



CSIR-800 PROJECT

@

**CSIR-CENTRAL ELECTROCHEMICAL RESEARCH INSTITUTE,
KARAIKUDI**



SCIENCE WITH A HUMAN FACE
ADDRESSING ASPIRATIONS OF THE POOR PEOPLE OF
RAMANATHAPURAM AND SIVAGANGA DISTRICTS, TAMIL NADU

THROUGH
SCIENCE AND TECHNOLOGY INTERVENTION

CSIR-800: CSIR's S&T Interventions for Rural Benefits

“It is science alone that can solve the problems of hunger and poverty”

Pandit Jawaharlal Nehru

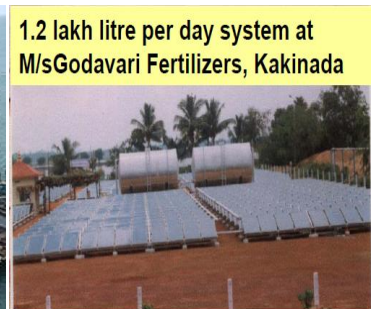
- Science and Technology has always been a major driver of a nation's socio-economic development.
- CSIR has a long history of developing appropriate technologies for the common man that is in use today.



E.g., Soleckshaw



Re-engineering Pamban railway



1.2 lakh litre per day system at M/s Godavari Fertilizers, Kakinada

Solar heaters



Solar electro-defluoridation



Bio-diesel compatible tractors



1000 LPD ceramic membrane based reactor for grey water



Drinking water using Terafil



Quality & Yield improved Salt produce in coastal areas



Samadhan Kendra

“The true India is to be found not in its few cities, but in its seven hundred thousand villages. If the village perishes, India will perish too”

Mahatma Gandhi

CSIR-800, a societal program believes that ending poverty and empowering the poor is the surest way to improve the quality of their lives and augment their income.

CSIR-800 Objective at the national level

- To augment incomes and quality of lives of 1 million citizens at the base of the economic pyramid and to develop models replicable in other parts of the country

OBJECTIVES for CSIR-800 Program @ CECRI

- To augment incomes and quality of lives of 40,000 citizens at the base of economic pyramid distributed in Ramanathapuram and Sivaganga districts and develop models replicable in other parts of Tamil Nadu
- Achieve it by using innovative science and technology solutions (CSIR/Non-CSIR based ones) that are socially and economically relevant in the theme areas of:
 1. Affordable health,
 2. Energy Efficiency,
 3. Low cost housing and transport,
 4. Value Added Agriculture,
 5. Sustainable Energy,
 6. Potable water and
 7. Waste to Wealth

Road Ahead:

The project will be strategically implemented through the identification of a cluster of villages (called “Techvil” or Technology enabled villages) around a common base (called “Gram Vigyan Kutir”) from where the technology roll-out takes place for the transformation of villages to technology enabled villages, effecting the empowerment of rural poor.

Modus Operandi:

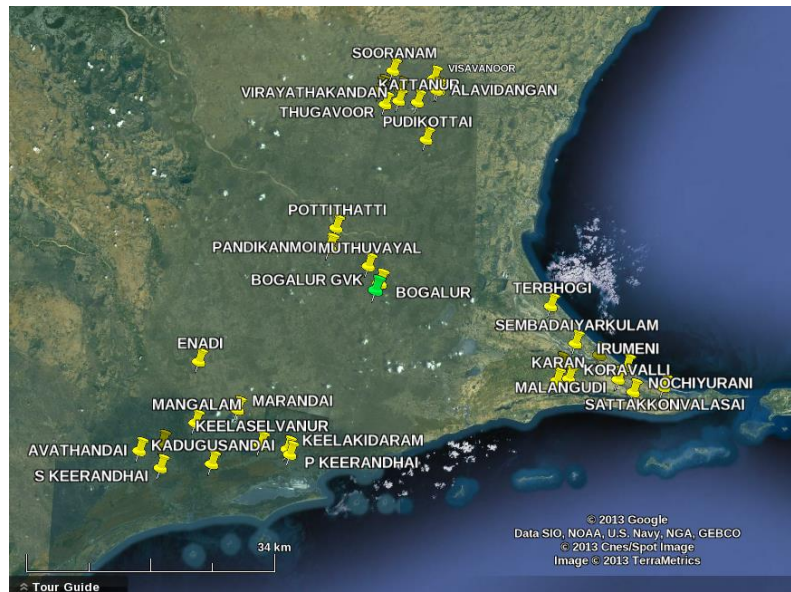
1. Identification of backward villages through district administration
2. Collecting Primary Techvil Information to understand the socio-economic status, resource availability, infrastructure etc. of the villages
3. Partnering with non-CSIR players like NGOs, District administration, local colleges, universities, corporate bodies etc. to achieve the objectives
4. Based on this a priori information roll out standard technologies (that have been developed over years by CSIR – It has got a chain of 37 laboratories focussing on R&D in different disciplines including technologies) in the villages for meeting their essential needs and simultaneously conducting Need Assessment Surveys(NAS)
5. Identification of specific technology solutions based on NAS and source or create requested technologies and also developing entrepreneurs for technologies
6. Monitoring of the progress is done by CSIR-800 Program Co-ordination centre located at NAL, Bangalore and any corrective action needed will be taken thereafter.

