

# RDI CAMBODIA



## EARTH TANK SYSTEM

### Detailed View



**Rounding up Model!**



**Clear use for model!**



**Ball Tank Model!**

A frame is created and filled with dirt. As it's moistened and packed in, it begins to take form. A shaping tool is used to create the dirt sphere. This becomes the mold for Earth Tank hemispheres.



**Half Spere!**

Used cement bags are fitted over the dirt sphere and held in place by nails.  
(Nails go through the bags and into the packed mud.)  
Chicken wire is cut and wrapped over the sphere, so it fits snugly to the mold.  
(Over top the cement bags.)



**Apply Concrete!**

Standard cement mix is made and application to the mold begins.  
Cement is continually applied in several coats.



**Chicken wire pick tools!**

As cement is added, a tool is used to grab the chicken wire and pull it into the middle of the cement



**Apply Chicken wire!**



**Smoothing!**

The shaping tool is used to measure the correct thickness of the cement.  
 (The concave shaping tool is fitted on one end over the very top of the metal frame inside the mold to ensure a symmetrical sphere.)

4 small holes are made in the cement in order to later add the lifting hooks to the half-ton hemisphere.



**Ball Tank Building Activities!**



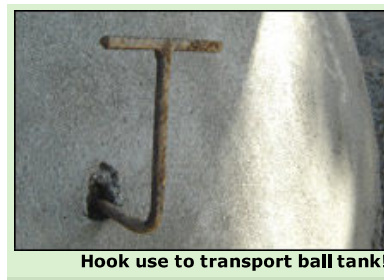
**Half-ton Hemisphere!**

The hemispheres are then allowed to harden.

The base is made in a similar fashion.



**Ball Tank Base!**



**Hook use to transport ball tank!**

To transport, hooks are inserted into the holes and the hoist is used to lift the sphere.



**Haft Hemispere!**



**Ball Tank Put to use!**



**Ball Tanks Views!**

Sphere's are loaded and taken to the location for assembly.&nbsp;



**Applying Cement on the outside!**

The two halves and a conclave base are put together and final sealing is accomplished.



**Clean water for ball tank**

Finally, spigots and pipes are fitted and a filtration device, if so desired, can be added.



**Installing Spigots!**



**Collecting Rainwater!**



**Collect rainwater!**

At this point, RDI staff teaches proper water collecting methods as well as maintenance instructions. In addition, regular return visits by RDI staff occurs to check on the spheres, answer questions and continue to educate families about water health and proper care of water. If this is not done, clean water may be delivered from the tank, but a dirty pot, bucket or pan might be used to collect the water. Water in a pan might be left outside overnight and drunk in the morning, etc.. RDI returns to the sites in a methodical ongoing manner to continue to educate families. RDI believes maximum impact will only occur with the fusion of education and relevant technology.

