for the sick and construction/rehabilitation of homes, places of worship and community centers. This organization has also completed projects facilitating the construction and administration of pre-schools, finding sponsors for scholarships to needy students, providing training and material to youth for self-employment, and offering relief to persons affected by natural disasters. SUCCESS has provided assistance in the form of food, clothing, books and educational items. During site-visits, volunteers routinely conduct medical camps for villagers and dispense medicines free of charge. Villagers are made aware of the dangers of tobacco and alcohol. Other volunteers present intensive courses in English and Mathematics for students. (See Appendix 1 for a partial list of projects undertaken by SUCCESS).

Following the tsunami, SUCCESS has directed much of its effort towards providing immediate and long-term relief to victims in coastal areas. They organized refugee centers for the affected in Panadura (a suburb in the western coast) in the immediate aftermath, providing cooked food, dry rations, medicines, and other essential requirements. Subsequently, SUCCESS held medical clinics in Panadura, Galle and Tangalle in the Southern Province and Trincomalee, Ampara and Pottuvil in the Eastern Province.

The Project Coordinator for this project, Gamini Perera, is a past president of SUCCESS (Colombo). He is a Chartered Civil Engineer and an arbitrator on Construction Industry Disputes in Sri Lanka.

All-Ceylon Women's Buddhist Congress (ACWBC)

All-Ceylon Women's Buddhist Congress (ACWBC) is an organization that was formed to help uplift living standards of girls and women in rural Sri Lanka. The mission of this organization is to provide training that leads to self-employment. ACWBC has provided courses in sewing, catering, hair-dressing, etc. ACWBC helps its graduates find employment in their home-towns. A significant portion of the graduates have successfully developed their own businesses and cottage industries. ACWBC is also active in rehabilitation of female prisoners in the country.

Since the tsunami, ACWBC has focused most of its attention to help rebuild the lives of tsunami victims. It has provided school supplies and uniforms for students and financially aided mothers who lost their husbands.

The Project Coordinator, Mrs. C. M. Fernando received her Master's Degree in Statistics from Cardiff University, United Kingdom. She was the statistician in the "Colombo Plan" Program for cooperative economic and social development in Asia and the Pacific, and at the National Science Foundation in Sri Lanka. Since retirement, she has been an active member in several charitable organizations.

PROJECT: CONSTRUCTION OF A VILLAGE IN HORANA



Project rationale:

The suburb of Panadura, on the western coast of Sri Lanka was affected by the tsunami, and a significant number of fishermen living on the coast lost their lives. Many others lost their houses, belongings, and vocations. The government

of Sri Lanka has decided that rebuilding houses near the coast is unsafe, and plans to relocate the villagers inland. A second large earthquake in the Indian Ocean in March 2005 provided support for this decision. The government has provided crown-land to build a village of 100 houses near the town of Horana, about 19 km from Panadura and 40 km from Colombo. I-FREED and SUCCESS propose to construct these houses and a social service center for the village.

Project site

The site provided is in a former rubber plantation and was made available on a priority basis for housing for families of the victims from the Panadura - Kalutara coastal area. It has been cleared of all trees and a network of unpaved roads provide access. While ground conditions are satisfactory for building, some land development is needed prior to construction. The project will have no adverse environmental impact on the area.

Public transportation is available to the site. Schools and hospitals are within easy reach of the occupants. The Waulagala Industrial Colony, which is about one kilometer from the site and other industrial estates located within easy reach, provide employment opportunities. The soil is suitable for cash crops, which would yield supplementary income. Thus, the location is well suited for housing the displaced people. This is borne out by the fact that over 100 families from the Panadura- Kalutara coastal belt have already applied for houses in Horana.

Site availability and conditions

The Divisional Secretary for Horana has requested that SUCCESS carry out the housing project on this site (See Appendix 2). Eight acres of land comprising 100 blocks (each 12 perches) and the roadways have been developed. The Divisional Secretary has allocated this land to SUCCESS to construct the village. The extent of land is shown on the sketch on Appendix 3. Prior to commencing construction, the blocks will be officially allocated to each beneficiary (See Appendix 3).