Progress made so far:

- Identified 35 villages (techvil cluster) in the two districts along with the respective district administration of both Ramanathapuram and Sivaganga districts for the CSIR-800 program implementation

List of the techvils chosen for S&T intervention under CSIR-800			
SIVAGANGA DISTRICT	RAMANATHAPURAM DISTRICT		
ILAYANGUDI	MANDAPAM	KADALADI	BOGALUR
Aranmanaikkurai	Sembadaiyarkulam	Keelaselvanur	Bogalur (GVK)
Alavidangan	Keelanagachi	P. Keeranthai	Pottithatti
Kattanur	Therbogi	Keelakidaram	Pandiakanmoi
Kalangathankottai	Kumbaram	S. Keeranthai	Muthuvayal
Pudukkottai	Karan	Kadugusanthai	
Sooranam	Irumeni	Pillaiyarkulam	
Thugavur	Sathakonvalasai	Avathandai	
Udayanur	Koravalli	Enadhi	
Vandal	Manankudi	Maranthai	
Virayathakandan	Nochiyoorani	Mangalam	
Viswanur			

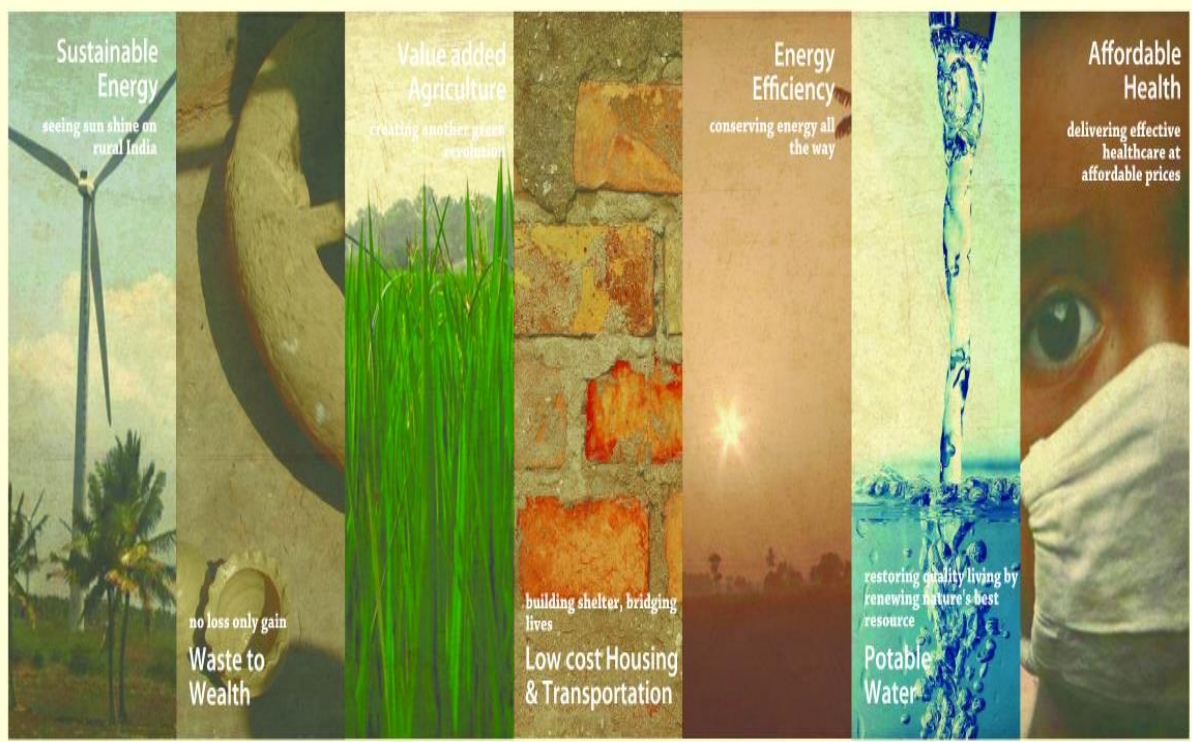
Google Earth Imagery showing the techvil



- Collected Primary techvil information from Ramanathapuram district
- Bogalur, Ramanathapuram district will act as the base where the Gram Vigyan Kutir (GVK) will be constructed for serving the villages of the techvil. The district administration has given in principle agreement to provide 0.5 acre of land in Bogalur Panchayat Union for GVK construction, that will have provision to train rural entrepreneurs for economic empowerment
- Architectural design competition is being conducted among local engineering colleges of southern Tamil Nadu to design the GVK and the best design will be chosen for implementation using resources available locally, to the maximum possible extent.
- Established contacts with various departments of the district administration like TWAD, District Industries Centre, Panchayat offices, Govt. recognized NGOs, Mahalir Thittam, etc in addition to partnering with NIT, Trichy for the conduct of architectural design competition and also in construction of GVK.

For any enquiries/clarifications, contact:

Dr. V.V.Giridhar,
Sr. Principal Scientist & Project Co-ordinator,
CSIR-800 Project,
CSIR-Central Electrochemical Research Institute,
Karaikudi – 630 006, Sivaganga District, Tamil Nadu
Ph: 04565-241483 E-mail: giridharvv@gmail.com/giridharv@cecri.res.in



Sustainable Energy

seeing sun shine on rural India



no loss only gain
Waste to Wealth



Value added Agriculture

creating another great revolution



building shelter, bridging lives
Low cost Housing & Transportation



Energy Efficiency

conserving energy all the way



restoring quality living by renewing nature's best resource
Potable Water



Affordable Health

delivering effective healthcare at affordable prices

