











1. Activities of Sludge Characterization

Photograph	Caption
 	<p>Left: Flexible pipe is connected to the back wash out let of the arsenic iron removal plant</p> <p>Right: Sludge collection from lined pit of the arsenic iron removal plant</p>
	<p>Pure liquid back wash sludge was collected in large bucket</p>
	<p>Collected sludge has been transferred into large container from the bucket to transfer to the laboratory</p>
	<p>The back wash sludge was filtered in the water bath for collecting the solid part of the sludge</p>
	<p>the solid part of the sludge was dried at oven and tested for anions arsenic, calcium, iron manganese, magnesium and cations sulphate, phosphate, bicarbonate and silicate the dominating anions and cations of the ground water</p>











2. Activities of Follow up Controlled Plantation

Photograph			Caption
			Preparation of sample beds Left: Labeling of beds Middle: Preparation of the collected soils Right: Prepared beds
			Plantation Left: Weighted Red Amaranth Seeds Middle: Red Amaranth seeds are sowing Right: Arum plantation
			Grown Plants Left: The planted beds Middle: Red Amaranth leafy vegetables Right: Arum (after a week of plantation)
			Sample Collection Left: Arum cleaning before sample collection Middle: Red Amaranth sample collection Right: Collected leafy vegetable samples
			Sample Collection Left: Processing of red amaranth sample Middle: Preparation for processing Right: Sample processing for AAS analysis



3. Activities of Waste Disposal into Cow dung

Photograph	Caption
	Preparatory activities
	Weighting of cow dung
	Mixing of arsenic bearing sludge with cow dung
	Mixed sample (cow dung + sludge)

4. Activities of Mud Brick Preparation with Arsenic Bearing Sludge

Photograph	Caption
 	Brick Forma
 	<p>Left: Mud Clay</p> <p>Right: Mixing of Arsenic bearing sludge and Clay</p>
 	<p>Left: Clay + Sludge</p> <p>Right Arsenic bearing sludge and mud clay mixed semi solid mass processing</p>
 	Molding of semi solid mass for bricks preparation
 	Prepared bricks

5. Activities of Routine Sample Collection form study Technology Sites

Photograph	Caption
 A photograph showing two men standing on a concrete platform next to a brick-lined well. One man is using a long-handled tool to reach into the well, while the other is holding a container to collect the water.	Raw Water Sample Collection
 A photograph of a man in a yellow shirt crouching next to a concrete water tap. He is using a small container to collect water from the tap.	Treated Water Sample Collection
 A photograph showing a person standing in a shallow pond, using a tool to collect a sample of the bottom sediment (clay).	Pond Clay Sample Collection
 A photograph showing a group of people crouching on the ground in a field, collecting soil samples. They are surrounded by young trees and vegetation.	Soil sample collection around the study technology sites
 A photograph showing two people in a field of leafy vegetables. One person is standing and holding a plant, while the other is crouching and examining the leaves.	Leafy vegetable sample collection around the technology sites