I-FREED and SUCCESS have requested additional land for a small playground, community centre and pre-school to serve the project families. A center of worship ((Buddhist) that is in a very poor condition due to lack of regular maintenance will also be renovated. If there is a demand by the new settlers for a place (places) of worship, SUCCESS will find sponsors to undertake development of these buildings as a separate project later.

Houses and amenities to be provided

The floor plan for the houses (500 square feet) is shown on Appendix 4. Each house has two bedrooms, living room, dining room, a kitchen and a toilet. An agreement with the beneficiaries regarding customized variations of the floor plan for the houses will be obtained once land is allocated to them.

Houses will be complete with internal electrical wiring and accessories, plumbing and septic tanks for sewage disposal. Provision has been made for the cost of connecting the electricity and water supplies to the respective public utilities on the site roads. Overhead electricity lines are available up to the eastern boundary of the site. A new water supply project to supply Horana is under construction by the National Water Supply and Drainage Board of Sri Lanka and is scheduled for completion in December 2005. Provision has also been made for laying the water distribution network along the site roads.

ACWBC and I-FREED plans to continue uplifting the standards of the new community. A medical team will visit the site regularly and provide medical advice to the occupants. ACWBC will provide training for young women in sewing, catering, and other relevant activities at their location in Colombo. They will provide loans for the graduates to form their own small businesses. SUCCESS and I-FREED proposes to construct a Social Service Centre comprising 4 units to be rented for such enterprises. Two blocks of land will be made available for this purpose and an arrangement acceptable to the Divisional Secretary will be agreed as regards the handing over of the center either to the local authority or to an association to be established by the settlers. A pre-school will also be included in the Social Service Center. The staff for the pre-school will be trained by the ACWBC.

Preliminary discussions have been held with the principal of the nearby school regarding admission of children of the families to the school. He was very receptive to the idea of improving some of the existing facilities in order to accommodate the new students. A provisional sum of Rs. 800,000 has been included in the project estimate for this purpose.

Project design, procurement and administration

A number of institutions and consultants have volunteered their services towards design, procurement and administration of this project. However, for a project of this size, I-FREED and SUCCESS expects to provide some administrative expenses. A majority of the work is of a repetitive nature and such costs are expected to be minor compared to that of construction. A contractor for the construction will be selected on the basis of competitive tendering and stipulated time limits for completing the work. All financial matters will be subjected to an independent audit and reports will be made available to the donors.

The membership of SUCCESS includes competent professionals in various disciplines related to the project and their services (voluntary) will be utilized for the overall monitoring during project implementation. SUCCESS will appoint a team (See Appendix 5 for project advisory boards) to monitor and direct project activities. They will ensure that all work is executed and completed within the stipulated time while maintaining transparency. Ms. C. M. Fernando (coordinator, ACBWC) will oversee the vocational training program at their headquarters in Colombo. She will also determine the needs of the women who wish to be self-employed.

The Executive Committee of the I-FREED will disburse funds to SUCCESS and ACWBC in several installments. The suitability and quality of the prior work on the project will be decided by I-FREED before funds are allocated for the succeeding segments of the project.

Budget

A Bill of Quantities has been prepared and a summarized estimate of the total cost is as follows:

Construction cost

Activity	Cost US\$
Leveling site, forming and consolidating road platforms for access to building blocks, surface drains (Provisional)	7,000
Construction of 100 houses including internal electrical and plumbing works	390,000
Electrical and water supply connections	20,000
Water distribution network within site	6,000
Funds needed to construct the Social Service Center	10,000
Funds required to expand the capacity of the local school	8,000
Consultancy services including supervision, auditing and contingencies	16,000
Total for construction	457,000

Vocational training cost

Vocational training for 20 women	2,000
Providing supplies to initiate self employment	8,000
Total for vocational training	10,000

Total funds requested:

US\$ 467,000

Time Line

The construction of roads and buildings will commence within 2-3 weeks of receiving funds. The construction of housing units, to be implemented sequentially, is expected to take 12-18 months. Construction of the Social Service Center will begin at the initiation of the project.

