INTRODUCTION

As mentioned in Flood Blog Adopt-a-Village -1, the intent is to create a Markaz Centre village which could act as the centre for a cluster of karigar villages. These karigar villages are skilled satellite villages will be engaged in making products related to sustainable construction as well as food production, each karigar village specializing in one product.

1. What is envisaged in establishing Satellite Karigar Villages.

The Markaz as a training centre and later also as hospitality village will continue to become productive and the livelihoods for the residents is likely to be assured. The karigar villages are being developed in order that many of the surrounding villages can benefit from the activities at the Markaz which will enable them to start their own income generating activities.

As a beginning karigar villages are being provided guidance for several enterprises. For details plz see my Pono Markaz Skilled Satellites (contd.) dated 16 September which lists several income generating activities, which lists can be expanded depending upon possibilities in a particular area.

- a. Green products: lime slaked bags, lime earth brick, earth brick
- b. Terracotta products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- c. Matting – ween chalai for various structures
- d. Roof thatching
- e. Mother Earth products: Reetha soap, Morenga powder, tikki cowdung and sawdust.
- f. Rearing chickens for eggs
- g. Fish farming where canals or pools of water available
- h. Making miscellaneous products: home made sanitary pads, using agricultural waste for products etc.
- i. Fodder for cattle – Azzolla or green fodder from corn
- j. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- k. Nursery and vegetable farming
- l. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- m. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- n. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- o. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- p. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- q. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- r. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- s. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- t. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- u. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- v. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- w. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- x. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- y. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.
- z. Bambo products – bamboo containers for vegetables, half scale LOG for children, instant roof and instant eco toilets etc.

The village will consist of average 60 households. Of course the size may vary according to location.

Accommodation and infrastructure for Markaz Centre Village?

A village of 60 households will require the following as well as meals as Maa ka Dastarkhwan for a month which will cost Rs. 300,000 and will enable villagers to complete the items that are being considered.

Phase 1

1.1 Basic requirements: sanitation, Pakistan Chulah, Potable water

- a. 60 instant roof shelters
- b. 30 Instant Eco Toilets (sharing basis)
- c. Earthen Pakistan Chulah (stove)
- d. Water handpumps (sharing basis 1/5 households)

<table>
<thead>
<tr>
<th>Instant roof</th>
<th>Instant Eco Toilet</th>
<th>Chulah</th>
<th>Handpump</th>
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<tbody>
<tr>
<td>60 Nos.</td>
<td>30 Nos.</td>
<td>60 Nos.</td>
<td>12 Nos.</td>
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<tr>
<td>Rs. 7,500</td>
<td>Rs. 5,500</td>
<td>Rs. 350</td>
<td>Rs. 20,000</td>
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1.2 Disaster Preparedness

a. Earthen stands 1 per household
   - For storing solar water
   - For storing food
   - For kitchen garden

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<thead>
<tr>
<th>Solar Water Stand</th>
<th>Food Water Stand</th>
<th>Kitchen Garden</th>
</tr>
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<tbody>
<tr>
<td>Rs. 500</td>
<td>Rs. 1,000</td>
<td>Rs. 1,500</td>
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b. Protective Elements – 3’ high Earth bund walls
   - Periphery wall to prevent water penetration
   - Aquifer trenches along boundary
   - Aquifer wells along boundary and in village

d. Periphery Elements – Community forests
   - Periphery native tree forests

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<thead>
<tr>
<th>Periphery Wall</th>
<th>Aquifer Trench</th>
<th>Aquifer Well</th>
<th>Community Forest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rs. 100,000</td>
<td>Rs. 300,000</td>
<td>Rs. 1,500</td>
<td>Rs. 10,000</td>
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</tbody>
</table>

1.3 Environmental improvement

a. Household trees
   - Saplings for planting 2 trees/household neem tree and lemon

b. Pathways
   - 3’ pathways for village household access

1.4 Children’s accommodation

a. 6 nos. Half scale LOG reading/play rooms for children
**Neem Tree**  
**Lemon Tree**  
**Pathways**  
**Half LOG**  

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<tr>
<td></td>
<td>Rs. 100</td>
<td>Rs. 100</td>
<td>Rs. 100 /ft</td>
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**PHASE II**

2.1 Improved Shelter  
   a. 60 emergency LOG shelter  
   b. 20 emergency eco toilets

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<tbody>
<tr>
<td>Emergency LOG</td>
<td>Emergency Toilet</td>
<td></td>
</tr>
<tr>
<td>60 Nos.</td>
<td>20 Nos.</td>
<td></td>
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<tr>
<td>Rs. 25,000</td>
<td>Rs. 15,000</td>
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2.2 Community gathering  
   a. Women’s Centre  
      \- Structure  
      \- Monitor/computer  
   b. Training provided by Pono Markaz (by artisans)  
      \- Emergency LOG fabrication  
      \- Mud/lime brick making  
      \- Compost making for solid waste from eco toilets

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<tbody>
<tr>
<td>Emergency LOG</td>
<td>Mud/lime brick</td>
<td>Composting bins</td>
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<tr>
<td>Rs. 25,000</td>
<td>Rs. 3 per brick</td>
<td>Rs. 5,000</td>
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2.3 Infrastructure  
   a. Solar Panels for village  
   b. 2 Cellphones: 1 for women’s committee, 1 for coordinator

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<tbody>
<tr>
<td>Solar Panels</td>
<td>Cellphones</td>
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<tr>
<td>Rs. 8,000</td>
<td>Rs. 15,000</td>
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