INFORMATION BROCHURE ON GRAM VIGYAN KUTIR

CSIR – 800 program is initiated in the identified group of villages of backward districts to technology – enable them (TECHVIL). The primary objective of the project is to instill in people the belief that appropriate technology solutions exist to improve their quality of life. **CSIR – 800** is being carried through various CSIR laboratories in different zones of India to provide technological assistance to people of identified backward regions in the fields of value added agriculture, potable water, waste to wealth, and the other themes of CSIR – 800.

A Gram Vigyan Kutir (GVK) will be constructed in each of the identified TECHVIL. GVKs are places where CSIR scientists and partners can spend time in a village setting and nurture their technologies to take root. The GVKs will be operated by CSIR for five years or till the end of CSIR-800 program, and then GVKs will be handed over to the village authorities.

CECRI, Karaikudi, Tamil Nadu has identified a cluster of backward villages in Ramanathapuram and Sivaganga districts to implement the CSIR - 800 project. The group of villages forming the TECHVIL is identified and a Gram Vigyan Kutir (GVK) will be constructed in the village Bogalur, Ramanathapuram District.

GVK Space Requirements:

- Entrance hall will serve the following functions:
  As a small training hall;
  As an office space with one or two computer systems;
  As a place where training materials will be kept and distributed; and
  As a place to display a few select CSIR technologies on a rotation basis ---------50 sq m
- One small kitchen for guests ----------10 sq m
- Two bed rooms ---------- 2 x 25 = 50 sq m
- One bath room to be shared by the 2 bed rooms ----------10 sq m
- One large toilet and washroom for use by trainees and guests ----------15 sq m
- A large open courtyard to hold most training programmes ----------100 sq m

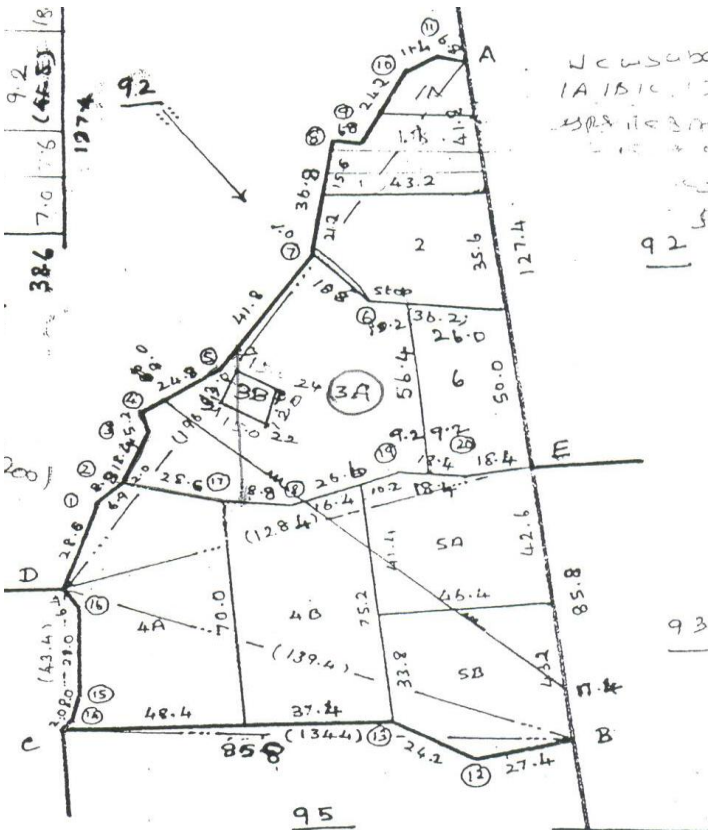
(Total 135 sq m closed space + 100 sq m open space)

GVK – Architectural Design shall be

- Context specific, blending with its environment and accepted by community
- Innovative and simple model house
- Serve in infusing sense of community
- Allow for expansion and space for outdoor activities
- Incorporating local technologies and skills of the people
- Incorporating energy efficient and sustainable technologies
- Incorporating relevant construction materials, construction Technologies and other services Developed by institutions such as **CSIR – CBRI**.

