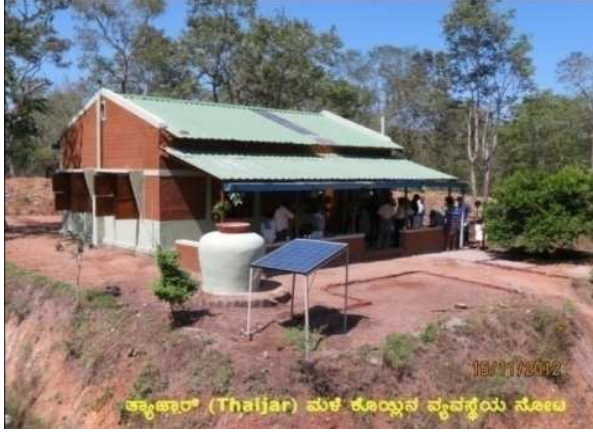




**Directorate of Municipal Administration  
Government of Karnataka**

**Training programme on "Green building concepts"  
for Engineers of ULBs**



**BATCH - 1**

**Implemented Schedule**

Date: 17.1.2019 to 19.1.2019

Venue: Hall No. 4, Nethravathi Hostel, SIUD, Mysuru

**Sri H Ramesha**

Course Director

Ph: 9481169733,

Email: hebbale@gmail.com

**Sri Vijesh K**

Course Assistant

Ph: 9538279253



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**Aim:**

1. To build concepts on Green, Healthy, Smart & Sustainable buildings that is for institution/ /Public Buildings/Government/Private/ULB Buildings etc;
2. To promote sustainability in planning, implementation, development & maintenance of Green buildings with optimum utilization of natural resources.
3. To equip participants with Skill and attitude towards efficient strategies to effective use of natural resources with sustainability.
4. To motivate the participants through sharing of knowledge, Innovations & advancements in Components of Green buildings practices, best practices/case studies/field exposure & to sensitize the participants in the field of natural resource management with design concepts of structures in Rain water harvesting, Recycling of waste water, generation of solar power, heating, Cooker, Bio-gas, SWM in Buildings etc;

**Objectives:**

After the completion of the 3 days programme, the participants will be able to

1. Explain the concepts on Green, Healthy, Smart & Sustainable buildings.
2. Describe the sustainability in planning, implementation, development & maintenance of Green buildings with optimum utilization of natural resources.
3. List advantages, Innovations & advancements in Components of Green building practices, with natural resource management in Rain water harvesting, Recycling of waste water, Generation of solar power, heating, Cooker, Bio-gas, SWM in Buildings etc;

**Course Methodology:**

1. Lecture/Presentation through PPTs
2. Videos
3. Case Studies.
4. Field/Exposure Visits
5. Group Discussions.

**Target Group:**

**Engineers** from Urban Local Bodies will be the participants of the training.

**Duration:**

The course is scheduled for 3 days (2.5 days of class room and ½ a day field visit).

## Schedule on Green building concepts

Time	Topics / Sessions	Resource Persons
<b>Day - 1      17.1.2019 (Thursday)</b>		
9.30 am to 10.15 am	Registration	<b>Sri Vijesh K</b> , Course Assistant
10.15 am to 10.30 am	<ul style="list-style-type: none"> <li>• Welcome</li> <li>• Key Note Address</li> <li>• Objectives</li> </ul>	<p><b>Sri Venkatesh Kadagadkai G</b>, Director, SIUD, Mysuru.</p> <p><b>Sri Ramesha H</b>, Course Director/Faculty, SIUD, Mysore.</p>
10.30 am to 12.45 pm	<p><b>Green Buildings:</b></p> <ul style="list-style-type: none"> <li>• Introduction</li> <li>• Parameters for GB</li> <li>• IGB standards</li> <li>• Relevant norms &amp; codes</li> <li>• Case studies</li> </ul>	<p><b>Sri Amith M C</b>, Associate counsellor, CII-IGBC, Hyderabad. Ph: 9886217289 E-mail: <a href="mailto:amith.mc@cii.in">amith.mc@cii.in</a></p>
<b>11.30 am to 11.45 am Tea Break</b>		
12.45 pm to 1.45 pm	<p><b>Sustainable smart buildings :</b></p> <ul style="list-style-type: none"> <li>• Features of smart buildings</li> <li>• Constructions</li> <li>• Sustainability</li> <li>• Bio-gas</li> <li>• RWH &amp; WWTP</li> <li>• Solar lighting</li> <li>• Kitchen garden</li> </ul>	<p><b>Sri Kikkeri Ramesh</b>, Consultant, V-LEAD, Mysore. Email: <a href="mailto:ramsudha2001@gmail.com">ramsudha2001@gmail.com</a> Ph: 9620543516</p>
<b>1.45 pm to 2.30 pm Lunch Break</b>		
02.30 pm to 05.45 pm	<p><b>Integrated water management and Re-cycling of waste water :</b></p> <ul style="list-style-type: none"> <li>• Basic issues &amp; challenges</li> <li>• Resource recovery &amp; conservation</li> <li>• Recycling of water &amp; Waste water management, Biology of Waste water</li> <li>• Micro to macro level Eco system approaches for sustainable solutions</li> <li>• Advanced treatment systems &amp; DEWATS with Case studies</li> </ul>	<p><b>Sri U.N Ravi Kumar</b>, Environmental Consultant, Mysuru. Ph. 0821-2544014 Email: <a href="mailto:unravi59@gmail.com">unravi59@gmail.com</a></p>