Vocational training at ACWBC will commence as soon as funds are available and is expected to take 6-8 months. The construction of the Social Service Center and the school expansion is expected to be complete at this time.

APPENDIX 1: PROJECTS UNDERTAKEN BY SUCCESS

	(US\$1 = Rs. 100)
Rehabilitation of 7 temples damaged by terrorists	Rs. 755,000
Rehabilitation of residential facilities for monks in 8 villages in North and East	Rs. 782,000
Basic transport facilities to 14 remote villages in the North and East (Providing a truck, a taxi cab, ten motor cycles and fifty bicycles to facilitate transportation of local produce and the sick during emergency)	Rs. 1,650,000
Sirens to 6 villages to warn of impending terrorist attacks	Rs. 69,000
Construction of two agricultural wells and supply of agricultural implements to farmers resettled in five villages	Rs. 500,000
Cement / corrugated sheets for rehabilitating houses damaged by terrorist attacks - 35 in Kochchikawewa , Padaviya , 48 in Weherawewa, Welioya, 60 in Welgamwehera, Trincomalee and other villages	Rs. 800,000
Vocational training of select individuals and providing sewing machines, block making machine and brick making implements	Rs. 285,000
Assistance to voluntary teachers	Rs. 150,000
Building materials for constructing 75 toilets in Pollabedda village in Maha Oya, Eastern Province	Rs. 600,000
Providing urgent medical equipment to the Sri Lanka Army. (Included an ambulance to transport the injured from the war front to their base, special surgical needles and thread, AMBOU bags, Doppler Scan, skin grafting equipment, Pulse Oxymeter, a tractor and other urgent field requirements	Rs. 1,960,000
Medical camps - An ongoing project where 2-3 medical camps are conducted monthly at which about 1500 patients are examined	

and medications are provided free of charge. Annual expenditure: Rs. 1,200,000

Constructing of 10 houses in Panadura for Tsunami victims who lost their homes (construction in progress) Rs. 3,400,000

APPENDIX 2



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பிரதேசச் செயலகம் - ஹொரணை
DIVISIONAL SECRETARIAT - HORANA

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எனது இல. } HO/Div/6/3.
My No. }

ඔබේ අංකය }
உமது இல. } 28/02/2005 -
Your No. }

දිනය }
தேதி } The President
Date } SUCCESS Colombo
186/1
Stanley Tilakarathna Mawatha
Nugegoda

Dear Sir

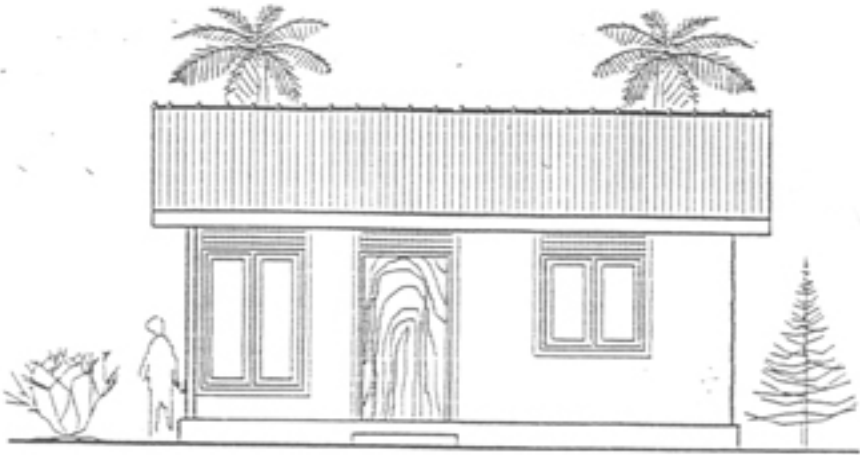
100 Houses for Tsunami Victims at Horana

I refer to the discussion I had with representatives of your organization on the 19 th February 2005 and to their subsequent visit to the site for the proposed houses for Tsunami families.