As one of the objectives of GVK is to showcase the CSIR products for houses, GVK is to be designed by incorporating CSIR products for houses – tiles, bricks, doors, window panels, smokeless stoves, sanitary ware, etc. and building technologies developed by institutions such as CBRI for various building components such as foundation, walls and roofs.

Site:



(Detailed Site map with dimensions to be included)

The site area is **0.5 acres**. The site is located in the village Bogalur, within the premises of Panchayat union office. It is located on the road connecting the NH and railway station. It is also located close to a school in the main village, bus stop and railway station and it is easily accessible to children, people from the surrounding villages. This site is being procured from the Ramanathapuram collectorate/ Bogalur Panchayat union office. No vegetation exists over the selected site for GVK and the soil is Clay alluvial.

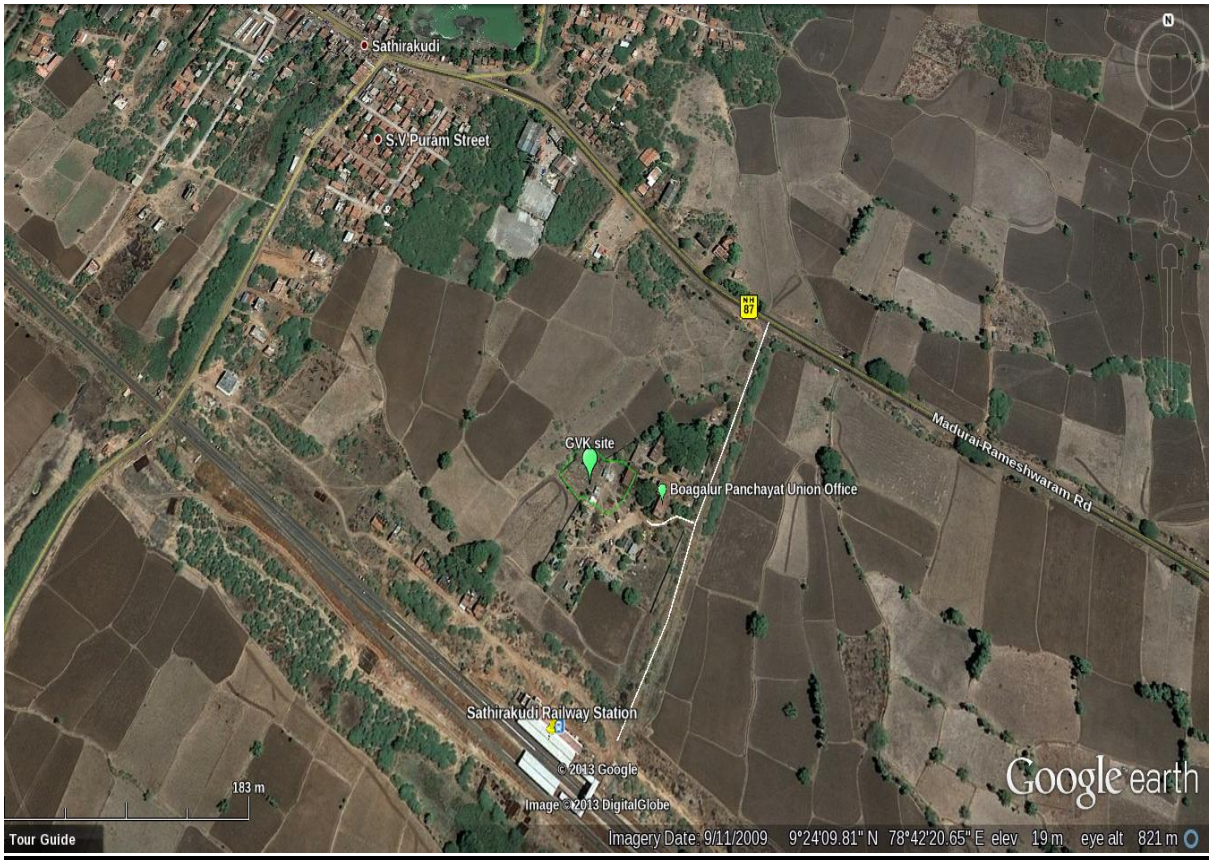
View of the Site

Local Architectural Character of the Place:

Village people informed that most of the traditional structures were constructed with mud walls and thatch/ tile roofing. Few traditional buildings were constructed with brick and lime mortar also. But most of these structures do not exist now. In the present day constructions people are using brick masonry walls with RCC roof or Mangalore tiled roof. Country made bricks are available nearby and also at a reasonable cost. River sand is very costly as it is not available in the area and it has to be transported from long distance. Gravel is transported from places such as Melur and Virdhunagar.