<b>Day - 2                      18.1.2019 (Friday)</b>		
9.30 am to 1.30 pm	<p><b>Rain Water Harvesting &amp; recharging :</b></p> <ul style="list-style-type: none"> <li>• Water- Availability and its importance, Challenges in water source, Water quality &amp; quantity issues.</li> <li>• Importance of Rain Water Harvesting, Methods of RWH, Drinking &amp; cooking water security through RWH, Types of filters and pipes used in RWH and its benefits, RWH case studies etc;</li> <li>• Importance of Ground Water Recharging and different technologies in Recharging of Borewells, Open wells with examples &amp; case studies etc;</li> </ul>	<p><b>Sri Ramesha H,</b> Course Director/Faculty, SIUD, Mysore. Ph.9481169733 Email : <a href="mailto:hebbale@gmail.com">hebbale@gmail.com</a></p>
<b>1.30 pm to 2.15 pm Lunch Break</b>		
2.15 pm to 6.30 pm	<p><b>Field visit :</b></p> <p>To witness RWH, Recharging, waste water Recycling, Bio gas generation, Energy efficiency lighting technics, Solar water heating &amp; heating systems, Manure preparation with compost plant, Bio-Diesel adopted sites etc;</p>	<p><b>Institute of Engineers,</b> JLB road, Mysuru. Ph. 0821-2421168</p> <p>And</p> <p><b>Sri Kikkeri Ramesh's</b> house, Consultant, V-LEAD, Mysore. Email: <a href="mailto:ramsudha2001@gmail.com">ramsudha2001@gmail.com</a> Ph: 9620543516</p> <p>And</p> <p><b>Sri Shamsundar S,</b> Director, NIE-CREST, Mysuru. Ph: 9972695511</p>
<b>Day -3                      19.1.2019 (Saturday)</b>		
09.30 am to 11.30 am	<p><b>Renewable Energy &amp; Conservation measures in green buildings:</b></p> <ul style="list-style-type: none"> <li>• Conservation Planning process</li> <li>• Solar grid – online &amp; off line</li> <li>• Energy Efficient Electric fittings,</li> <li>• Solar heating, Cooker &amp; lightings, timer, LED etc;</li> <li>• Energy auditing</li> <li>• O &amp; M in Solar &amp; LED lighting etc;</li> <li>• Case studies</li> </ul>	<p><b>Sri Dinesh Kumar D K,</b> Project Officer, KREDL, Mysuru. Ph.9480691046 E mail- <a href="mailto:dineshkredl@yahoo.co.in">dineshkredl@yahoo.co.in</a> <a href="mailto:kredlmysore@gmail.com">kredlmysore@gmail.com</a></p>
<b>11.30 am to 11.45 am Tea Break</b>		

11.45 am to 1.45 pm	<b>Construction practices in GB :</b> <ul style="list-style-type: none"> <li>• Planning of buildings wrt to lightings, ventilations and air conditioning</li> <li>• Soil cement bricks</li> <li>• (Arch) Foundation designs</li> <li>• Wall structures</li> <li>• Chula construction</li> <li>• Paintings/ Coatings</li> <li>• Heat resistant buildings</li> <li>• White topping</li> <li>• Case studies</li> </ul>	<b>Sri Rajesh Kumar Jain,</b> Rleef Architects & consultants, Mysuru. Ph: 9611454998/9886198698 E-mail: <a href="mailto:rleefmysore@gmail.com">rleefmysore@gmail.com</a>
<b>1.45 pm to 2.30 pm Lunch Break</b>		
2.30 pm to 4.30 pm	<b>Kitchen Garden :</b> <ul style="list-style-type: none"> <li>• Basic requirements</li> <li>• Types : <ul style="list-style-type: none"> <li>a) Roof garden</li> <li>b) Vertical garden etc;</li> </ul> </li> <li>• Monitoring and management</li> <li>• Nutrition</li> <li>• Case studies</li> </ul>	<b>Sri B K Gopala Krishna,</b> Consultant, Mysuru. Ph: 9449850363 E-mail: <a href="mailto:g_krishna56@yahoo.com">g_krishna56@yahoo.com</a>
<b>4.30 pm to 4.45 pm Tea Break</b>		
4.45 pm to 5.30 pm	<ul style="list-style-type: none"> <li>• Evaluation</li> <li>• Feedback</li> <li>• Valedictory</li> <li>• Vote of thanks</li> </ul>	<b>Sri Venkatesh Kadagadkai G,</b> Director, SIUD, Mysuru.  <b>Sri H. Ramesha,</b> Course Director/Faculty, SIUD, Mysuru.

Sd/-  
Course Director

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