

# Environmental Care

for

Our Precious Home – Earth

By

Shanthimalai TRUST

- Preserving the ancient and sacred Arunachala Mountain and its surroundings by keeping them clean and green...
- Conserving nature and its resources to mitigate global warming...



# OBJECTIVES MCPC

## 5 Acres of land to be effectively utilized by the establishments of following infra structures

- Implementation Centre for “Swachh Arunachala” to achieve the vision – “Restore Holy Arunachala's Feet”
- Institutional set up for Environmental Care wing
  - Office
  - Training Center to pass on knowledge on various environmental protection activities including hands on training and also creation of positive awareness
- Adequate water supply,
- Fencing,
- Sales counter for income to organic farming
- Nursery for the development of greenbelt as the part of mitigation measures to abate global warming
- Processing plant for source segregation to
  - Convert of organic waste into Bio manure and
  - Feedback the recyclables into recycling process

# OBJECTIVES YOGA MEDITATION CENTRE

Create model for grid-less “ECO FRIENDLY” houses

- Integrate Solar Photovoltaic Power as sustainable, renewable energy in the electrical supply to the houses
- Integrate Solar Thermic Power as sustainable, renewable energy for water heating in the houses
- Minimize the use of water by new sanitary toilet concepts
- Phyto Remediation treatment for overflow from Septic tank and sullage water

# PROJECT BENEFITS

- Restore Holy Arunachala's Feet to be Clean and Green
- Increased environmental awareness among all stake holders
- Fulfillment of the objectives of the Trusts
- Satisfying Legislative provisions of SWM rules 2016
- Healthy collaboration with Government under Swatch Bharat Mission
- Mitigation of Global Warming by the development of Green Belt, and Reduction in Chemical fertilizer by using organic manure
- Effective utilization GVS manpower and conversion of waste into beneficial products
- Employment opportunities for economically weaker section
- Imparting training/awareness program to stakeholders
- Educating students in schools and collages w. r. to Environmental Studies

# Project Timeline (April to Dec 2022)

Implementation timeline – 9 months

Oct - Dec

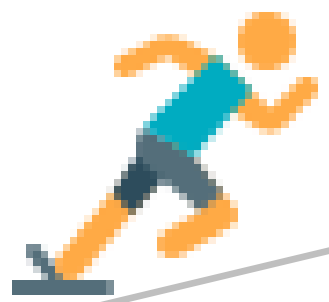


Aug - Sep

June - July

April – May

Start of Environmental Care Journey



- Collaborating with Government for Swachh Arunachala to achieve funding by German BMBF
- Starting sales of organic compost from Ashram

- Clearing & Removing of thorny wild shrubs at MPCP
- Fencing around the land
- Providing adequate water supply bore well – Pipelines
- Office set up
- Installation of Napkin Incinerator
- Sorting Shed in SRDT & SRM

- Revamping of existing Bio Digester
- Construction of cow shed
- Development of Nursery

- Providing compost plant and machineries shed
- Eco Friendly houses in SMT
- Fodder cultivation
- Green belt development in Tiruvannamalai

- Construction of vermi compost shed
- Sorting & Recycling Shed
- Establishment of Training Centre
- Demonstration Plot
- Sales outlet for organic compost, plants, vermic compost, liquid fertilizers, pest rippelent and organic products.

# DELIVERABLES

- Implementing Swachh Arunachala project, avoiding unscientific disposal of waste and conversion of beneficial products from waste
- Imparting training to the stakeholders, increase in capabilities of workers handling the waste
- Establishment of Nursery to promoting Green belt development to abate Global warming
- Production of organic manure, liquid fertilizers and pest repellants reduces the usages of chemical fertilizers and pesticides and Demonstration plots by using the inputs produced in the campus to promote organic farming
- Eco friendly houses for the effective treatment of wastewater and creation sustainable solar energy
- Revamping of existing Bio Digester
- Creation of Sales outlet of products of Shanthimalai & Plants
- Implementation of SWM in the premises of Ashram, SRTD and SRM
- Promoting Eco friendly model houses
- Collaborating with International industries/universities for technical know – how
- Creation of adequate water supply (Bore well, pipelining) and Fencing

Slide not needed already mentioned in Timeline

# PROJECT MANAGEMENT

Shanthimalai Trust (SRDT), Tiruvannamalai 606 603, South India, est. 1995, charitable and tax-exempted.

## **Responsible Project Manager:**

Rajasekar with the guidance of Vijayalakshmi

Monitoring entire operation and future formulation.

## PROJECT PARTNER

**Fraunhofer Institute Sulzbach-Rosenberg and BMBF Germany (under investigation)**

# COST ESTIMATE

Cost - Head	Description	Price (lakhs)	No	Total (lakhs)	Remarks
Capital Expenditure	Clearing & Removing of thorny wild shrubs	5.0	L.S	5.0	
	Fencing around the proposed land	7.0	L.S	7.0	
	Providing adequate water supply Bore well – Pipelines	4.0	L.S	4.0	
	Revamping of existing Bio Digester	1.5	1	1.5	
	Providing compost plant and machineries shed	3.0	1	3.0	
	Construction of vermi compost shed	1.0	1	1.0	
	Sorting & Recycling Shed	1.5	1	1.5	
	Development of Nursery	2.0	1	2.0	
	Establishment of Training Centre & office	2.5	1	2.5	
	Demonstration Plot	1.0	1	1.0	
	Sales outlet	3.0	1	3.0	
	Baling Machines	3.0	1	3.0	
	Cow shed	1.5	1	1.5	
	<b>Sub total</b>			<b>36.00</b>	
Operational Cost	Manpower and maintenance cost		Annum	<b>7.5</b>	
	<b>Total</b>			<b>43.5</b>	



# QUALITY ASSURANCE

[Describe the distinctive actions to secure quality of project output]

1. Regular Monitoring the operation, surprise inspection by Trustees
2. Maintaining records for sweeping, collection, transporting, processing and disposal
3. Evaluating the efficacy of the training and feedback
4. Regular checking of the quality of Bio manure, Liquid fertilizers etc.,
4. Documentation
5. Regular reporting to EC Committee

# RISKS AND MITIGATION

[Describe specific risks which could jeopardies project results]

Sl.No	RISKS	MITIGATION
01	Intrusion of wild animals/monkeys and theft	Proper fencing with security personnel
02	<b>No cooperation of Govt officials for Swachh Arunachal projects – highest risk</b>	Continuous follow up with officials though steering committee
03	Collection of un-segregated waste	With proper awareness and strict implementation of legislation
04	Lack of environmental awareness among pilgrims and residents - Annadhanam	Forming of separate monitoring group and creation of awareness and strict implementation of legislation including the levying fine for defaulters
05	Lack of proper places for Environmentally safe disposal of garbage	Reduction of waste by following 7 R's Principles especially source segregation
06	Finance	Self-sustainable model by selling the products/ Levying charges for training/ getting environmental projects from Government. Application for funding in Germany