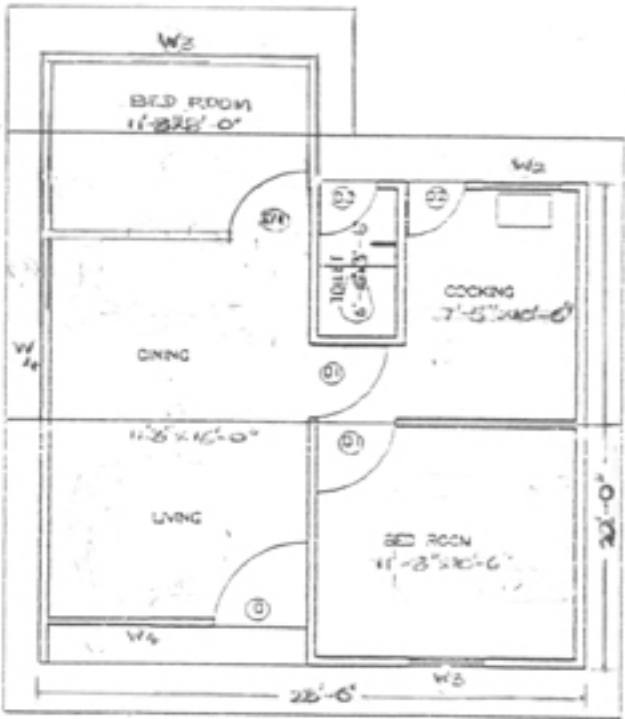
I am pleased to inform you that I am prepared to temporarily handover to your organization an extent of approximately 8 acres of land comprising 100 building blocks marked 654 to 753 or thereabouts in blocking out plan with the roadways, from part of the Waulagala Estate in Horana which has been acquired by government. You will have to utilize this land for constructing 100 houses with funds collected by your organization, which will be handed over to 100 families who lost their homes along the Panadura /Wadduwa coastal belt as a result of the Tsunami of 26 th December 2004.

Families numbering over 100 and who have applied to be re-housed In Horana have been identified . Prior to your commencing work on site each family will be formally allocated a block of land.
Please confirm early acceptance of this offer with your assurance that you would complete the project as soon as practicable , after which we would have to enter into a memorandum of understanding.

APPENDIX 4



FRONT ELEVATION



PLAN

Appendix 5

Project Advisory Boards

<u>Advisory board in USA</u>		Effort (%)
Project Directors	Gemunu Gunaratne, PhD	100
	Nuwan Samaranayaka MSc	50
	Namal Raigama MSc	50
Direct. Engineering/Planning	Mahendra Rodrigo PE	50
Direct. Accounting	Sumith Jayasuriya	50

Advisory board in Sri Lanka

Project coordinator	Gamini Perera	100
Direct. Medical Issues	Dr. Anula Wijesundara	50
Direct. Architecture	D. Waduge	50
Direct. Surveying	D. Jayawardhana	50

Project monitoring board appointed by SUCCESS

Dr Jayaweera Bandara, President SUCCESS
Dr Anula Wijesundera (Past President SUCCESS)
Gamini Perera (Past President, SUCCESS)
Dr D. Waduge , Chartered Architect.
A. Kumarapathirana, Quantity Surveyor.
Ms. Devika Jayawardena, Chartered Accountant.
G.S.De Silva, wide experience on building projects.

Project Organization

The effort indicated is the amount of effort put in by each advisory board member towards this project. G. Gunaratne, N. Samaranayaka, and N. Raigama will coordinate the project for I-FREED. They will be responsible for processing all documents and monitor activities of the project. Accounting assistance will be provide by S. Jayasuriya.. M. Rodrigo will coordinate engineering and construction details of the project.

G. Perera will be the overall coordinator for the project in Sri Lanka. Surveying and architectural aspects of the project will be conducted by groups under leadership of D. Jayawardhana and D. Waduge respectively. Dr. A. Wijesundara will coordinate the medical support provided to the villagers.

C. Fernando will take a lead role in the vocational training segment of the project. She will direct the training of villagers and will facilitate low-interest loans for graduates to develop their businesses.

APPENDIX 3