Panoramic View of the Village

Details of Traditional House in Kumbharam Village


Sathirakudi
S.V.Puram Street
NH 87
Madurai-Rameshwaram Rd
GVK site
Boagalur Panchayat Union Office
Sathirakudi Railway Station
© 2013 Google
Image © 2013 DigitalGlobe
183 m
Google earth
Tour Guide
Imagery Date: 9/11/2009 9°24'09.81" N 78°42'20.65" E elev 19 m eye alt 821 m

ARCHITECTURAL COMPETITION

The students of Department/ Schools of Architecture located in the southern districts of Tamil Nadu are invited to participate in the Architectural Design competition for the design of GRAM VIGYAN KUTIR. Students can participate in the competition either individually or in a group of not more than 3 people.

"BE PROUD TO PROVIDE INNOVATIVE ARCHITECTURAL DESIGNS FOR THE FIRST GRAM VIGYAN KUTIR IN TAMIL NADU"

Competition Entries:

Students need not register for the competition. Students are advised to write their names, institutions and the no. of drawings they have submitted on a separate sheet and send it along with drawings. **Students should not write their name or disclose their identities in any of the drawings.** Drawings once submitted shall not be returned to students.

Drawings Requirement:

- Site Plan, 1:200 Scale
- Floor Plan, 1:50 Scale
- Minimum two elevations and sections, 1:50 Scale
- Interior and Exterior three dimensional drawings/ sketches of the proposed building
- Sheets to explain construction technologies and materials
- Sheets to explain the energy efficient and sustainable technologies adopted in the design
- Model, 1:50 Scale

All drawings shall be presented in A2 size sheets. The total number of sheets shall not exceed 10.

For the information to the students who are participating in the architectural design competition:

You may find some interesting innovative designs in the 1000$ houses category in the following website. Although this is only indicative, you should give your own design suiting our requirements and our techvil scenario.

http://web.mit.edu/newsoffice/2011/1k-house-prototype-0915.html

Some more additional information

1. Training hall – to accommodate approx. 40 people
2. 2 double bed rooms with attached bathroom
3. Space to display of CSIR products (like terafil from IMMT, Bhuvaneswar, Soleckshaw-CMERI, Durgapur etc.)
4. 1 kitchen
5. 1 common bathroom/toilet

GVK infrastructure:

1. Ventillation (CSIR lab doors ,windows)- IMMT, Bhuvaneswar, AMPRI,Bhopal have some such materials for doors/window panels
2. Bathroom/Toilet Sanitary ware (CSIR) – CGCRI, Kolkatta has some technology for ceramic wares

(Additionally you may browse any of the CSIR lab websites to draw the products available with them for use to your architectural design of the GVK TECHVIL)

Competition Jury:

The actual composition of the competition jury shall be decided jointly by

The Director, CECRI, Karaikudi (directorcecri@gmail.com), The Director, NIT, Trichy ("sundar" sundar@nitt.edu) and Dr. Ehrlich Desa (National Coordinator, CSIR-800 program) – (ehrlich.desa@gmail.com)

and may include

- A Civil Engineer, CECRI, Karaikudi
- One or Two Practicing Architects
- One or Two Architects from Institutions such as NIT, Tiruchirappalli
- Any other member(s) suggested by the deciding authorities.

Prize Money:

- First Prize: Rs. 10,000/- plus certificate
- Second Prize: Rs. 5000/- plus certificate
- Third Prize: Rs. 3000/- plus certificate
- All participants shall receive participation certificate

The last date for submission of complete set of drawings is extended upto: 8th April 2013

Send the complete set of drawings along with the information sheet to the following address:

The Project Co-ordinator
CSIR – 800 Programme
CECRI, Karaikudi – 630006

For any further details, contact: giridharvv@gmail.com

Subbaiyang@yahoo.in